COLOMBO

GRUPPO RAINA

COLOMBO

GRUPPO RAINA

GRUPPO RAINA

L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

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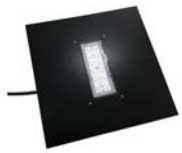
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A woman is the full circle. Within her is the power to create, nurture and transform.
(Diane Mariechild)



Everyone knew it was impossible until a fool who didn't know came along and did it.
(Albert Einstein)



Scientists discover the world that exists; engineers create the world that never was.
(Theodore von Kármán)

WHO WE ARE

GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.

GRUPPO RAINA
L'unione fa la luce.

IDEALLUX® Lookup COLOMBO

IT
CHI SIAMO
Il GRUPPO RAINA è il brand che raggruppa sotto lo stesso nome i marchi: IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. COLOMBO marchio specifico per gli apparecchi stradali, arredo urbano e da esterno. LOOKUP® con la sua nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
QUI SOMMES-NOUS
GRUPPO RAINA est le brand qui rassemble sous le même nom les marques IDEALLUX® appareilles pour l'industrie et le tertiaire, COLOMBO gamme routier et d'extérieur et LOOKUP® appareilles décoratifs.

ES
QUIEN SOMOS
GRUPPO RAINA es la marca que reúne bajo el mismo nombre a las marcas IDEALLUX® luminarias para la industria y servicios, **COLOMBO** luminarias viales y de exterior y **LOOKUP** luminarias decorativas.

DE
WER WIR SIND
GRUPPO RAINA ist das Brandmal, das unter der gleichen Name die Marke gruppiert: IDEALLUX® Historische Produktion, spezialisiert auf den Bau und Verkauf von Leuchten für den Industrie- und Dienstleistungssektor. **COLOMBO** spezifische Marke für Straßen- und Outdoor-Leuchten. **LOOKUP®** neue und breite Linie von dekorativen und architektonischen Leuchten.

RU
O HAC
GRUPPO RAINA является брендом, включающим в себя следующие марки: IDEALLUX® является знаменитым производством, специализирующемся на изготовлении и продаже осветительных приборов, предназначенных для промышленного сектора и сферы услуг. **COLOMBO** – это марка, разрабатывающая уличные осветительные приборы и уличное оборудование. **LOOKUP®** представляет собой новую широкую гамму декоративных и архитектурных осветительных приборов.

COMPANY HISTORY

1987 › IDEALLUX® was founded in 1987 by the will of Claudio Raina. Born as an artisan company producing lighting equipment, to become in a few years one of the most important producers in the lighting sector.

2011 › In 2011 the transition from traditional sources takes place, while LED technology is being developed. IDEALLUX® launches a catalogue exclusively dedicated to LED lighting fixtures, alongside the well-established fluorescence product catalogue.

2017 › Marked the milestone of 30 years of activity. The Fuorisalone 2017 - Via Tortona - Milan was the perfect location to celebrate this important stage, presenting the IDEALLUX® products with a new look.

2018 › On the occasion of Light + Building in Frankfurt, the most prestigious lighting fair on the international scene, IDEALLUX® presents the new Gruppo Raina to the lighting world. Gruppo Raina is the brand that brings together the IDEALLUX®, Lookup and Colombo brands under the same name.

GRUPPO RAINA
L'unione fa la luce.

IT

LA STORIA

IDEALLUX® viene fondata nel 1987 per volontà di Claudio Raina. Nasce come azienda artigiana di produzione di apparecchi di illuminazione, per divenire in pochi anni un'importante realtà industriale del settore dell'illuminazione. Nel 2011 avviene il passaggio dalle fonti tradizionali alle nuove tecnologie LED. IDEALLUX® lancia un catalogo dedicato esclusivamente ad apparecchi di illuminazione LED, affiancandolo all'ormai consolidato catalogo di prodotti fluorescenza. Il 2017 ha segnato il traguardo dei 30 ANNI di attività. Il Fuorisalone 2017 - Via Tortona - Milano è stata la location perfetta per festeggiare questa importantissima tappa, presentando i prodotti IDEALLUX® con una nuova veste. Nel 2018, in occasione di Light+Building, la più prestigiosa fiera dell'illuminazione nel panorama internazionale, IDEALLUX® presenta al mondo del lighting il nuovo Gruppo Raina. Gruppo Raina è il brand che raggruppa sotto lo stesso nome i marchi IDEALLUX®, Lookup e Colombo.

FR

HISTOIRE

IDEALLUX® est fondé en 1987 pour volonté de Claudio Raina. Naît comme usine artisanale de production des appareilles d'éclairage, pour devenir après quelques années une importante réalité industrielle du secteur d'éclairage. En 2011 arrive le passage des sources traditionnelles aux nouvelles technologies LED. IDEALLUX® lance un catalogue exclusivement dédié aux appareilles d'éclairage LED, a couté du consolidé catalogue produits fluorescence. Le 2017 a marqué la ligne d'arrivée des 30 ANS d'activité. Le Fuorisalone 2017 près de Via Tortona en Milan a été en endroit parfaite pour célébrer cette importante étape en présentant les produits IDEALLUX® avec un nouveau vêtement. En 2018, pendant la foire Light+Building, la plus prestigieuse concernant l'éclairage dans le panorama international, IDEALLUX® présente au monde du Lightning le nouveau Gruppo Raina. Groupe Raina est le brand qui groupe sous le même nom les marques IDEALLUX®, Lookup et Colombo.

ES

HISTORIA

IDEALLUX® fue fundada en 1987 por voluntad de Claudio Raina. Nace como una empresa artesanal que produce aparatos de iluminación, para convertirse en pocos años en una realidad industrial importante en el sector de la iluminación. En 2011 se lleva a cabo la transición de las fuentes tradicionales de iluminación a las nuevas tecnologías LED. IDEALLUX® lanza un catálogo dedicado exclusivamente a los aparatos de iluminación LED, uniendolo con el ya bien consolidado catálogo de productos de fluorescencia. 2017 marcó el hito de 30 años de actividad. El Fuorisalone 2017 - Via Tortona - Milán fue el lugar perfecto para celebrar esta importantisima etapa, presentando los productos IDEALLUX® con un nuevo look. En 2018, con motivo de Light + Building, la feria de iluminación más prestigiosa de la escena internacional, IDEALLUX® presenta el nuevo Gruppo Rainaal mundo de la iluminación. Gruppo Raina es la marca que agrupa a las marcas IDEALLUX®, Lookup y Colombo bajo el mismo nombre.

DE

DIE GESCHICHTE

Geboren als handwerkliches Unternehmen, das Beleuchtungsgeräte herstellt, um in wenigen Jahren eine wichtige industrielle Realität in der Beleuchtungsbranche zu werden. Im Jahr 2011 findet der Übergang von traditionellen Quellen zu neuen LED-Technologien statt. Neben dem bekannten Fluoreszenz-Produktkatalog führt IDEALLUX® einen Katalog ein, der sich ausschließlich mit LED-Beleuchtungsgeräten befasst.. 2017 war der Meilenstein von 30 Jahren Aktivität. Die Fuorisalone 2017 - Via Tortona - Mailand war der perfekte Ort, um diese wichtige Etappe zu feiern und die IDEALLUX® Produkte mit einem neuen Look zu präsentieren. Im Jahr 2018 präsentiert IDEALLUX® anlässlich der Light + Building, der prestigeträchtigsten Lichtmesse der internationalen Szene, die neue Raina Group der Lichtwelt. Gruppo Raina ist die Marke, die die Marken IDEALLUX®, Lookup und Colombo unter demselben Namen vereint.

RU

ИСТОРИЯ

Идеаллюкс была основана в 1987 году Клаудио Раина. Она изначально являлась ремесленной мастерской по производству осветительного оборудования, которая вскоре переросла в важнейшую промышленную компанию в осветительной отрасли. В 2011 году произошёл переход от традиционных источников к новых технологиям СИД. Идеаллюкс выпускает каталог, посвящённый исключительно осветительному оборудованию СИД, который сосуществует с уже устоявшимся каталогом флуоресцентных продуктов. В 2017 году компания отметила 30 ЛЕТ успешной работы. Fuorisalone 2017 – Улица Tortona – Милан было идеальным местом для празднования этого важнейшего этапа и представления продуктов Идеаллюкс в новом обличье. В 2018 году по случаю Light+Building, самой престижной осветительной выставки на мировой арене, Идеаллюкс представила новую Группу Raina. Группа Raina является брендом, который объединяет под одним именем марки IDEALLUX®, Lookup и Colombo.

MISSION

The group's mission is the design and production of lighting systems characterized from high technology and very good performance, totally made at the Cilavegna plant in the Province of Pavia and certified 100% Made in Italy. The Gruppo Raina obtained the Certification ISO 9001: 2008 and the 100% Made in Italy Certification issued by the Institute for the Protection of Italian Manufacturers. The numbers of the group can explain the capacity of it: 12.000 square meters of production plant, 7.000 sqm of warehouse, 100 resources employed and more than 3.800 active customers.



IT

MISSION

Il gruppo ha come mission la progettazione e la produzione di sistemi di illuminazione, caratterizzati da un'elevata tecnologia e da un ottimo rendimento, totalmente realizzati nello stabilimento di Cilavegna, in Provincia di Pavia e certificati 100% Made in Italy. Gruppo Raina vanta tra le certificazioni ottenute la certificazione ISO 9001:2008 e la certificazione 100% Made in Italy rilasciata dall'Istituto Per la Tutela dei Produttori Italiani. I numeri del gruppo riassumono le capacità dello stesso, con i suoi 12.000 mq di stabilimento produttivo, 7.000 mq di magazzino, 100 risorse impiegate e oltre 3.800 clienti attivi.

FR

MISSION

Le groupe a comme mission le projet et la production de systèmes d'éclairage, réalisé dans l'usine de Cilavegna, dans la province de Pavie et certification 100% made en Italy. Certification ISO 9001:2008 Certification 100% Made en Italy relâché par l'institut pour la Tutelle des Producteur Italiens. LE NOMBRES: 12.000 mq d'usine productive. 7.000 mq de magasin.100 ressources employées.3.800 clients actifs.

ES

MISSION

El grupo tiene como misión el diseño y producción de sistemas de iluminación, fabricados en la p certificaciones. la certificación iso 9001: 2008 certificación 100% made in italy emitida por el instituto para la protección de fabricantes italianos lanta de cilavegna, en la provincia de pavia y certificados 100% made in italy. los numeros: 12.000 mq de planta de producción, 7.000 mq de almacén, 100 recursos utilizados, 3.800 clientes activos.

DE

MISSION

Die Gruppe hat sich zum Ziel gesetzt, Beleuchtungssysteme zu entwerfen und zu produzieren, die sich durch Hochtechnologie und hervorragende Leistung auszeichnen. Sie werden vollständig im Werk von Cilavegna in der Provinz Pavia hergestellt und sind zu 100% Made in Italy zertifiziert. Die Gruppo Raina hat unter den Zertifizierungen die ISO 9001: 2008-Zertifizierung und die 100% Made in Italy-Zertifizierung des Instituts zum Schutz italienischer Hersteller erhalten. Die Zahlen der Gruppe fassen die Kapazität derselben mit 12.000 Quadratmetern Produktionsanlage, 7.000 Quadratmetern Lagerhalle, 100 Mitarbeitern und mehr als 3.800 aktiven Kunden zusammen.

RU

МИССИЯ

Миссия группы заключается в проектировании и производстве осветительных систем, характеризующихся высокими технологиями и отличной эффективностью. Они производятся исключительно на заводе в городе Чилавенья в провинции Павия и имеют сертификаты 100% Сделано в Италии (100% Made in Italy). Группа Raina гордится наличием сертификата ISO 9001:2008 и сертификата 100% Сделано в Италии (100% Made in Italy), который был выдан Институтом по защите прав итальянских производителей. Приведённые ниже цифры показывают возможности группы: 12.000 м2 производственного предприятия, 7.000 м2 складских помещений, 100 человек рабочего персонала и более 3.800 активных клиентов.

QUALITY

With a view to customer satisfaction and service optimization, IDEALLUX® has put in place quality control processes with the aim of limiting defectiveness, which has been less than 1% (ISO statistical data of the last three years).



IT
QUALITÀ
Nell'ottica della soddisfazione del cliente e dell'ottimizzazione del servizio, IDEALLUX® ha messo in atto processi di controllo qualità con l'obiettivo di limitare la difettosità, che si è attestata ad una percentuale inferiore all'1% (dato statistico ISO degli ultimi tre anni).

FR
QUALITÉ
Dans l'optique de la satisfaction du client et de l'optimisation du service, IDEALLUX® a mis en cours un procès de contrôle qualité avec l'objectif de limiter la défectuosité qui sont attestés à une pourcentage inférieure au 1 % (info statistique ISO des derniers trois ans).

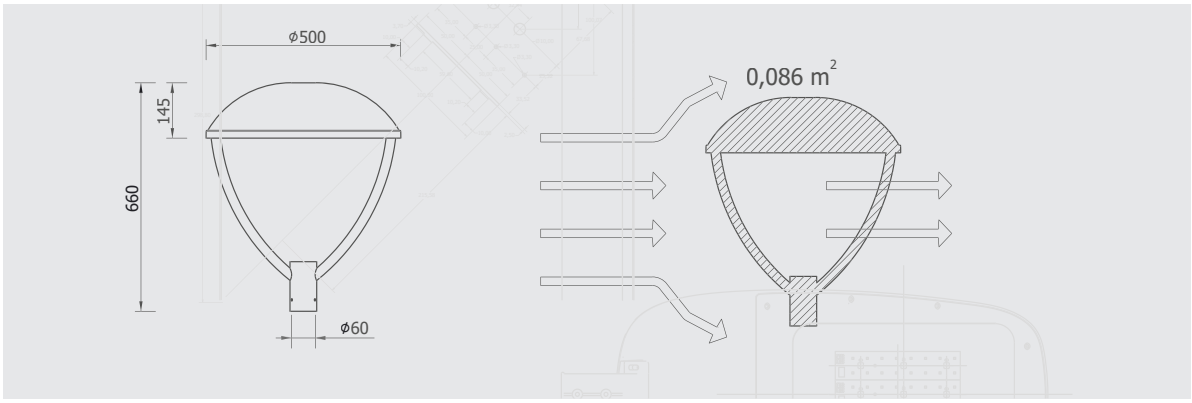
ES
CALIDAD
Con muras a la satisfacción del cliente y la optimización del servicio, IDEALLUX® ha puesto en marcha procesos de control de calidad con el objetivo de limitar la defectuosidad, que ha alcanzado un porcentaje inferior al 1% (datos estadísticos ISO de los últimos tres años).

DE
QUALITÄT
Im Hinblick auf Kundenzufriedenheit und Serviceoptimierung hat IDEALLUX® Qualitätskontrollprozesse eingeführt, um den Fehler zu begrenzen, der einen Prozentsatz von weniger als 1% erreicht hat (ISO-Statistikdaten der letzten drei Jahre).

RU
КАЧЕСТВО
С учётом удовлетворения запросов клиентов и оптимизации обслуживания, Идеаллюкс внедрила процесс управления качеством с целью уменьшения дефектов производства, которые не превышают 1% (данные статистики ISO за последнии три года).

RESEARCH & DEVELOPMENT

The data acquisition, market's needs and demands are essential for the proper focus of the idea and development of the project. The wide technical IDEALLUX® structure with its many functions and skills, guarantees the optimization of product design process: starting from the industrial cost evaluation to the overall quality of the product. All the different steps of the design project are managed within the company. Through use of advanced software, the highly qualified IDEALLUX® staff develops, analyzes and designs the product in all its parts. This design process ends with the production of a prototype, tested in the internal photometric laboratory. Thanks to its ability to adapt the product to customer requirements, IDEALLUX® is specialized in the creation of "CUSTOM MADE PRODUCTS".



IT

RICERCA E SVILUPPO

In un progetto la fase di acquisizione dei dati, delle necessità e dei gusti del mercato diventa essenziale per la corretta messa a fuoco dell'intero processo ideativo. La struttura tecnica di IDEALLUX®, vasta e integrata nelle sue funzioni e competenze, garantisce l'ottimizzazione del processo progettuale: dalla valutazione del costo industriale alla qualità globale del prodotto. Tutti i processi inerenti alla progettazione vengono gestiti all'interno dell'azienda. La progettazione viene realizzata da personale altamente qualificato che, attraverso l'utilizzo di software avanzati, sviluppa, analizza e progetta il prodotto in tutte le sue parti. La realizzazione di un prototipo, testato nel laboratorio fotometrico, è la parte conclusiva di questo processo. IDEALLUX® è specializzata nella creazione di apparecchi CUSTOM proprio grazie alla capacità di adattare il prodotto alle esigenze del cliente.

FR

RECHERCHE ET DÉVELOPPEMENT

Dans un projet, il est essentiel d'acquérir les données, les besoins et les goûts du marché pour pouvoir correctement mettre en application le processus de conception dans toute son intégralité. La structure technique de IDEALLUX®, vaste et intégrée dans ses fonctions et compétences, garantit l'optimisation du
processus d'élaboration : de l'évaluation du coût industriel à la qualité globale du produit. La conception du projet est réalisée par un personnel hautement qualifié qui, grâce à l'utilisation de logiciels d'avant-garde, développe, analyse et réalise entièrement le produit. La réalisation d'un prototype, testé en laboratoire photométrique, est la dernière phase de ce processus. IDEALLUX® est spécialisée dans la création d'appareil CUSTOM grâce essentiellement à ses capacités d'adapter le produit aux exigences du client.

ES

INVESTIGACIÓN Y DESARROLLO

En un proyecto la fase de adquisición de datos, de necesidades y de gustos del mercado se vuelve esencial para el correcto enfoque de todo el proceso creativo. La estructura técnica de IDEALLUX®, vasta e integrada en sus funciones y competencias, garantiza la optimización del proceso de diseño: desde la evaluación del coste industrial a la calidad global del producto. Todos los procesos inherentes al diseño se gestionan en el interior de la empresa. Toda la fase de diseño es realizada por personal altamente cualificado que, a mediante el uso de softwares avanzados, desarrolla, analiza y diseña el producto en su total concepción. La realización del prototipo, probado en el laboratorio fotométrico, es la parte final de este proceso. IDEALLUX® se especializa en la creación de luminarias personalizadas justamente gracias a la capacidad de adaptar el producto a las exigencias del cliente.

DE

FORSCHUNG UND ENTWICKLUNG

Ausschlaggebende Faktoren für ein erfolgreiches Projekt sind die Bestimmung eines vollständigen Anforderungsprofils des Marktes hinsichtlich dessen Wünsche und Erwartungen, des aktuellen schmacks, der geforderten technischen Notwendigkeiten sowie die entsprechende korrekte Analyse der akquirierten Daten. Die Betriebsorganisation von IDEALLUX® vereint alle dazu notwendigen Funktionen und Kompetenzen, von der Kostenkalkulation bis zur Sicherstellung eines qualitativ hochwertigen Endprodukts, so daß unter Ausnutzung aller möglichen Synergien der verschiedenen Abteilungen das Konzept "alles aus einer Hand" in ein harmonisches Gesamtergebnis umgesetzt wird. Die Konstruktion wird von hochqualifiziertem Personal durchgeführt, das, durch den Einsatz von fortschrittlicher Software, das Produkt in alle seinen Teilen entwickelt, analysiert und entwirft. Die Realisierung eines Prototyps, das im photometrischen Labor getestet wird, ist die letzte Teil dieses Prozesses. IDEALLUX® hat sich auf die Erstellung von CUSTOM - Geräten spezialisiert, danke an Ihrer Fähigkeit, das Produkt an die Kundenbedürfnisse anzupassen.

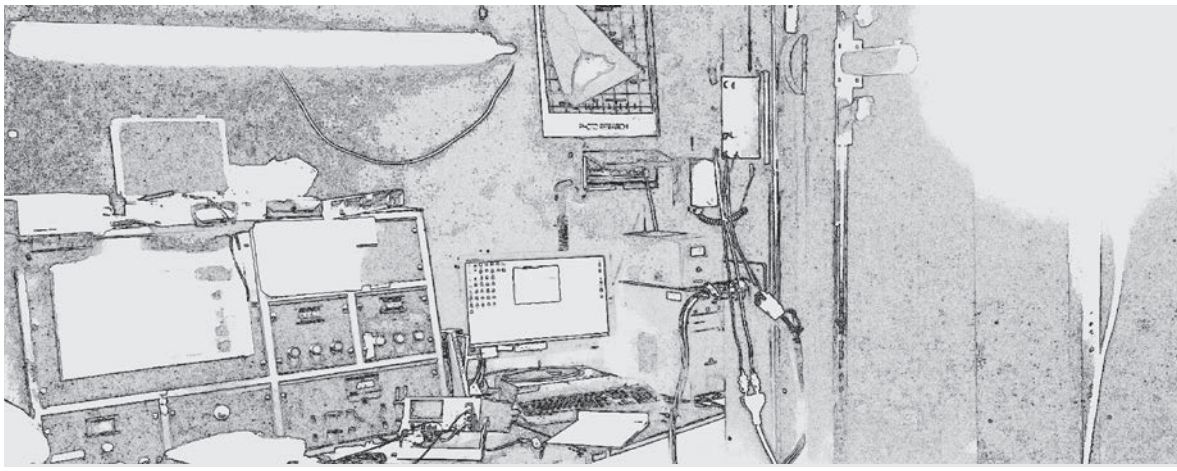
RU

ИССЛЕДОВАНИЯ И РАЗРАБОТКИ

Сбор данных, потребности и требования рынка имеют важное значение для правильной направленности идеи и развития проекта. Широкая техническая структура IDEALLUX® с ее многочисленными функциями и навыками гарантирует оптимизацию процесса проектирования продукта: от оценки производственных затрат до общего качества продукта. Все различные этапы дизайн-проекта управляются внутри компании. Благодаря использованию передового программного обеспечения высококвалифицированный персонал IDEALLUX® разрабатывает, анализирует и проектирует продукт во всех его частях. Этот процесс проектирования заканчивается производством прототипа, испытанного во внутренней фотометрической лаборатории. Благодаря своей способности приспосабливать продукт к требованиям клиента, IDEALLUX® специализируется на создании «ИЗДЕЛИЙ ИЗ ИЗГОТОВЛЕНИЯ».

MEASURES & TEST

During prototyping phase IDEALLUX® carries out all the preventive controls of security, quality and conformity according to sector norms. In according to norm EN60598, IDEALLUX® performs a wide range of tests as the thermal resistance test (realized through the controls of each single component), the IP and IK resistance tests (to analyze how the mechanical structure reacts to external stresses), salt spray (fog) test (to check the resistance of the external surfaces). Thanks to the internal photometric laboratory IDEALLUX® can make many optic tests on the fixture, according to norm UNI EN13032, generate photometric curve and extend its range of products through the optimization of optics and flow recovery devices.



IT

MISURE E PROVE

è nella fase di prototipazione che IDEALLUX® svolge tutti i controlli preventivi sulla sicurezza, qualità, conformità, in relazione alle principali norme di settore. In conformità alla normativa EN 60598 vengono eseguite prove di resistenza termica, attraverso il controllo capillare dei singoli componenti interni, prove di resistenza a IP e IK, attraverso le quali si analizza il comportamento della struttura meccanica alle sollecitazioni esterne, e prove in nebbia salina per verificare la tenuta delle superfici esterne. Grazie al supporto del proprio laboratorio fotometrico, IDEALLUX® può effettuare i più svariati test ottici sugli apparecchi, in conformità alla normativa UNI EN13032, realizzare le curve fotometriche e ampliare la gamma di prodotti attraverso l'ottimizzazione delle ottiche e dei recuperatori di flusso.

FR

MESURES ET TEST

Pendant la phase de réalisation du prototype IDEALLUX® réalise tous les contrôles préalables en termes de sécurité, qualité, conformité, selon les principales normes du secteur. Conformément aux normes EN 60598 des tests de résistance thermique sont effectués par le biais du contrôle minutieux de chaque composant interne, test de résistance à IP et IK, au travers desquels on analyse le comportement de la structure mécanique contre les aggressions climatiques de toute sorte, et des essais en brouillard salin pour vérifier la tenue des superficies externes. Grâce au support de son propre laboratoire photométrique, IDEALLUX® peut effectuer toutes sortes de test optiques sur les appareils, conformément aux normes UNI EN13032, réaliser des courbes photométriques et élargir la gamme de produits à travers l'optimisation des optiques et des récupérateurs de flux.

ES

MEDIDAS Y PRUEBAS

Es en la fase de creación del prototipo en la que IDEALLUX® lleva a cabo todos los controles preventivos de seguridad, calidad y conformidad, en relación a las principales normas del sector. De acuerdo con la normativa EN 60598 se ejecutan pruebas de resistencia térmica, mediante el control riguroso de cada uno de los componentes internos, pruebas de resistencia a IP e IK, a través de las cuales se analiza el comportamiento de la estructura mecánica a las tensiones externas, pruebas en niebla salina que verifican la resistencia de las superficies externas. Gracias al apoyo del propio laboratorio fotométrico, IDEALLUX® puede efectuar las más variadas pruebas ópticas en las luminarias, de acuerdo con las normativa UNE EN13032, realizar las curvas fotométricas y ampliar la gama de productos a través de la optimización de las ópticas y de los recuperadores de flujo.

DE

MESSUNGEN UND VERSUCHE

Bereits bei der Projektierung als auch im Prototypstadium kontrolliert und optimiert IDEALLUX alle Aspekte hinsichtlich der Qualität, Sicherheit und Konformität gemäß der herrschenden Normen. Der Norm EN60598 folgend, werden die thermische Widerstandsfähigkeit der einzelnen Bestandteile als auch des ganzen Produkts geprüft. Es folgen die Tests zu den Schutzarten IP und dem Schlagschutz IK, die die mechanischen Eigenschaften des Artikels auf die Umgebungsbedingungen kontrollieren, sowie die Prüfung im Salznebel und weiteren von den Normen vorgesehenen Eigenschaften. Dank der Unterstützung seines photometrischen Labors, der Norm EN60598 folgend kann IDEALLUX® unterschiedlichste optische Tests an den Geräten durchführen, die photometrischen Kurven und erweitern die Produktpalette durch die Optimierung der Optik und Strömungsrekuperatoren realisieren.

RU

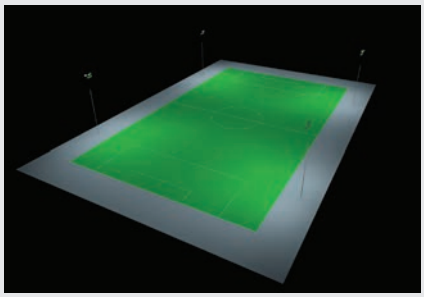
МЕРЫ И ТЕСТ

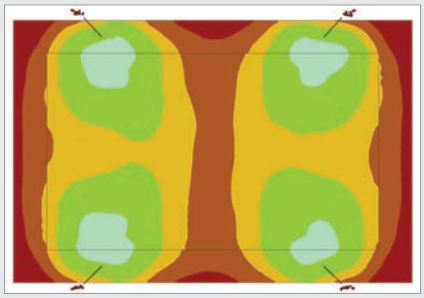
На этапе создания прототипа IDEALLUX® проводит все профилактические проверки безопасности, качества и соответствия в соответствии с отраслевыми нормами. В соответствии с нормой EN60598, IDEALLUX® выполняет широкий спектр испытаний, таких как испытание на тепловое сопротивление (реализуемое посредством контроля каждого отдельного компонента), испытания на сопротивление IP и IK (чтобы проанализировать, как механическая структура реагирует на внешние напряжения), соль испытание на распыление (туман) (для проверки сопротивления внешних поверхностей). Благодаря внутренней фотометрической лаборатории IDEALLUX® может проводить множество оптических испытаний прибора, в соответствии с нормой UNI EN13032, генерировать фотометрическую кривую и расширять ассортимент своей продукции за счет оптимизации оптики и устройств восстановления потока.

CUSTOMER SERVICE

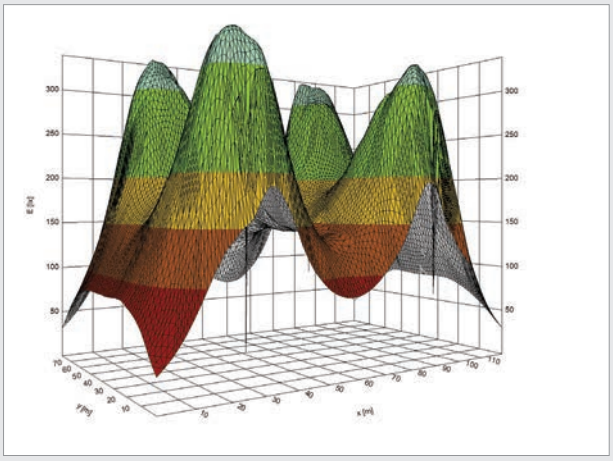
IDEALLUX® provides its customers and designers the lighting calculation service assistance. Using advance software it is possible:

- To examine the photometric characteristics of fixture for a proper application.
- To elaborate and calculate detailed lighting levels and light uniformity on work surface.
- In lighting calculations there are average lighting values (Isolux curves).
- The photometric curves are available on website www.ideallux.it.





Light simulation



IT

ASSISTENZA CLIENTI

IDEALLUX® fornisce ai suoi clienti ed ai progettisti, il servizio di assistenza alla progettazione illuminotecnica. Mediante l'utilizzo di software avanzati è possibile:

- consultare le caratteristiche fotometriche dell'apparecchio per un'idonea applicazione
- elaborare e calcolare nel dettaglio il livello di illuminamento e di uniformità sui piani di lavoro.
- Negli elaborati ottenuti, sono presenti valori di illuminamento medio (curve isolux).
- Le fotometrie sono disponibili sul sito www.ideallux.it

FR

ASSISTANCE ET CONTRÔLES TECHNIQUES D'ÉCLAIRAGE

IDEALLUX® fournit à ses clients et aux concepteurs le service d'assistance au projet d'éclairage. Grâce à l'utilisation de logiciels à l'avant-garde il est possible de :

- consulter les caractéristiques photométriques de l'appareil pour une application appropriée
- élaborer et calculer en détail le niveau d'éclairement et d'uniformité sur les plans de travail.
- de consulter les valeurs d'éclairement moyenne (courbes isolux) figurant dans les textes élaborés
- de visionner les photométries disponibles sur le site www.ideallux.it.

ES

ASISTENCIA Y CONTROLES LUMINOTÉCNICOS

IDEALLUX® provee a sus clientes y a sus diseñadores, el servicio de asistencia en el diseño luminotécnico. Mediante el uso de un software avanzado es posible:

- consultar las características fotométricas de las luminarias para un uso óptimo.
- elaborar y calcular en detalle el nivel de iluminación y de uniformidad de los esquemas de trabajo.
- en los resultados obtenidos, se hallan presentes los valores de iluminación medios (curvas isolux).
- las fotometrías están disponibles en el sitio www.ideallux.it.

DE

KUNDENBETREUUNG UND LICHTTECHNISCHE KONTROLLE

IDEALLUX® bietet ihren Kunden und Planern einen Service für eine lichttechnische Kontrolle des eigenen Projekts.
Durch Mithilfe von modernster Software ist es möglich:

- das Nachschlagen der photometrischen Eigenschaften eines bestimmten Artikels zu konsultieren
- die detaillierte Berechnung und Auslegung der Lichtausbeute und der gleichmäßigen Lichtverteilung auf den betroffenen Ebenen
- die tabellarische Aufstellung der errechneten Lichtkennwerte mit mittlerer Beleuchtungsstärke, Isolux-Kurven pro Raum usw.
- die Photometrie sind auf die Web-site www.grupporaina.it verfügbar

RU

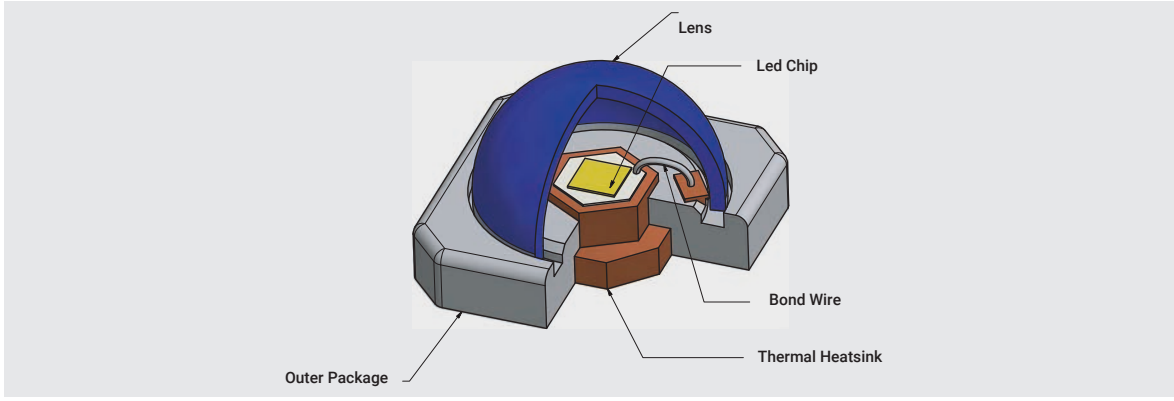
ОБСЛУЖИВАНИЕ КЛИЕНТОВ

IDEALLUX® предоставляет своим клиентам и дизайнерам помощь в проектировании освещения. Благодаря использованию современного программного обеспечения возможно:

- обратитесь к фотометрическим характеристикам прибора для соответствующего применения
- разработать и детально рассчитать уровень освещенности и равномерности рабочих планов.
- В полученных работах представлены средние значения освещенности (кривые изолюкс).
- Фотометрия доступна на сайте www.ideallux.it

LED: WHAT AND HOW IT WORKS

LED is the acronym for LIGHT EMISSION DIODE. This is an optoelectronic device, which uses the optical properties of some semiconductor materials to emit light when electrical current passed through them. The LEDs for lighting are realized starting from one diode, which is able to emit blue light, onto which a fluorescent layer is applied (normally phosphorous) which converts the light source into white light. The combination of different semiconductor materials of the basic diode and the type of the applied fluorescent material creates LED with colour temperature from 2700 K to 6500 K and high colour rendering (up to CRI>90). Development and research applied to LEDs have enabled this technology to be the real alternative to traditional light sources in both light quantity and quality.



IT

LED: COS'È E COME FUNZIONA

La sigla LED è l'acronimo inglese di Light Emitting Diode, diodo a emissione luminosa.Si tratta di un dispositivo optoelettronico che sfrutta le proprietà ottiche di alcuni materiali semiconduttori di emettere luce blu quando attraversati da una corrente elettrica. I LED utilizzati nell'illuminazione sono realizzati partendo da un diodo in grado di emettere luce blu su cui è applicato uno strato fluorescente (normalmente fosforo) che converte la fonte luminosa in luce bianca.La combinazione di differenti materiali semiconduttori del diodo di base e il tipo di materiale fluorescente applicato, consentono di creare LED con temperatura colore da 2700K a 6500K ed elevata resa cromatica (fino a CRI>90). Sviluppo e ricerca applicate ai LED hanno portato questa tecnologia ad essere la reale alternativa alle fonti di illuminazione tradizionali sia per quantità che per qualità della luce.

FR

QU'EST-CE QU'UNE LED ? COMMENT FONCTIONNE UNE LED

XUne LED, acronyme de Light Emitting Diode (diode électroluminescente). Il s'agit d'un dispositif exploitant les propriétés optiques de certains matériaux semi-conducteurs qui émettent de la lumière bleue lorsqu'ils sont traversés par un courant électrique. Les LED utilisées pour l'illumination sont réalisées à partir d'une diode pouvant émettre une lumière bleue sur laquelle une couche fluorescente est appliquée (normalement du phosphore) qui transforme la source lumineuse en une lumière blanche. La combinaison entre différents matériaux semiconducteurs de la diode de base et le type de matériel fluorescent appliqué, permettent de créer des LED ayant une température de couleur de 2700K à 6500K et un rendement chromatique élevé (jusqu'à CRI>90). Le développement et la recherche appliqués aux LED font de cette technologie une alternative réelle aux sources éclairage traditionnelles aussi bien en termes de quantité que de qualité de la lumière.

ES

LED: QUÉ ES Y CÓMO FUNCIONA

XLa sigla LED es el acrónimo inglés de Light Emitting Diode, diodo emisor de luz. Se trata de un dispositivo optoelectrónico que aprovecha las propiedades ópticas de algunos materiales semiconductores que emiten luz azul cuando son atravesados por una corriente eléctrica. Los leds utilizados en la iluminación se realizan a partir de un diodo capaz de emitir luz azul, sobre el cual se aplica una capa fluorescente (normalmente fósforo) que convierte la fuente luminosa en luz blanca. La combinación de los diferentes materiales semiconductores del diodo de base y el tipo de material fluorescente aplicado, permiten crear leds con temperatura de color desde 2700K a 6500K y elevado rendimiento cromático (hasta CRI>90). El desarrollo y las investigaciones aplicadas a los leds llevan a esta tecnología a ser una verdadera alternativa a las fuentes de iluminación tradicionales, tanto en términos de cantidad como de calidad de la luz.

DE

LED: BESCHREIBUNG UND FUNKTION

Der Begriff LED ist eine Abkürzung und bedeutet im englischen "Light Emitting Diode", zu Deutsch Licht emittierende Diode. Das optoelektronische Bauteil nutzt die Eigenschaften bestimmter Halbleitermaterialien, bei Stromdurchfluß Lichtstrahlen auszusenden. Die in der Beleuchtungstechnik üblichen LEDs bauen auf einer Diode auf, die blaues Licht abstrahlt. Auf diese Diode ist eine fluoreszierende Schicht aufgebracht (meist Phosphor), die das ausgehende blaue Licht in weißes Licht umwandelt. Die Kombinationen aus verschiedenen Halbleitermaterialien der Basisdiode sowie der aufgebrachten fluoreszierenden Schicht ermöglicht die Herstellung von LEDs mit unterschiedlichen Farbtemperaturen von 2700 K bis 6500 K und mit besonders hohem Farbwiedergabeindex R (CRI, bis > 90). Die intensive Forschung und Entwicklung im Bereich der LEDs führten dazu, daß diese Technologie heute eine echte Alternative zu den herkömmlichen Leuchtmitteln darstellt und vergleichbare Lichtmengen und Lichtqualität bieten kann.

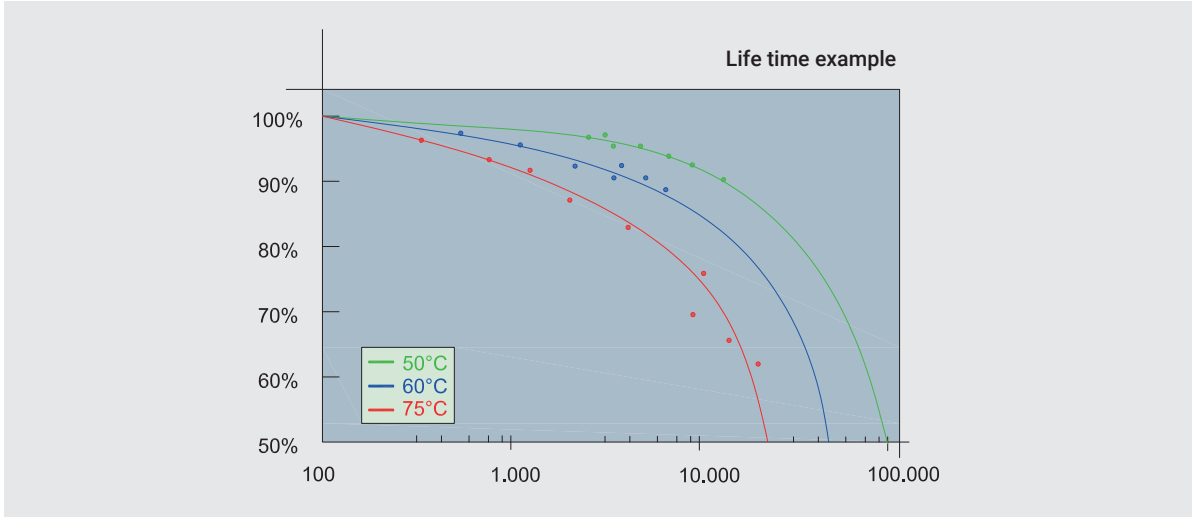
RU

LED: ЧТО ТАКОЕ И КАК ЭТО РАБОТАЕТ

Аббревиатура LED - это английская аббревиатура «Светоизлучающий диод», оптоэлектронное устройство, использующее оптические свойства некоторых полупроводниковых материалов для излучения синего света при пересечении электрическим током. Светодиоды, используемые в освещении, сделаны из диода, способного излучать синий свет, на который нанесен флуоресцентный слой (обычно люминофор), который преобразует источник света в белый свет. Сочетание различных полупроводниковых материалов основного диода и тип применяемого флуоресцентного материала, они позволяют создавать светодиоды с цветовой температурой от 2700K до 6500K и высокой цветопередачей (до CRI> 90). Разработка и исследования светодиодов привели к тому, что эта технология стала реальной альтернативой традиционным источникам освещения с точки зрения количества и качества света.

LED: LIFE TIME

Unlike traditional sources LEDs will not turn off suddenly at their working (or service) end of life, but they will slowly decrease their initial luminous flux until they turn off completely. The words "LIFE TIME" indicates the working life of LEDs considering emitted light (in percentage) up to reaching the number of stated operating hours. This value is indicated with letter "L". The letter "B" indicates the percentage of LEDs which could not guarantee the stated flow. For example: 50.000h L80/B20 indicates that the LEDs installed will have the residual flux equal to 80% after 50.000 working-hours (L80) and this value is guaranteed for 80% of the diodes (B20=20% of the diodes for which the stated working life is not guaranteed).



IT

LED: ASPETTATIVA DI VITA

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

FR

LED: DURÉE DE VIE

Contrairement à ce qui se produit pour les lampes traditionnelles qui peuvent s'arrêter de fonctionner avant la fin de sa durée de vie, avec une LED on assiste à une lente diminution du flux lumineux initial jusqu'à son épuisement complet. L'indication "durée de vie" définit la durée de vie utile de la LED en considérant la lumière émise (en pourcentage) pour atteindre les heures de fonctionnement déclarées. Cette valeur est indiquée par la lettre "L". La lettre "B" indique le pourcentage de LED qui pourraient ne pas garantir le flux déclaré. Par exemple : 50.000h L80/B20 indique que les LED installées auront un flux résiduel égal à 80 % après 50.000 heures de fonctionnement (L80), et que cette donnée est garantie pour 80 % des diodes (B20 = 20 % des diodes pour lesquelles la durée déclarée n'est pas garantie).

ES

LED: EXPECTATIVA DE VIDA

Contrariamente a lo que ocurre con las lámparas tradicionales que tienden a apagarse automáticamente al completar su ciclo de vida útil, en el LED se observa una lenta disminución del flujo luminoso hasta agotarse por completo. Con la indicación "vida útil" se indica por lo tanto la expectativa de vida útil del LED, considerando la luz emitida (en porcentajes) al alcanzar el total de horas de funcionamiento declaradas. Este valor se indica con la letra "L". Con la letra "B" se indica el porcentaje de leds que podrían no garantizar el flujo indicado. Por ejemplo: 50.000h L70/B20 indica que los leds instalados tendrán un flujo residual del 80% después de 50.000 horas de funcionamiento (L70), y que este dato es garantizado para el 80% de los diodos (B20= 20% de diodos en los que no se garantiza la duración indicada).

DE

LED: LEBENSDAUER

Entgegen den herkömmlichen Leuchtmitteln, die an ihrem Ende der Lebensdauer in der Regel unerwartet und schlagartig ausgehen, reduziert sich bei LEDs der abgegebene Lichtstrom nach und nach bis zum Lebensende und führt somit zu einem langsamen Verdunkeln der Lichtquelle. Unter "Lebensdauer" versteht man daher bei LEDs den verwendbaren Zeitraum, an dessen Ende die abgegebene Lichtmenge einen gewissen prozentualen Wert der Anfangslichtmenge erreicht. Dieser Prozentwert wird mit dem Buchstaben "L" bezeichnet. Diesem folgt die Angabe, wieviele der vorhandenen LEDs diesen Wert garantieren müssen. Angegeben wird dies mit dem Buchstaben "B" und dem Anteil der LEDs, die die geforderte Lichtmenge nicht mehr erreichen könnten. Beispiel: 50.000 h L80B20 bedeutet, daß die verbauten LEDs nach 50.000 Betriebsstunden noch einen Lichtstrom von mindestens 80% des Nennstroms aufweisen (L80) und daß dieser Lichtstrom noch von mindestens 80% der vorhandenen LEDs erreicht wird (B20 = für 20% der Dioden wird die genannte Lebensdauer nicht garantiert).

RU

СВЕТОДИОД: ОЖИДАНИЕ ЖИЗНИ

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

LED: LIGHT QUALITY

During production it is not possible to expect the fully LED diodes characteristics and it is necessary to select the diodes once they are produced. LED Binning is way of sorting the chips LED so that all the LEDS from one particular bin look the same and have similar light out. The purchase costs are higher in case of request of LEDs with reduced binning (i.e. purchase LED with similar characteristics). When talking about the quality of light it is important to introduce the concept of color consistency, i.e. to inform the user that two fixtures with the same color temperature (e.g. 3.000K) could generate two different effects on the same surface area in terms of the light color perception. In order to avoid this problem and to measure the differences of color, it is necessary to refer to the system based on MacAdam ellipses. MacAdam ellipses are described as "steps" and they indicate how any color shade circumscribed by the perimeter of the ellipsis compared to a central reference, is indistinguishable to a human eye even if instrumentally it shows differences. In order to optimize the quality and chromatic uniformity of light sources, the LED used by IDEALLUX® are selected to achieve a 3 Step MacAdam precision (3 SDCM - Standard Deviation of Color Matching).



Different LED source lighting

LED: LIGHT QUALITY

IT

LED: QUALITÀ DELLA LUCE

Le caratteristiche dei diodi LED non possono essere completamente previste in fase di realizzazione ma occorre effettuare una selezione dei diodi una volta realizzati. Con Spesso sentiamo parlare di Binning dei LED, è il metodo di ordinamento dei chips LED in modo che i LED selezionati in un particolare gruppo di appartenenza abbiano aspetto e caratteristiche simili. La richiesta di LED aventi un binning ridotto (cioè acquistare LED con le caratteristiche simili) si traduce in costi di approvvigionamento maggiori considerando una selezione più accurata. Parlando di qualità della luce è importante introdurre il concetto di consistenza del colore cioè informare l'utilizzatore che due apparecchi con la stessa temperatura di colore (es. 3.000K) possono generare due effetti diversi sulla stessa superficie in termini di colore percepito della luce. Per ovviare a questo problema e per misurare le differenze di colore si è fatto ricorso al sistema basato sulle ellissi di MacAdam. Le ellissi di MacAdam sono descritte come "step" e definiscono come qualsiasi tonalità di colore circoscritta dal perimetro dell'ellisse rispetto ad un riferimento centrale, non è percepita dall'occhio umano anche se strumentalmente presenta differenze. Al fine di ottimizzare qualità e uniformità cromatica delle fonti luminose, I LED utilizzati nei prodotti IDEALLUX® sono selezionati per ottenere una precisione pari a 3 Step di MacAdam (3 SDCM - Standard Deviation of Color Matching).

FR

LED: QUALITÉ DE LA LUMIÈRE

Les caractéristiques des diodes LED ne peuvent pas être complètement prévues pendant la phase de réalisation mais il est nécessaire d'effectuer une sélection des diodes enfin réalisées. On entend souvent parler de Binning des LED, il s'agit de la méthode de classement des puces (LED Chips) de sorte que les LED sélectionnées dans un groupe particulier d'appartenance ont un aspect et des caractéristiques similaires. La demande de LED ayant un binning réduit (c'est-à-dire acheter des LED avec les mêmes caractéristiques) se traduit par des coûts d'approvisionnement plus élevés compte tenu du fait que la sélection devra être plus soignée. En ce qui concerne la qualité de la lumière il est important d'introduire le concept de la consistance de la couleur en informant l'utilisateur du fait que deux appareils ayant la même température de couleur (ex : 3.000K) peuvent générer deux effets différents sur la même superficie en termes de couleur de la lumière perçue. Pour contourner ce problème et pour mesurer les différences de couleur on a eu recours au système basé sur les ellipses de MacAdam. Les ellipses de MacAdam sont décrites comme "step" et elles définissent comment toute sorte de tonalité de couleur circonscrite par le périmètre de l'ellipse par rapport à un point de référence central, n'est pas perçue par l'oeil humain même si elle présente des différences. Afin d'optimiser la qualité et l'uniformité chromatique des sources lumineuses, les LED utilisées dans les produits IDEALLUX® sont sélectionnées pour obtenir une précision égale à 3 Steps de MacAdam (3 SDCM - Standard Deviation of Color Matching).

ES

LED: CALIDAD DE LA LUZ

Las características de los diodos LED no pueden preverse completamente en su fase de realización, por lo que es necesario efectuar una selección de los diodos una vez realizados. Con frecuencia oímos hablar de Binning de los leds, es el método para pedir los chips LED, de modo que los leds seleccionados en un determinado grupo de pertenencia tengan aspecto y características similares. Una solicitud de leds con binning reducido (es decir, adquirir leds con características similares) se traduce en costes de aprovisionamiento mayores considerando una selección más precisa. Al referirnos a la de calidad de la luz es importante introducir el concepto de consistencia del color, o sea informar al usuario que dos luminarias con la misma temperatura de color (ej. 3.000K) pueden generar dos efectos diferentes sobra la misma superficie en términos de color percibido de la luz. Para evitar este problema y para calcular las diferencias de color se recurre al sistema basado en las elipses de MacAdam. Las elipses de MacAdam se describen como "pasos" y se definen como cualquier tono de color circunscripto en el perímetro de la elipse respecto a un punto central, no es percibido por el ojo humano aunque presente diferencias instrumentales. A fin de optimizar la calidad y la uniformidad cromática de las fuentes luminosas, los leds utilizados en los productos IDEALLUX® Línea Colombo se seleccionan para obtener una precisión igual a 3 pasos de MacAdam (3 SDCM - Standard Deviation of Color Matching).

DE

LED: LICHTQUALITÄT

Bei der Herstellung der LEDs kommt es zu Streuungen der Farbparameter, die eine Selektierung der produzierten Dioden notwendig machen, dem sogenannten "Binning"(vom englischen "bin" = Behälter). Eine besonders akkurate Selektion ist aufwändiger und führt zu höheren Einkaufspreisen der LEDs, garantiert aber Leuchtmittel mit einer besseren, da gleichmäßigeren Lichtqualität. In diesem Zusammenhang ist es notwendig, auf eine ausreichende Farbkonsistenz zu achten. Denn es ist grundsätzlich möglich, daß zwei Lampen mit der nominell gleichen Farbtemperatur (z.B. 3.000 K) zwei unterschiedlich empfundene Lichteffekte auf der gleichen Oberfläche generieren können. Zur besseren Abgrenzung wurde daher eine ANSI-Norm geschaffen, die diese Farbwertabweichungen mithilfe der MacAdams-Ellipsen definiert. Diese Ellipsen beschreiben die Farbabstände auf einem XY-Koordinatensystem. Die Anzahl ("Steps") der von den verschiedenen LEDs erfassten MacAdams-Ellipsen informiert den Nutzer darüber, wie weit die Lichtfarben einzelner LEDs voneinander abweichen (Farbtoleranz). Die von IDEALLUX eingesetzten LEDs entstammen einer strengen Selektion mit nur 3 Steps nach MacAdam (3 SDCM = Standard Deviation of Color Matching). Die Mindestempfehlung der ANSI-Norm liegt bei 4 Steps, die also eine größere Farbabweichung zuläßt.

RU

LED: QUALITÀ DELLA LUCE

Характеристики светодиодных диодов не могут быть полностью предусмотрены во время строительства, но необходимо сделать выбор диодов после их изготовления. Мы часто слышим о биннинге светодиодов, это метод сортировки чипов светодиодов таким образом, чтобы светодиоды, выбранные в определенной группе, к которой они относятся, имели одинаковый внешний вид и характеристики. Спрос на светодиоды с уменьшенным биннингом (то есть на покупку светодиодов с аналогичными характеристиками) приводит к более высоким затратам на закупку с учетом более точного выбора. Говоря о качестве света, важно ввести концепцию согласованности цветов, то есть проинформировать пользователя о том, что два прибора с одинаковой цветовой температурой (например, 3000 K) могут создавать два разных эффекта на одной поверхности с точки зрения воспринимаемого цвета света. Чтобы преодолеть эту проблему и измерить цветовые различия, использовалась система на основе эллипсов MacAdam. Эллипсы Макадама описываются как «ступеньки» и определяют, как любой оттенок цвета, описанный по периметру эллипса относительно центрального ориентира, не воспринимается человеческим глазом, даже если инструментально представляет различия. Чтобы оптимизировать качество и однородность цвета источников света, светодиоды, используемые в продуктах IDEALLUX®, выбраны так, чтобы получить точность, равную 3 шагу MacAdam (3 SDCM - Стандартное отклонение соответствия цветов).

SILICON OPTICS

CHARACTERISTICS AND BENEFITS

The use of printed silicon optics applied to LED technology allow the realization of professional fixtures with high performance through the optimization of the optical and mechanical characteristics.

The use of the silicon optics guarantee:

- Optical waterproof unit – the correctly installed lens guarantees the impermeability of the optic group without the use of secondary gaskets.
- High thermal resistance suitable for extreme environments too – the use of silicon allows to produce optical units able to resist to working temperatures between -40° and +150° (with spikes up to +200°C too); this characteristic is an important benefit considering the direct exposure to the solar rays and relative heating of the fittings surfaces during the daylight hours.
- High UV resistance both external and from the source – a further characteristic of the silicon is the high UV resistance without external treatments. The risk of yellowing is nearly void.
- Resistance and lightness – the fittings with same power and dimensions result stronger and lighter compared to same version with glass cover; the silicon optic presents high IK resistance (IK10), high natural abrasion resistance and high resistance to microfractures.
- High optical output – through use of silicon optics the fixtures have high optical outputs, as it can be obtained trasmittances until 94-96%. This result cannot be reached through use of traditional fitting produced with aluminium reflector and front protection glass.

Furthermore the quick evolution of this recent technology together with the high material workability allows the realization of different types of optics enabling the designers to realize fittings with photometrical distributions studied properly for the destination of use of the products



IT

CARATTERISTICHE E VANTAGGI

L'utilizzo di lenti stampate in silicone applicate alla tecnologia LED permettono di realizzare apparecchi professionali con ottime performance ottimizzando le caratteristiche ottiche e meccaniche;

L'impiego delle ottiche in silicone infatti garantisce:

- Tenuta stagna del gruppo ottico intrinseca – è la stessa lente, opportunamente installata, che garantisce l'impermeabilità del vano ottico senza ricorrere a guarnizioni secondarie.
- Resistenza termica elevata ideale anche in ambienti estremi – l'utilizzo del silicone consente di realizzare gruppi ottici che possono resistere (senza subire variazioni meccaniche ed ottiche) a temperature di lavoro comprese tra i -40°C e +150°C (anche con picchi fino a +200°C); questa caratteristica è un vantaggio considerando l'esposizione diretta ai raggi solari e relativo riscaldamento delle superfici, che gli apparecchi di illuminazione subiscono durante le ore diurne.
- Elevata resistenza agli UV sia esterni che della sorgente – un'ulteriore caratteristica del silicone è quella di avere una elevata resistenza ai raggi ultravioletti senza trattamenti esterni tanto da considerare il rischio ingiallimento pressoché nullo.
- Resistenza e leggerezza – a parità di potenza e dimensioni gli apparecchi di illuminazione risultano più robusti e leggeri rispetto ad un'analoga versione con vetro di chiusura; l'ottica in silicone presenta un grado di resistenza all'impatto IK elevato (IK10) ed alle microfratture oltre che una naturale resistenza all'abrasione.
- Rendimento ottico elevato – un prodotto realizzato con l'ausilio di ottiche siliconiche è un prodotto con ottimi rendimenti ottici dati dal fatto che si possono raggiungere trasmittanze fino al 94-96% cosa non realizzabile con prodotti tradizionali realizzati con riflettore in alluminio e vetro di protezione anteriore.

Inoltre, la veloce evoluzione di questa recente tecnologia, unitamente alla lavorabilità elevata del materiale, ha consentito di realizzare differenti tipi di ottiche consentendo ai progettisti di realizzare apparecchi con distribuzioni fotometriche mirate per la destinazione d'uso dei prodotti.

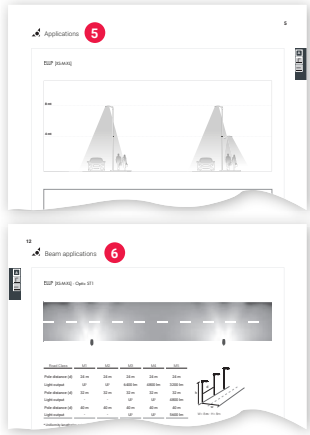
For french, spanish, german and russian translations, please refer to our web site

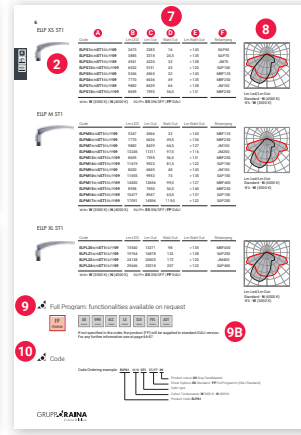


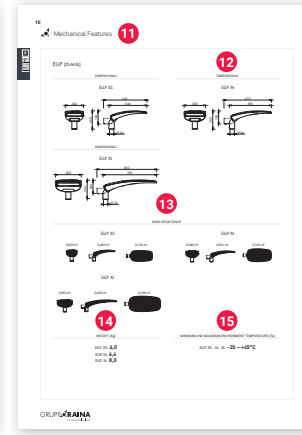
LEGENDA

HOW TO READ THE CATALOGUE - STREET LIGHTS









	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения
6	"Beam" applications	Applicazioni "fascio luminoso"	Utilisations "faisceau lumineux"	Aplicaciones " haz de luz"	" Lichtstrahls" Anwendung	Применения "луча"
7	Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
8	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
9	"Full Program" functions	Funzioni "Full Program"	Fonctions "Full Program"	"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"
9B	If not specified in the order, the product (FP) will be supplied in standard DALI version. For any further information see at page 66-67.	Se non specificato in fase di ordine, il prodotto (FP) sarà fornito con funzionalità standard DALI. Ulteriori informazioni vedi pagina 66-67.	En absence d'indication particulière à la commande, le produit (FP) sera fourni dans la version standard DALI. Informations supplémentaires cf. page 66-67.	Sin más especificaciones en el pedido, el producto (FP Full Program) será suministrado con la función estándar DALI. Para más detalles ver página 66-67.	Falls bei der Bestellung keine Funktionsanforderung angegeben ist, wird das Produkt (FP Full Program) mit Standard-DALI-Funktionalität geliefert. Für weitere Informationen sehen Sie Seite 66-67.	Если не указано иное во время заказа, продукт (FP) будет поставляться со стандартной функцией DALI. Дополнительная информация на странице 66-67.
10	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
11	Mechanical features	Caratteristiche meccaniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
12	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
13	Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
14	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
15	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maximale Temperatur (Ta)	Минимальная температура и максимальная (Ta)

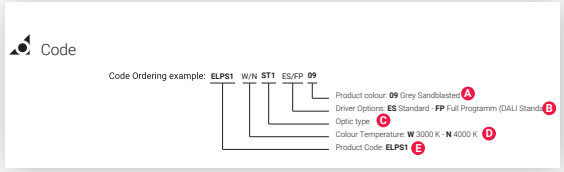
LEGENDA

7 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

10 ORDER CODE EXAMPLE

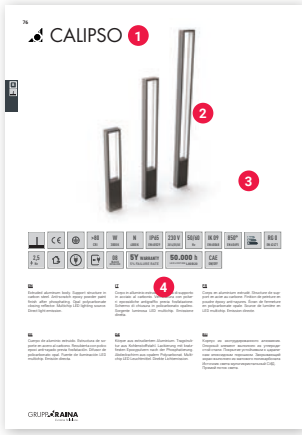
- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

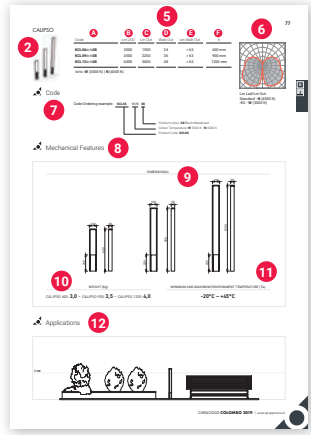


	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Driver type	Tipo di driver	Type de câblage	Tipo de cableado	Treibertyp	Тип драйвера
C	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
D	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
E	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

HOW TO READ THE CATALOGUE - BOLLARD





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10	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
11	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)
12	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения

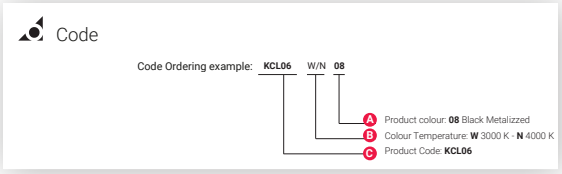
LEGENDA

5 PRODUCT CHARACTERISTICS TABLE

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C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

7 ORDER CODE EXAMPLE

- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

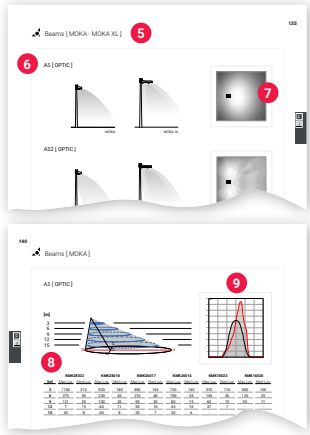


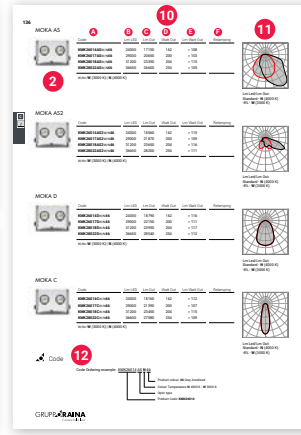
	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
C	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

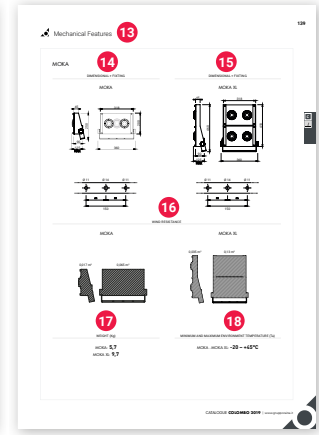
LEGENDA

HOW TO READ THE CATALOGUE - FLOODLIGHTS









EN	IT	FR	ES	DE	RU
1 Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2 Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3 Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4 Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5 Beam angle	Angolo del fascio luminoso	Angle du faisceau lumineux	Ángulo del haz de luz	Winkel des Lichtstrahls	угол светового луча
6 Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
7 Isolux diagrams	Isolinee illuminamento	Diagrammes Isolux	Diagramas de Isolux	Ausleuchtungsdia-gramme	Isolux диаграммы
8 Beam diagrams	Rappresentazione del fascio	Diagramme de faisceau lumineux	Diagrama del haz de luz	Lichtstrahlendiagramm	диаграмма луча
9 Cartesian diagrams	Curva cartesiana	Diagramme cartésien	Diagrama cartesiano	Kartesische Diagramme	Декартовы диаграммы
10 Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
11 Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
12 Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
13 Mechanical features	Caratteristiche mec-caniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
14 Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
15 Fixting	Fissaggi	Fixation	Fijación	Befestigung	монтажные отверстия
16 Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
17 Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
18 Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)

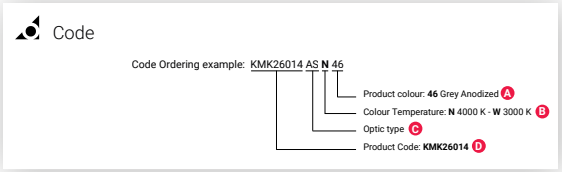
LEGENDA

10 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
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	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
C	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
D	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

POSSIBLE APPLICATIONS

APPLICAZIONI POSSIBILI | APPLICATIONS POSSIBLES | POSIBLES APLICACIONES | MÖGLICHE ANWENDUNGEN | ВОЗМОЖНЫЕ ПРИМЕНЕНИЯ

	EN	IT	FR
	Fixed pole-top installation (60 mm diameter pole head).	Installazione fissa cima palo (testa palo diametro 60 mm).	Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre)
	Installation on arm	Installazione a sbalzo	Installation sur crosse
	Bollard light	Colonne luminose	Colonnes lumineuses
	Floodlight	Proiettore	Projecteur

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
CE	Indicates that the product meets the requirements of the applicable EC Directives of the regulations in the EU	Indica che il prodotto è conforme ai requisiti di sicurezza richiesti dalle direttive e dalle normative della Comunità Europea.	Certifie que le produit est réalisé au sein de l'Union Européenne et dans le respect des normes de sécurités en vigueur.
	Isolation class 1	Classe di isolamento 1	Classe d'isolation 1
	Isolation class 2	Classe di isolamento 2	Classe d'isolation 2
>.. CRI	CRI (Colour Rendering index) indicates how natural the colours of the illuminated objects look	CRI (Colour Rendering index) Indica quanto naturali appaiano i colori degli oggetti da essa illuminati.	CRI (Colour Rendering index)Indique le rendement des couleurs des objets éclairés.
W 3000 K	It identifies the colour temperature of the LEDS expressed in Kelvin	Indica la temperatura di colore del LED espressa in gradi Kelvin	Température de la couleur de la LED exprimée en degrés Kelvin
IP .. EN 60529	Indicates the protection degree of the fixture against dust and water	Rappresenta il grado di protezione dell'apparecchio dalla polvere e dall'acqua.	Indique le degré de protection de l'appareil contre les poussières et l'eau
230 V 2014/35/UE	Indicates the operating voltage of the fitting	Indica le tensioni operative dell'apparecchio.	Indique les tensions de travail de l'appareil
50/60 Hz	Indicates the operating frequencies of the fitting	Indica le frequenze operative dell'apparecchio.	Indique les fréquences de travail de l'appareil
IK .. EN 60068	Degree of Protection against external mechanical impact	Indica il grado di resistenza all'urto dell'involucro esterno dell'apparecchio.	Indique le degré de protection de l'emballage du produit contre les impacts mécanique externes
850° EN 60695	It indicates the flammability degree of plastic materials according to CEI 50-11 standards	Indica il grado di infiammabilità dei materiali plastici in accordo alle normative CEI 50-11.	Indique le degré d'auto-extinction des matières plastiques selon les standards CEI 50-11-
	Energy consumption class	Classe energetica	Classe de consommation d'énergie
RG 0 EN 62471	Exempt Risk Group. Installed under normal conditions of use (minimum distance between user and light source of 4m)	Rischio Esente. Installata in normali condizioni d'impiego (distanza minima tra utilizzatore e sorgente luminosa di 4m)	Risque 0. Installée en conditions normales d'utilisation (distance minimum entre l'utilisateur et source lumineuse doit être 4mt)

LEGENDA

ES	DE	RU
Instalación fija a columna (columna diámetro 60mm).	Feste polkopfinstallation (polkopfdurchmesser 60 mm).	Несъёмная установка на столбе (диаметр головки столба 60 мм).
Instalación con carga	Freitragende installation	Установка на руку
Bolardos luminosos	Pollerleuchten	Столбик света
Proyector	Projektor	Прожектор

ES	DE	RU
Certifica que el producto es realizado en el ambito de la Comunidad Europea y respeta las normas de seguridad vigentes.	Gibt an, dass das Produkt den Sicherheitsanforderungen der Richtlinien und Verordnungen der Europäischen Gemeinschaft entspricht.	Указывает на то, что продукт соответствует требованиям безопасности, разработанным применяемыми директивами законодательства в Европейском союзе.
Clase de aislamiento 1	Isolationsklasse 1	Класс изоляции 1
Clase de aislamiento 2	Isolationsklasse 2	Класс изоляции 2
CRI (Colour Rendering index) Indica el nivel de apariencia naturallos colores de los objetos iluminados.	CRI (Colour Rendering index) Gibt an, wie natürlich die Farben der beleuchteten Objekte erscheinen.	CRI (Показатель цветопередачи) Он указывает, насколько натурально выглядят цвета освещаемых предметов.
Indica la temperatura de color del LED expresada en grados Kelvin	Zeigt die Farbtemperatur der LED in Kelvin-Graden	Определяет цветовую температуру светодиодов, выраженную в Кельвинах
Indica el grado de proteccion de la luminaria al polvo y al agua	Gibt den Schutzgrad des Geräts vor Staub und Wasser an.	Он показывает степень защиты поверхностей.
Indica las tensiones operativas de la luminaria	Zeigt die Betriebsspannungen des Geräts an.	Это указывает рабочее электрическое напряжение светильника.
Indica las frecuencias operativas de la luminaria.	Zeigt die Betriebsfrequenzen des Geräts an.	Это указывает рабочую частоту светильника.
Indica el grado de resistencia al impacto de la cubierta externa de la luminaria	Zeigt den Grad der Schlagfestigkeit des äußeren Gehäuses des Geräts an.	Степень защиты от воздействия внешних механических факторов
Indica el grado de auto extincion del material plastico segun los estandares estadounidense CEI 50-11.	Gibt den Entzündbarkeitsgrad von Kunststoffen gemäß CEI 50-11 an.	Он указывает степень воспламеняемости пластиковых материалов в соответствии со стандартами CEI 50-11.
Clase de consumo de energia	Energieverbrauchsklasse	Класс энергозатрат
Riesgo Exento. Instalada en condiciones normales de uso (distancia mínima de 4 metros entre utilizador y fuente luminosa)	Risikofrei. Unter normalen Betriebsbedingungen installiert (Mindestabstand zwischen Benutzer und Lichtquelle von 4 m)	Без риска. Уста- навливая при нор- мальных условиях использования (минимальное расстояние между пользователем и источником света 4 м)

LEGENDA

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
	Surge protector	Protezione contro le scariche atmosferiche	Protection contre les décharges atmosphériques
	Fitting suitable for outdoor use	Apparecchio idoneo per l'utilizzo in ambienti esterni	Luminaire adapté pour une installation en extérieur
	Integrated power supply	Alimentatore integrato	Alimentation intégrée
	Separate power supply	Alimentatore separato	Alimentation séparée
	Power supply	Alimentazione	Alimentation
	Black metallized colour	colore nero metallizzato	Couleur noir métallique
	Grey sandblasted colour	Colore grigio sabbiato	Couleur gris sablé
	Grey anodized	Grigio anodizzato	Gris anodisé
	Service Life LED	Aspettativa di vita del LED	Durée de vie LED
	Warranty. More details on our website	Garanzia. maggiori dettagli alla nostra pagina web	Garantie. Plus de détails sur notre page Web.
	Active temperature control	Controllo attivo della temperatura	Contrôle actif de la température
	ON/OFF operation	Funzionamento ON/OFF	Fonctions ON/OFF
	"Full Program" functions	Funzioni "Full Program"	Fonctions"Full Program"

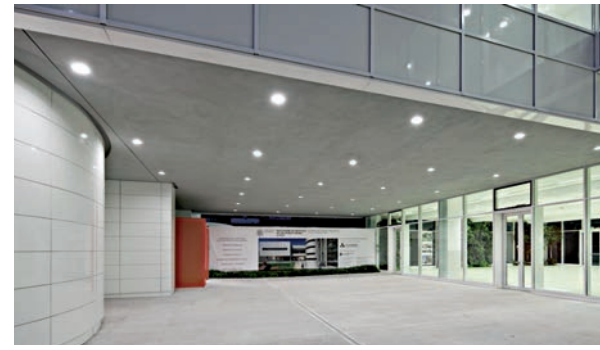
LEGENDA

ES	DE	RU
Protección contra descargas atmosféricas	Schutz vor atmosphärischen Entladungen	Защита от атмос-ферных влияний
Luminaria adecuada para uso en exteriores	Leuchte für den Außenbereich geeignet	Прибор подходит для использования в помещениях внешний.
Fuente de alimentación integradal	Integrierte Stromversorgung	встроенный источник питания
Fuente de alimentación separada	Separate Stromversorgung	отдельный источник питания
Fuente de alimentación	Stromversorgung	Источник питания
Color negro metalizado	Metallische schwarze Farbe	черный металлик
Color gris arenado	Sandgestrahlte graue Farbe	Серый пескоструйный цвет
Anodizado gris	Grau eloxiert	Серый анодированный
Viad Util LED	LED-Lebenswartung	Срок службы СИД
Garantía. más detalles en nuestra página web.	Garantie. Weitere Details auf unserer Webseite	арантия. Дальнейшие детали на нашем сайте
Control activo de temperatura	Aktive Temperaturregelung	активный контроль температуры
Operación ON/OFF	EIN / AUS-Betrieb	ON/OFF операция
"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"

CASE HISTORY

AMONG OUR CUSTOMERS WE COUNT:

- Penny market
- Assicurazioni Generali, Milano
- Negozi | Shops Nurith
- Ubi banca
- Mbda, La Spezia
- Negozi | Shops arredamento home plus
- De Rigo Refrigeration
- Ipermercati | Supermarket Coop
- Antony Morato
- Natuzzi Divani
- Brunello Cucinelli
- Negozi | Shops Orofino
- Depositi | Warehouses Comifar
- Piaggio
- Ups logistica | Logistic
- Santo Stefano S.P.A.
- Volkswagen
- Rapitech, Lecco
- Pelletteria Meucci, Scandicci
- Et Engineering&Technology, Perignano
- Favilli Pneumatici, Perignano
- Solettificio Guerrieri, Fucecchio
- Trelleborg
- Negozi | Shops Strolli Oro
- Negozi | Shops Profumerie Limoni
- Indesit
- Maletti group



Politecnico "Lecco"



Yeast Factory salataguse, "Estonia"



Orchid hotel, "Abu Dhabi", uae



Yeast factory Salataguse, "Estonia"

CASE HISTORY



Factory



Yeast factory Salataguse, "Estonia"



Office



Coop Supermarket

PROJECTS:

- Castello / *Castle*, Lerici
- Aeroporto | *Airport*, Pisa
- Concessionaria Fiat, Roma
- Palazzo | *Building* INPS , Genova
- Stabilimenti | *Factory* Acqua Uliveto
- Fiera | *Fair* Milano
- Fiera | *Fair* Roma
- Fiera | *Fair* Genova
- Ospedale | *Hospital* San Raffaele, Milano
- Base NATO, Napoli
- Carcere | *Prison* , Parma
- Scuole | *Schools*, Bari
- Politecnico, Lecco
- Istituto Poligrafico dello Stato, Roma
- Stadio | *Stadium* Meazza, Milano
- Stadio del Tennis | *Tennis Stadium*, Roma
- Torre | *Tower* Isozaki, Milano
- Torre | *Tower* Zucchetti, Lodi
- Torre | *Tower* Hadid, Milano
- Nuvola Lavazza, Torino
- Palazzo | *Building* Sky, Milano
- Asilo nido | *Nursery* Guastalla, Monza
- Ospedale | *Hospital* , Alessandria
- B&B Hotel, Sesto San Giovanni
- Aeroporto | *Airport* Namibe, Angola
- Arab Bank Amman, Giordania
- Al Jalila Cultural Center, Dubai UAE
- Bank of Sharjah, UAE

CASE HISTORY

PROJECTS:

- Giordania Mabada & Shuna Clinic, Giordania
- Palazzo | *Palace* Versace Hotel, Dubai UAE
- Dubai International Airport APM, Dubai UAE
- Institute of applied technology, Abu Dhabi UAE
- Arab Ready Food Mela, Giordania
- Khalifa Hospital, Dubai UAE
- Energy city, Doha Qatar
- Ethyad Tower, Abu Dhabi UAE
- Salam Mall, Kuwait
- Custom Buildings, Dubai UAE
- YAS Island Police Station, Abu Dhabi UAE
- Tangram Hotel Erbil, Iraq
- Emirates Bank, Dubai UAE
- Gold's gym, Kuwait
- Ghanima Hospital, Kuwait
- Al Raha Beach Development, Abu Dhabi UAE
- Al Raha Beach Apartments, Abu Dhabi UAE
- Grand Millenium Hotel, Iraq
- Burj Khalifa Tower, Dubai UAE
- Yas Marina Enhancement Main Contract works, Abu Dhabi UAE
- Red Valentino Boutique, Abu Dhabi UAE
- Arab Bank Sharjah Branch UAE
- 7th&8th floors fit-out works – The Gate Tower, Doha Qatar
- Arab Bank Airport Branch Amman, Giordania
- Finance House Tower, Dubai
- Al Ruwais, Abu Dhabi UAE



Ospedale di "Ginevra"



American University Suleiman, "Iraq"



Abacus hotel, "Hungary"



Negozio "Benetton"

CASE HISTORY



Homeplus



Brunello Cucinelli, Doha, "Qatar"



Alled Shopping Center, "Hungary"



Coop Supermarket

PROJECTS:

- Al Ali Villa at West Bay Lagoon, Qatar
- American office Abu Dhabi Airport, Abu Dhabi UAE
- Al Badie Rotana Hotel, Abu Dhabi UAE
- Ambulatory Health Care Center, Abu Dhabi UAE
- Pipe cast factory, Qatar
- Vip Lounge Safat Airport, Kuwait
- Al Gumrok Hotel, Qatar
- Orchid Hotel, Abu Dhabi UAE



Centro sportivo

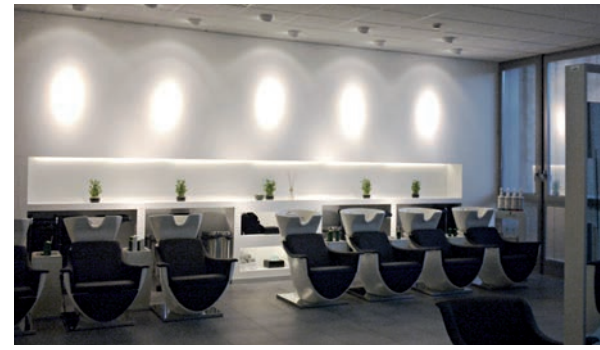


Villa Serra di Comago (GE)

CASE HISTORY



Waterford Theatre Royale, Ireland



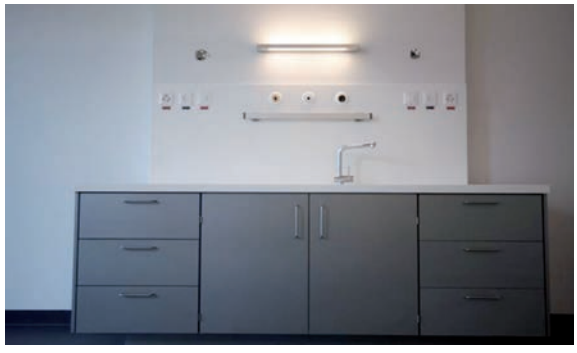
ASK



Torre Dei Balivi Aosta



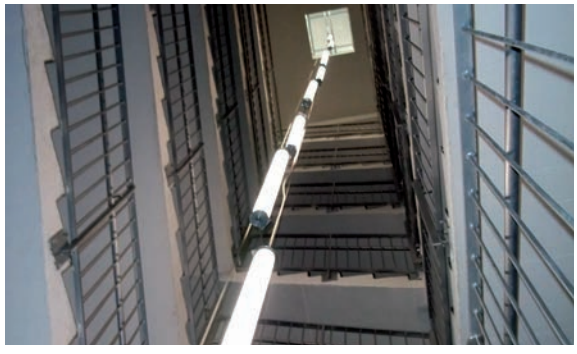
Homeplus



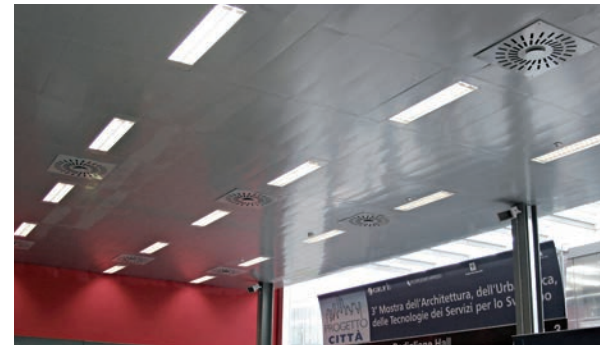
Ospedale Di Ginevra



Scuole



Fiera Milano City



Rho Fiera "Milano"

CASE HISTORY



Abitare In " MIlano"



Abitare In " MIlano"



GRUPPO RAINA
L'unione fa la luce.

STREET LIGHTS



A
001





ELLP

ELLP [XS-M-XL]



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				09 GREY SANDBLASTED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Adjustable pole fixing system 0°-90° (pole head diameter 60 mm) adjustable from 0° to 20° for pole top installations. LED light source. Direct light emissione. Integrated device for active control of the LED temperature through NTC.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Sistema di fissaggio a palo regolabile 0°-90° (testa palo diametro 60 mm) orientabile da 0° a 20° per installazioni cima palo. Sorgente luminosa LED. Emissione diretta. Dispositivo integrato per il controllo attivo della temperatura dei LED tramite NTC.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord mât orientable de 0° à 90° pour fixation sur la crosse, et de 0° à 20° pour fixation en sommet de mât. (mâts : 60 mm de diamètre). Source lumineuse LED. Emission directe. Système intégré NTC pour contrôle automatique de la température.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm). Conector no incluido. Sistema de fijación de poste adjustable 0°-90° (60 mm de diámetro cabeza del poste) inclinable de 0° a 20° para instalación a columna. Fuente de luz LED. Emisión directa. Dispositivo integrado para el control activo de la temperatura de LED através de NTC.

DE

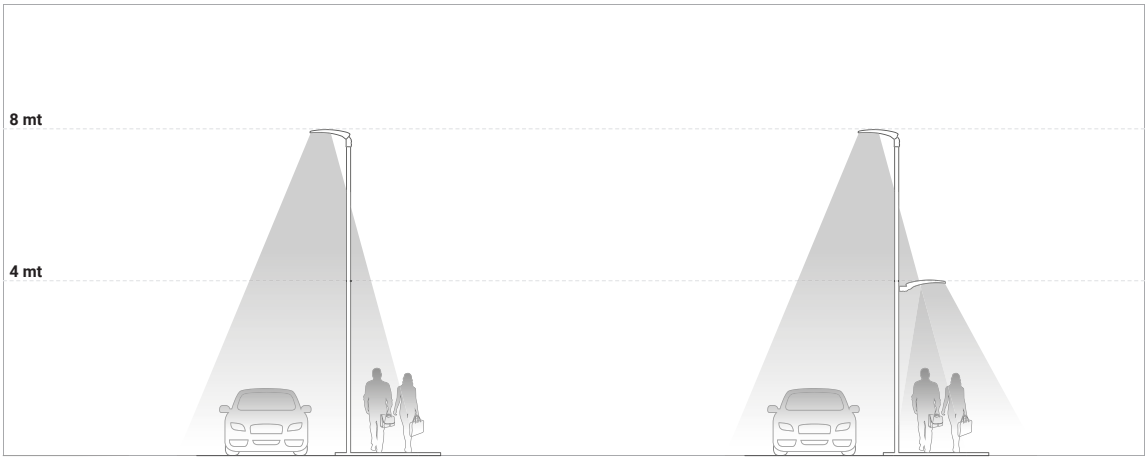
Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Einstellbares Polbefestigungssystem 0°-90° (Polkopfdurchmesser 60 mm), einstellbar von 0° bis 20° für Polkopfinstallationen. LED-Lichtquelle. Direkte Lichtemission. Integriertes Gerät zur aktiven Regelung der LED-Temperatur über NTC.

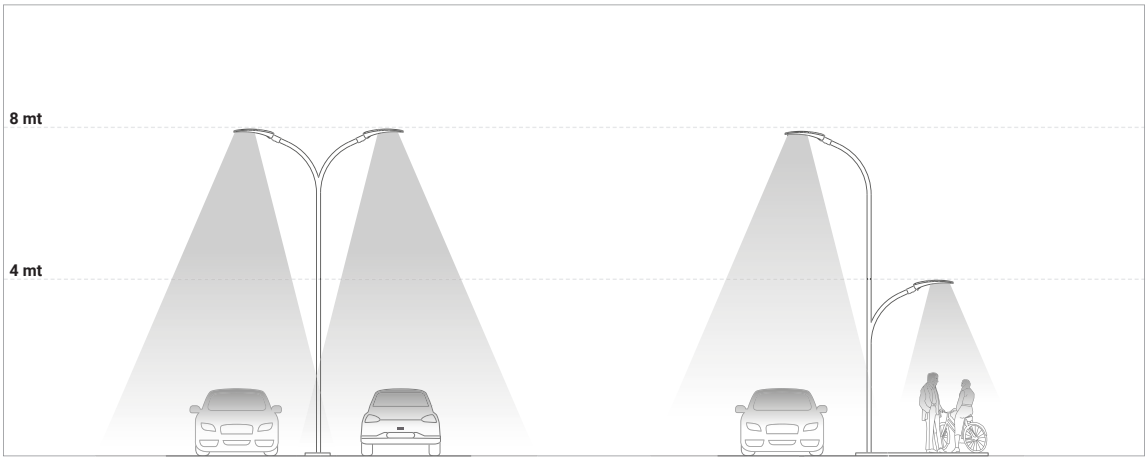
RU

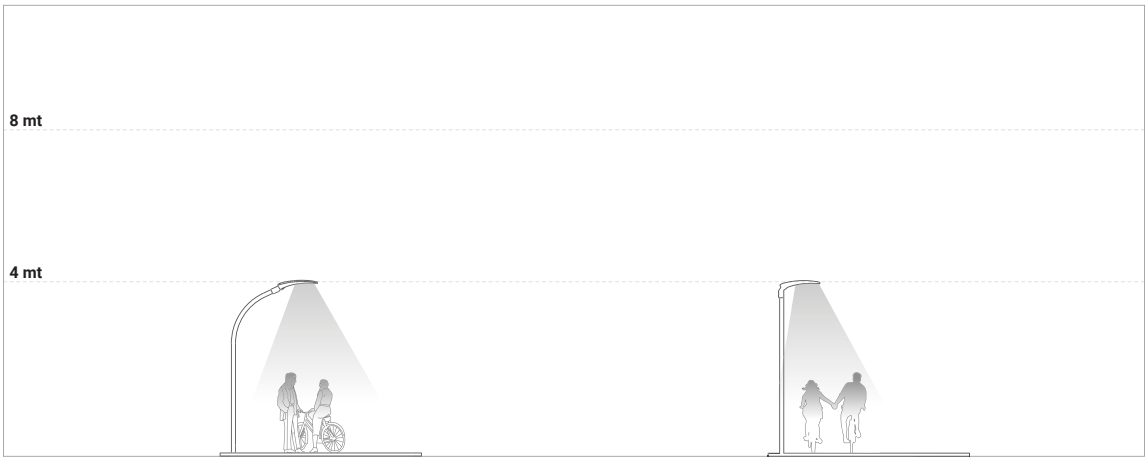
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Система для крепления на столбе с регулируемым углом наклона 0 ° - 90 ° (диаметр головки столба 60 мм), для монтажа от 0 ° до 20 ° . Светодиодный источник света. Прямой поток света. Интегрированное устройство для контроля температуры светодиодов через NTC.

Applications

ELLP [XS-M-XL]





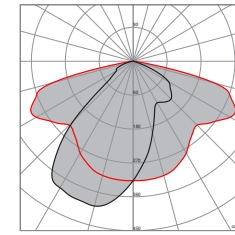


ELLP XS ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST1**ES/FP**09**	2673	2283	16	> 143	SAP50
ELPS2W/N**ST1**ES/FP**09**	3885	3318	24,5	> 135	SAP70
ELPS3W/N**ST1**ES/FP**09**	4941	4220	33	> 128	JM70
ELPS12W/N**ST1**ES/FP**09**	6032	5151	43	> 120	SAP100
ELPS5W/N**ST1**ES/FP**09**	5346	4565	32	> 143	MBF125
ELPS6W/N**ST1**ES/FP**09**	7770	6636	49	> 135	MBF250
ELPS7W/N**ST1**ES/FP**09**	9882	8439	66	> 128	JM150
ELPS13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



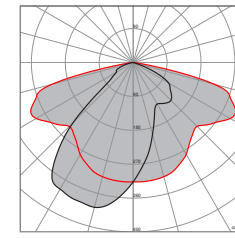
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST1**ES/FP**09**	5347	4566	32	> 143	MBF125
ELPM6W/N**ST1**ES/FP**09**	7770	6636	49,5	> 134	MBF250
ELPM7W/N**ST1**ES/FP**09**	9882	8439	66,5	> 127	JM150
ELPM8W/N**ST1**ES/FP**09**	13245	11311	97,5	> 116	JM250
ELPM13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250
ELPM14W/N**ST1**ES/FP**09**	11619	9923	81,5	> 122	SAP150
ELPM9W/N**ST1**ES/FP**09**	8020	6849	48	> 143	JM150
ELPM10W/N**ST1**ES/FP**09**	11655	9953	74	> 135	SAP150
ELPM11W/N**ST1**ES/FP**09**	14820	12656	99,5	> 127	MBF400
ELPM15W/N**ST1**ES/FP**09**	8958	7650	54,5	> 140	MBF250
ELPM16W/N**ST1**ES/FP**09**	10477	8947	65,5	> 137	SAP150
ELPM17W/N**ST1**ES/FP**09**	17091	14596	119,5	> 122	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



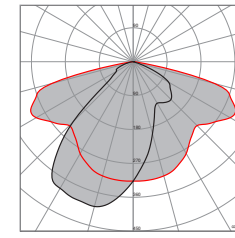
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST1**ES/FP**09**	15540	13271	98	> 135	MBF400
ELPL21W/N**ST1**ES/FP**09**	19764	16878	132	> 128	SAP250
ELPL22W/N**ST1**ES/FP**09**	24128	20605	172	> 120	JM400
ELPL24W/N**ST1**ES/FP**09**	29646	25318	207	> 122	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST1** ES/FP **09**

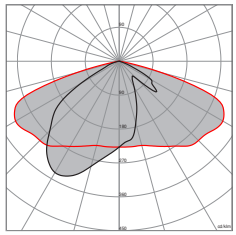
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST2**ES/FP**09**	2673	2403	16	> 150	SAP50
ELPS2W/N**ST2**ES/FP**09**	3885	3493	24,5	> 143	SAP70
ELPS3W/N**ST2**ES/FP**09**	4941	4442	33	> 135	JM70
ELPS12W/N**ST2**ES/FP**09**	6032	5423	43	> 126	SAP100
ELPS5W/N**ST2**ES/FP**09**	5346	4806	32	> 150	MBF125
ELPS6W/N**ST2**ES/FP**09**	7770	6985	49	> 143	MBF250
ELPS7W/N**ST2**ES/FP**09**	9882	8884	66	> 135	JM150
ELPS13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



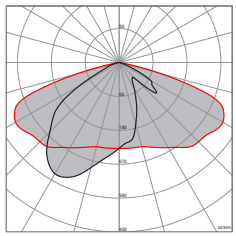
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST2**ES/FP**09**	5347	4807	32	> 150	MBF125
ELPM6W/N**ST2**ES/FP**09**	7770	6985	49,5	> 141	MBF250
ELPM7W/N**ST2**ES/FP**09**	9882	8884	66,5	> 134	JM150
ELPM8W/N**ST2**ES/FP**09**	13245	11907	97,5	> 122	JM250
ELPM13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250
ELPM14W/N**ST2**ES/FP**09**	11619	10445	81,5	> 128	SAP150
ELPM9W/N**ST2**ES/FP**09**	8020	7210	48	> 150	JM150
ELPM10W/N**ST2**ES/FP**09**	11655	10478	74	> 142	SAP150
ELPM11W/N**ST2**ES/FP**09**	14820	13323	99,5	> 134	MBF400
ELPM15W/N**ST2**ES/FP**09**	8958	8053	54,5	> 148	MBF250
ELPM16W/N**ST2**ES/FP**09**	10477	9419	65,5	> 144	SAP150
ELPM17W/N**ST2**ES/FP**09**	17091	15365	119,5	> 129	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



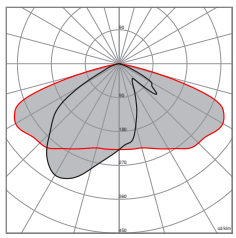
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST2**ES/FP**09**	15540	13970	98	> 143	MBF400
ELPL21W/N**ST2**ES/FP**09**	19764	17768	132	> 135	SAP250
ELPL22W/N**ST2**ES/FP**09**	24128	21691	172	> 126	JM400
ELPL24W/N**ST2**ES/FP**09**	29646	26652	207	> 129	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST2** ES/FP **09**

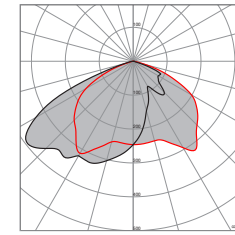
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**AS1**ES/FP**09**	2673	2227	16	> 139	SAP50
ELPS2W/N**AS1**ES/FP**09**	3885	3236	24,5	> 132	SAP70
ELPS3W/N**AS1**ES/FP**09**	4941	4116	33	> 125	JM70
ELPS12W/N**AS1**ES/FP**09**	6032	5025	43	> 117	SAP100
ELPS5W/N**AS1**ES/FP**09**	5346	4453	32	> 139	MBF125
ELPS6W/N**AS1**ES/FP**09**	7770	6472	49	> 132	MBF250
ELPS7W/N**AS1**ES/FP**09**	9882	8232	66	> 125	JM150
ELPS13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



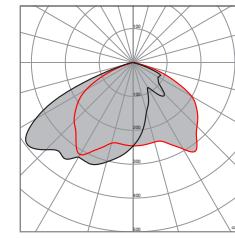
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**AS1**ES/FP**09**	5347	4454	32	> 139	MBF125
ELPM6W/N**AS1**ES/FP**09**	7770	6472	49,5	> 131	MBF250
ELPM7W/N**AS1**ES/FP**09**	9882	8232	66,5	> 124	JM150
ELPM8W/N**AS1**ES/FP**09**	13245	11033	97,5	> 113	JM250
ELPM13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250
ELPM14W/N**AS1**ES/FP**09**	11619	9679	81,5	> 119	SAP150
ELPM9W/N**AS1**ES/FP**09**	8020	6681	48	> 139	JM150
ELPM10W/N**AS1**ES/FP**09**	11655	9709	74	> 131	SAP150
ELPM11W/N**AS1**ES/FP**09**	14820	12345	99,5	> 124	MBF400
ELPM15W/N**AS1**ES/FP**09**	8958	7462	54,5	> 137	MBF250
ELPM16W/N**AS1**ES/FP**09**	10477	8727	65,5	> 133	SAP150
ELPM17W/N**AS1**ES/FP**09**	17091	14237	119,5	> 119	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



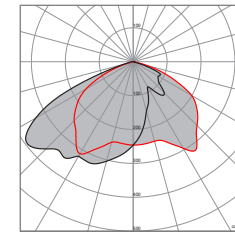
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**AS1**ES/FP**09**	15540	12945	98	> 132	MBF400
ELPL21W/N**AS1**ES/FP**09**	19764	16463	132	> 125	SAP250
ELPL22W/N**AS1**ES/FP**09**	24128	20099	172	> 117	JM400
ELPL24W/N**AS1**ES/FP**09**	29646	24695	207	> 119	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **AS1** ES/FP **09**

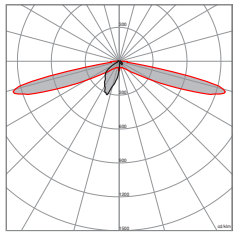
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**CP**ES/FP**09**	2673	2387	16	> 149	SAP50
ELPS2W/N**CP**ES/FP**09**	3885	3469	24,5	> 142	SAP70
ELPS3W/N**CP**ES/FP**09**	4941	4412	33	> 134	JM70
ELPS12W/N**CP**ES/FP**09**	6032	5387	43	> 125	SAP100
ELPS5W/N**CP**ES/FP**09**	5346	4774	32	> 149	MBF125
ELPS6W/N**CP**ES/FP**09**	7770	6939	49	> 142	MBF250
ELPS7W/N**CP**ES/FP**09**	9882	8825	66	>134	JM150
ELPS13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



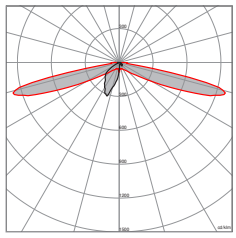
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**CP**ES/FP**09**	5347	4775	32	> 149	MBF125
ELPM6W/N**CP**ES/FP**09**	7770	6939	49,5	> 140	MBF250
ELPM7W/N**CP**ES/FP**09**	9882	8825	66,5	> 133	JM150
ELPM8W/N**CP**ES/FP**09**	13245	11828	97,5	> 121	JM250
ELPM13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250
ELPM14W/N**CP**ES/FP**09**	11619	10376	81,5	> 127	SAP150
ELPM9W/N**CP**ES/FP**09**	8020	7162	48	> 149	JM150
ELPM10W/N**CP**ES/FP**09**	11655	10408	74	> 141	SAP150
ELPM11W/N**CP**ES/FP**09**	14820	13234	99,5	> 133	MBF400
ELPM15W/N**CP**ES/FP**09**	8958	7999	54,5	> 147	MBF250
ELPM16W/N**CP**ES/FP**09**	10477	9356	65,5	> 143	SAP150
ELPM17W/N**CP**ES/FP**09**	17091	15262	119,5	> 128	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



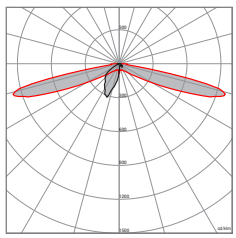
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**CP**ES/FP**09**	15540	13877	98	> 142	MBF400
ELPL21W/N**CP**ES/FP**09**	19764	17649	132	> 134	SAP250
ELPL22W/N**CP**ES/FP**09**	24128	21546	172	> 125	JM400
ELPL24W/N**CP**ES/FP**09**	29646	26474	207	> 128	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

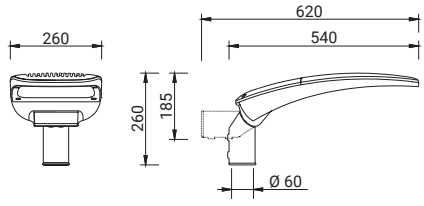
Code Ordering example: **ELPS1** W/N **CP** ES/FP **09**

- **09** Product colour: **09** Grey Sandblasted
- ES/FP Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- **CP** Optic type
- W/N Colour Temperature: **W** 3000 K - **N** 4000 K
- **ELPS1** Product Code: **ELPS1**

ELLP [XS-M-XL]

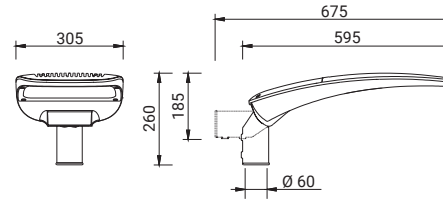
DIMENSIONAL

ELLP XS



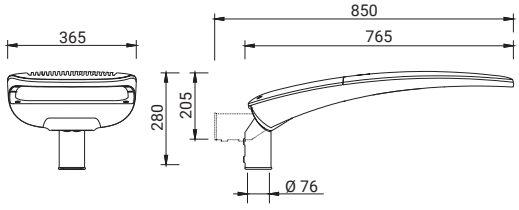
DIMENSIONAL

ELLP M



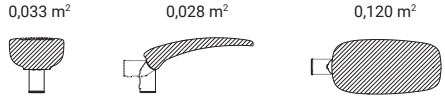
DIMENSIONAL

ELLP XL

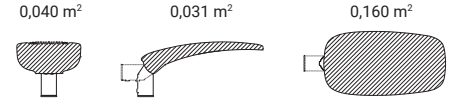


WIND RESISTANCE

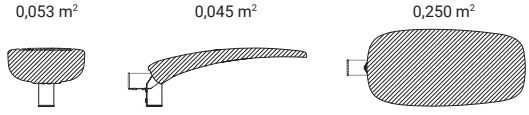
ELLP XS



ELLP M



ELLP XL



WEIGHT (Kg)

ELLP XS: **6,0**
ELLP M: **6,4**
ELLP XL: **8,0**

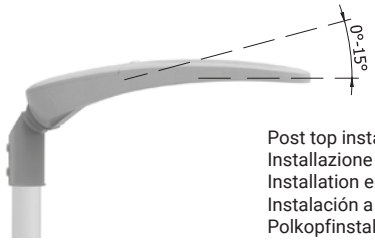
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ELLP XS - M - XL: **-20 ~ +45°C**

ELLP [XS-M-XL]

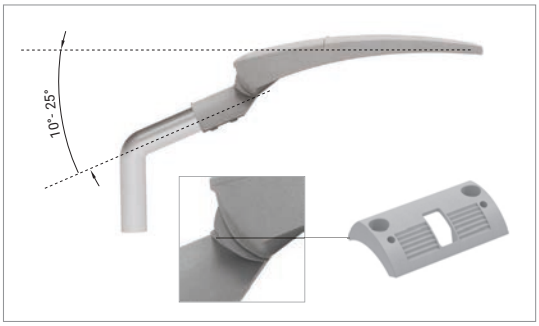
STANDARD FEATURES | INSTALLAZIONI STANDARD | CARACTÉRISTIQUES STANDARD | CARACTERÍSTICAS ESTÁNDAR STANDARD EINGESCHAFTEN | СТАНДАРТНЫЕ ФУНКЦИИ



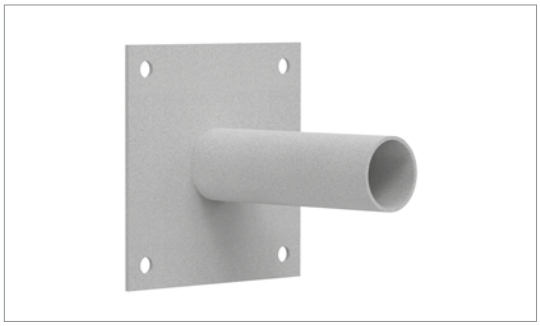


Post top installation
Installazione testa palo
Installation en tete de mat
Instalación a columna
Polkopfinstallation
Пост верхняя установка

ACCESSOIRES FOR SPECIAL INSTALLATIONS | ACCESSORI PER INSTALLAZIONI SPECIALI | ACCESSOIRES POUR INSTALLATIONS SPÉCIALES ACCESORIOS PARA INSTALACIONES ESPECIALES | ZUBEHÖRE FÜR SPEZIELLE INSTALLATIONEN ДЕТАЛИ ДЛЯ СПЕЦИАЛЬНЫХ УСТАНОВОК



KT6001
Adaptor for tilting (10° - 25°)
Adattatore per inclinazione (10° - 25°)
Adaptateur pour inclination (10° - 25°)
Adaptador para inclinación (10° - 25°)
Adapter für Neigung (10° - 25°)
Адаптер для наклона (10° - 25°)



KT6002
Support for wall mounting
Supporto staffaggio a parete
Support pour installation murale
Soporte fijación a pared
Wandhalterung
Настенный кронштейн



KT6003
Adaptor for pole (Ø 76 mm)
Adattatore per palo (Ø 76 mm)
Adaptateur pour mat (Ø 76 mm)
Adaptador de columna (Ø 76 mm)
Poladapter (Ø 76 mm)
Крепление для столба (Ø 76 mm)



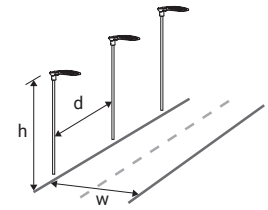
KT6005
2 poles quick plug-in kit for electrical connection
Kit connettori rapidi 2 poli per connessione elettrica
Kit de connexion rapide à 2 pôles pour le raccordement électrique
Kit de enchufes rápidos de 2 polos para conexión eléctrica
2-poliger Schnellsteckersatz für elektrischen Anschluss
2-полюсный комплект быстрых штекеров для электрического подключения

Beam applications

ELLP [XS-M-XL] - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm



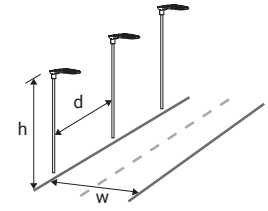
W= 8 m - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm

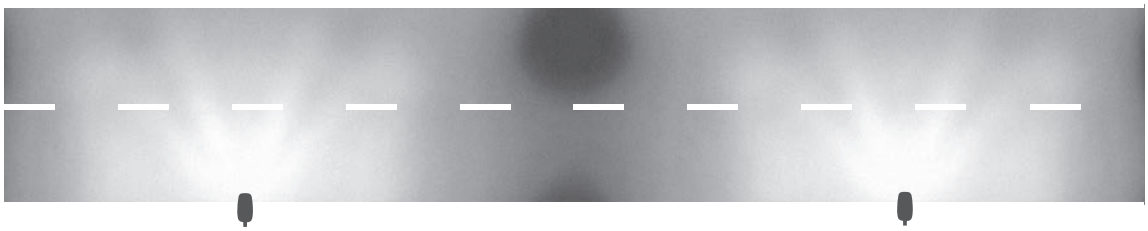


W= 8 m - H= 8m

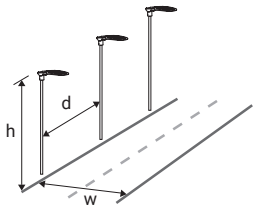
* Uniformity lengthwise not met

Beam applications

ELLP [XS-M-XL] - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm



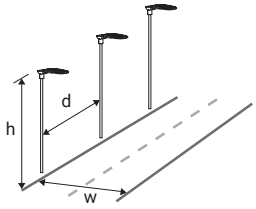
W= 10 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-



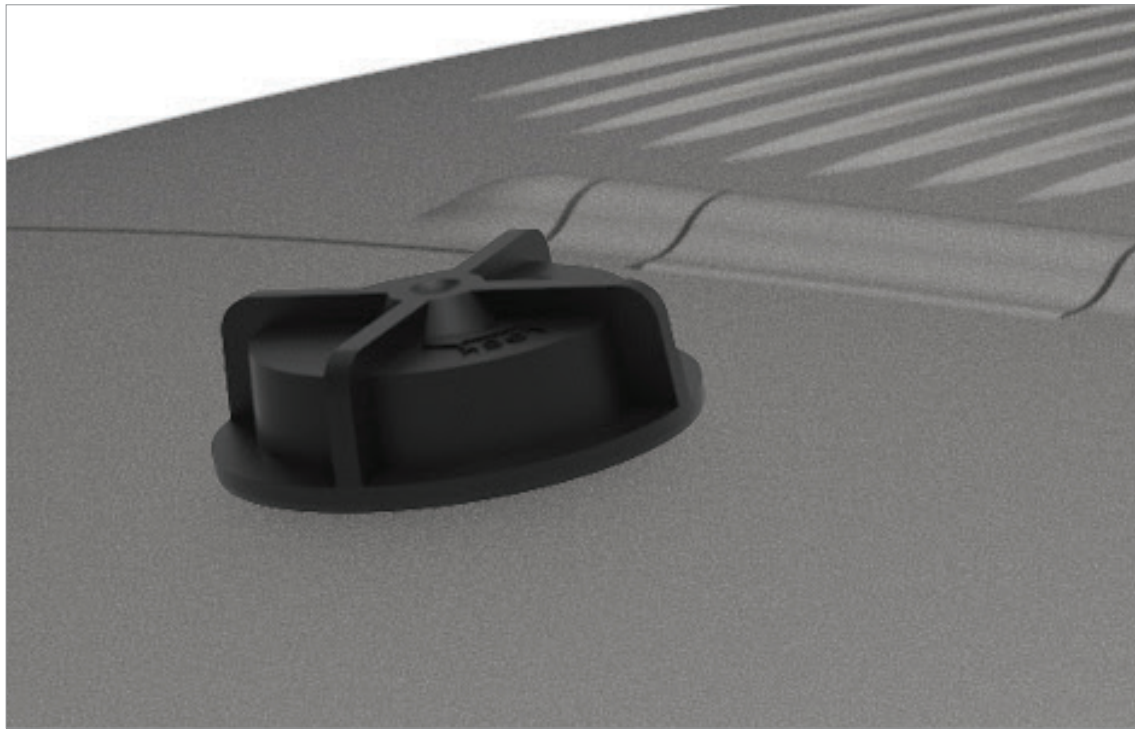
W= 8 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL]







KELPZS - Zagha socket
KELPNS - Nema socket

FP
PROGRAM

Only for full program - Solo per Full Programm - Seulement pour Full Programm - Solo para Full Programm - Nur für Full Programm - Только для полной программы.











BOX

BOX



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminium body painted with epoxy powders after phosphating. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio presso-piegato verniciato con polveri epossidiche previa fosfatazione. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium presse-plié, peinture à base de poudre époxyde et traitement de surface No-Rinse. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio plegado a presión y barnizado con polvos epoxidicos previa fosfatación. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

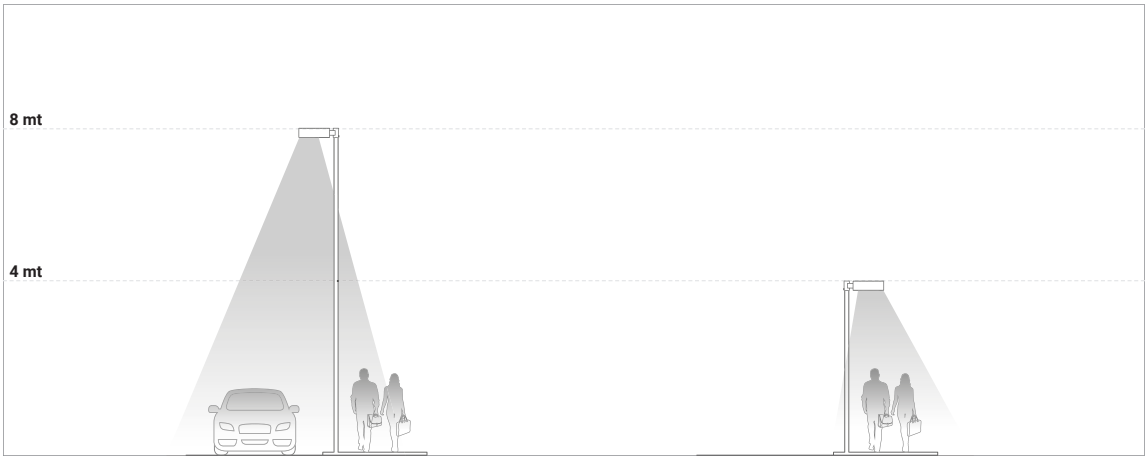
Körper aus Aluminiumdruckguss, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из литого под давлением фосфатированного алюминия, окрашенного эпоксидными порошками. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

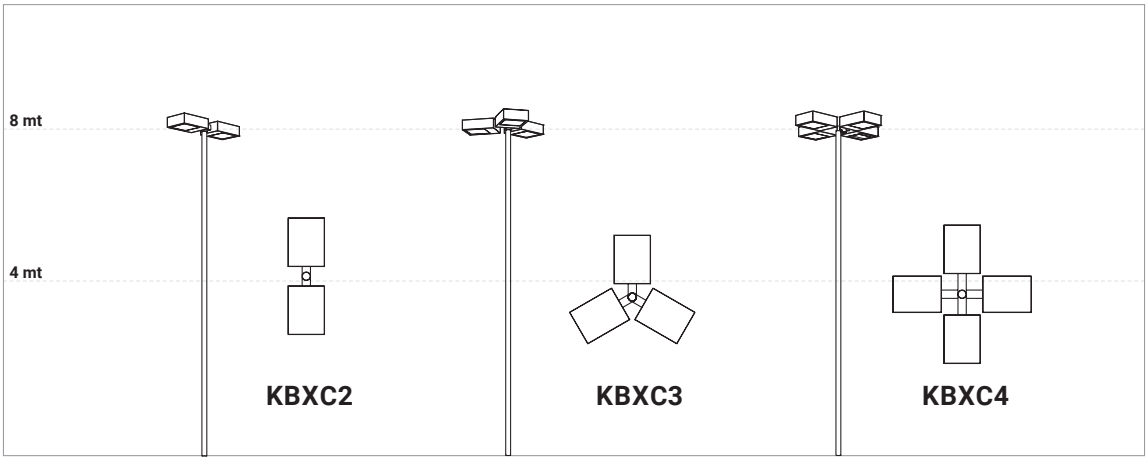
Applications

BOX



Special applications on request

BOX



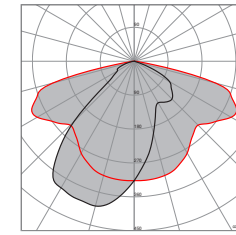


BOX ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

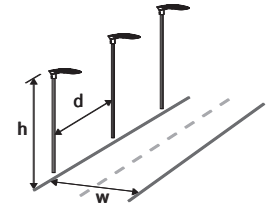
Applications

BOX - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm

* Uniformity lengthwise not met



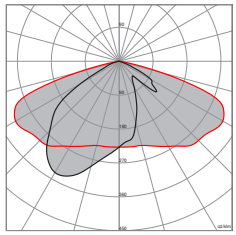
W= 8 **m** - H= 8m

BOX ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST2**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST2**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST2**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST2**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST2**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST2** ES/FP **08**

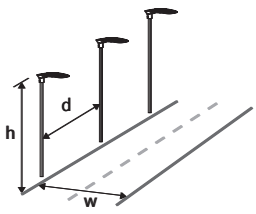
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

Applications

BOX - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm



W= 8 **m** - H= 8m

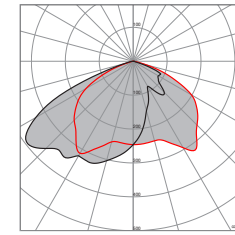
* Uniformity lengthwise not met

BOX AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

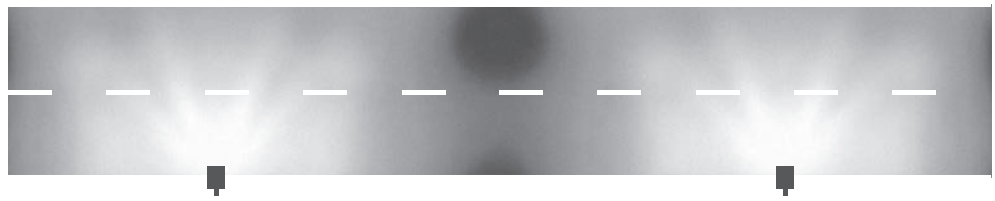
Code

Code Ordering example: **BX0803** W/N **AS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

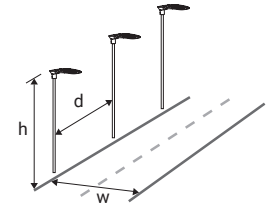
Applications

BOX - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm

* Uniformity lengthwise not met



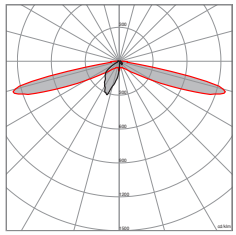
W= 8 m - H= 8m

BOX CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**CP**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**CP**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**CP**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**CP**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**CP**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**CP**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **CP** ES/FP **08**

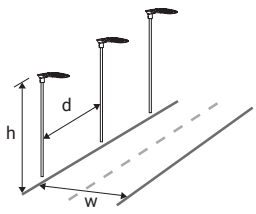
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

Applications

BOX - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI*	UI*	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-

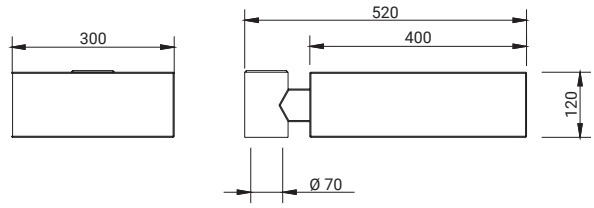


W= 8 m - H= 8m

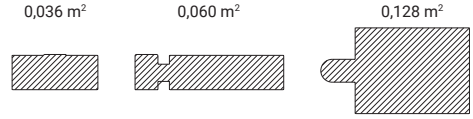
* Uniformity lengthwise not met

BOX

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,5	**-20 ~ +45°C**




COLOMBO
GRUPPO RAINA



GURU TECNO

GURU TECNO



	CE		>70 CRI	>80 CRI	AW AMBER (K)	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695
A++ A+ A	RG 0 EN 62471	6 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA optics with high optical efficiency. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche in PMMA stampato ad alto rendimento ottico. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Fuente de luz LED. Emisión directa.

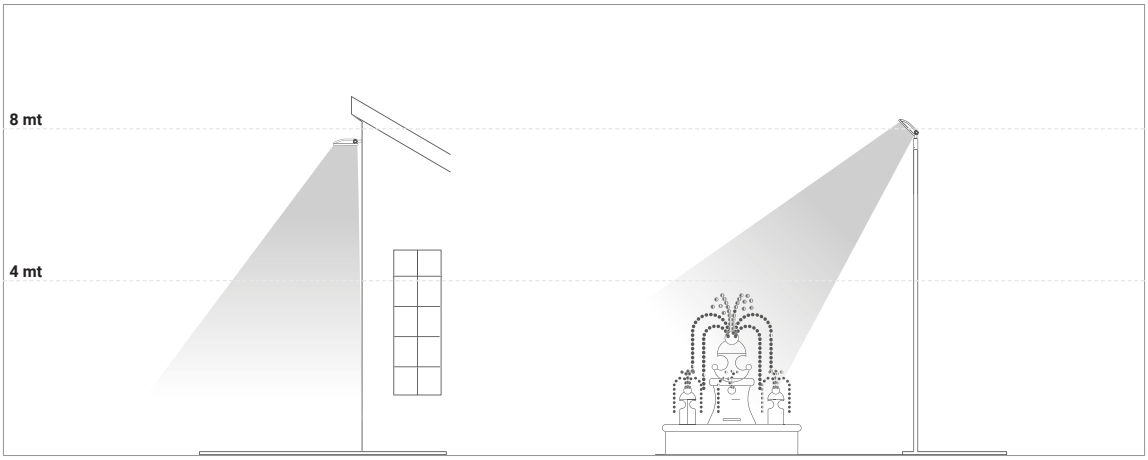
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. LED-Lichtquelle. Direkte Lichtemission.

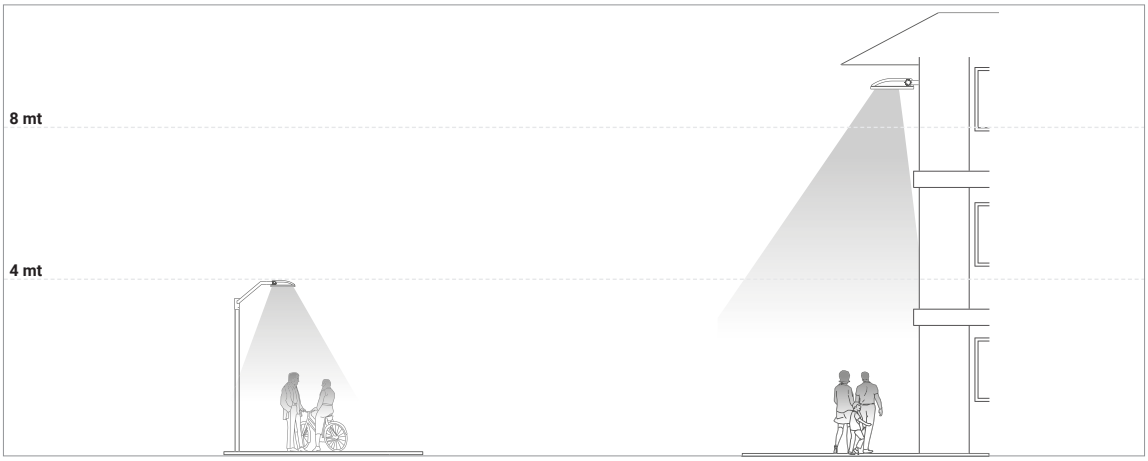
RU

Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Оптика из ПММА с высокой оптической эффективностью. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект Светодиодный источник света. Прямой поток света.

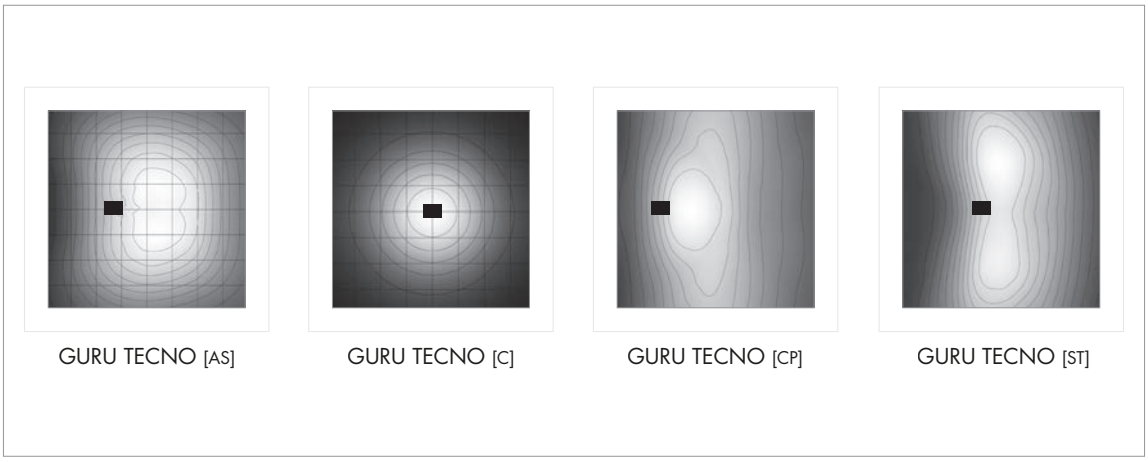
GURU TECNO



GURU TECNO [AS] GURU TECNO [C]



GURU TECNO [CP] GURU TECNO [ST]

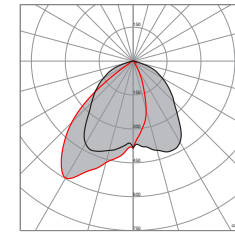


GURU TECNO [AS] GURU TECNO [C] GURU TECNO [CP] GURU TECNO [ST]

GURU TECNO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410ASN08	10250	8890	79	> 112	JM150
KGT732410ASW08	9750	8460	79	> 107	JM150
KGT832410ASN08	9160	7950	80,5	> 99	MBF250
KGT832410ASW08	8730	7575	80,5	> 94	MBF250
KGT32410ASAW08	7365	6390	80	> 80	SAP100
KGT732405ASN08	5540	4805	37	> 130	JM70
KGT732405ASW08	5240	4545	37	> 123	JM70
KGT832405ASN08	5013	4350	37	> 118	MBF125
KGT832405ASW08	4794	4160	37	> 112	MBF125
KGT32405ASAW08	3735	3240	37	> 87	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

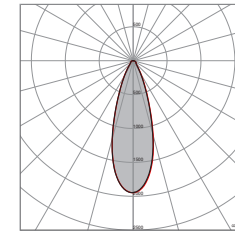
CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

GURU TECNO C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CN08	10250	8952	79	> 113	JM150
KGT732410CW08	9750	8105	79	> 102	JM150
KGT832410CN08	9160	7615	80,5	> 94	MBF250
KGT832410CW08	8730	7260	80,5	> 90	MBF250
KGT32410CAW08	7365	6125	80	> 76	SAP100
KGT732405CN08	5540	4605	37	> 124	JM70
KGT732405CW08	5240	4355	37	> 118	JM70
KGT832405CN08	5013	4170	37	> 113	MBF125
KGT832405CW08	4794	3985	37	> 108	MBF125
KGT32405CAW08	3735	3105	37	> 84	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

Code

Code Ordering example: **KGT732410** **AS** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

GURU TECNO CP

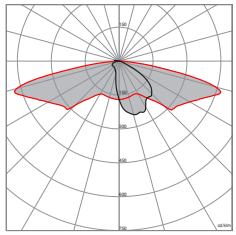


Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CPN08	10250	8750	79	> 111	JM150
KGT732410CPW08	9750	8325	79	> 105	JM150
KGT832410CPN08	9160	7820	80,5	> 97	MBF250
KGT832410CPW08	8730	7455	80,5	> 93	MBF250
KGT32410CPAW08	7365	6290	80	> 79	SAP100
KGT732405CPN08	5540	4730	37	> 128	JM70
KGT732405CPW08	5240	4470	37	> 121	JM70
KGT832405CPN08	5013	4280	37	> 116	MBF125
KGT832405CPW08	4794	4095	37	> 111	MBF125
KGT32405CPAW08	3735	3190	37	> 86	SAP70

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU TECNO ST

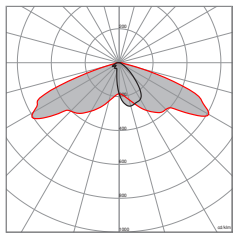


Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410STN08	10250	8050	79	> 102	JM150
KGT732410STW08	9750	7660	79	> 97	JM150
KGT832410STN08	9160	7195	80,5	> 89	MBF250
KGT832410STW08	8730	6860	80,5	> 85	MBF250
KGT32410STAW08	7365	5785	80	> 72	SAP100
KGT732405STN08	5540	4355	37	> 118	JM70
KGT732405STW08	5240	4115	37	> 111	JM70
KGT832405STN08	5013	3940	37	> 106	MBF125
KGT832405STW08	4794	3765	37	> 102	MBF125
KGT32405STAW08	3735	2935	37	> 79	SAP70

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**



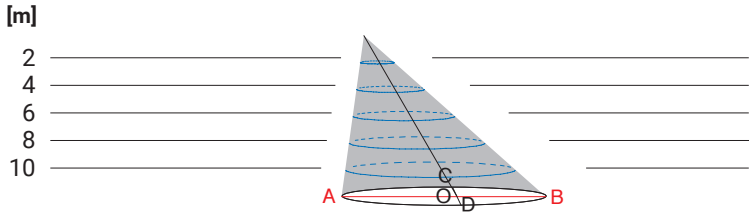
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

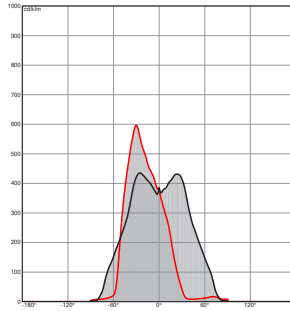
Code

Code Ordering example: **KGT732410** **CP** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

AS [OPTIC]

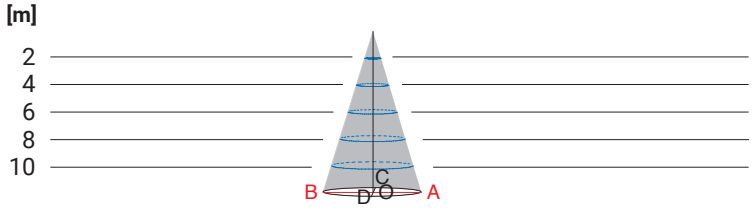


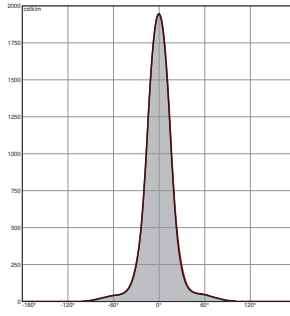


	KGT732410ASN		KGT732410ASW		KGT832410ASN		KGT832410ASW		KGT32410ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	975	495	930	470	870	445	830	420	700	355
4	245	125	235	120	220	110	210	105	175	90
6	110	55	105	52	100	50	95	47	80	40
8	61	55	60	30	55	30	55	25	45	22
10	40	20	37	19	35	18	35	17	30	15

	KGT732405ASN		KGT732405ASW		KGT832405ASN		KGT832405ASW		KGT32405ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	530	270	500	255	475	242	455	230	355	180
4	135	70	125	65	120	60	115	58	90	45
6	60	30	55	28	53	27	51	26	40	20
8	33	17	31	16	30	15	28	14	22	11
10	21	11	20	10	19	10	18	9	14	7

C [OPTIC]

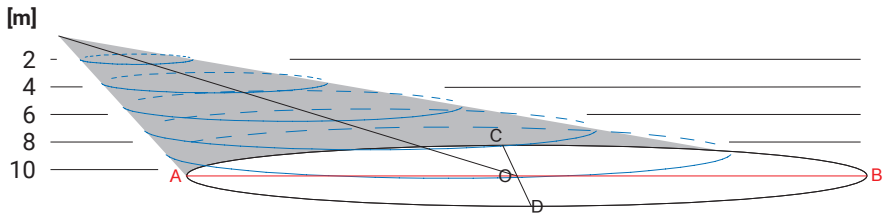


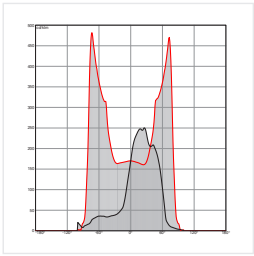


	KGT732410CN		KGT732410CW		KGT832410CN		KGT832410CW		KGT32410CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	4150	2540	3950	1420	3710	2270	3540	2170	2985	1825
4	1040	640	990	605	930	570	885	540	750	460
6	465	285	440	270	415	255	400	240	335	205
8	260	160	250	150	235	145	225	135	190	115
10	166	105	160	100	150	95	140	90	120	73

	KGT732405CN		KGT732405CW		KGT832405CN		KGT832405CW		KGT32405CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	2245	1375	2125	1300	2035	1245	1940	1185	1520	930
4	565	345	530	325	510	310	485	300	380	235
6	250	155	240	145	230	140	220	135	170	105
8	140	90	135	85	130	80	120	75	95	60
10	90	55	85	55	80	50	78	47	60	40

CP [OPTIC]

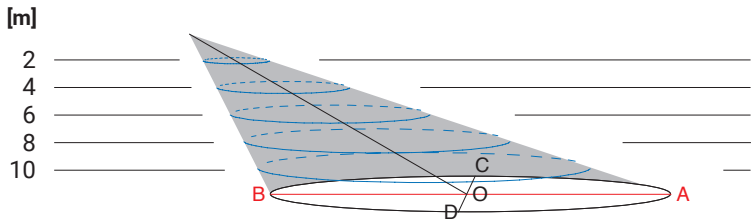


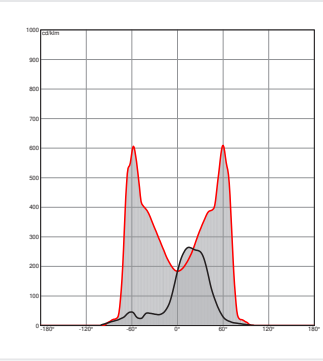


	KGT732410CPN		KGT732410CPW		KGT832410CPN		KGT832410CPW		KGT32410CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	375	35	355	35	335	31	320	30	270	25
4	95	10	90	9	85	8	80	7	70	6
6	45	5	40	5	37	3	35	3	30	3
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

	KGT732405CPN		KGT732405CPW		KGT832405CPN		KGT832405CPW		KGT32405CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	200	20	190	18	182	17	174	16	135	13
4	50	5	47	4	45	4	43	4	34	3
6	22	2	21	2	20	2	19	2	-	-
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

ST [OPTIC]





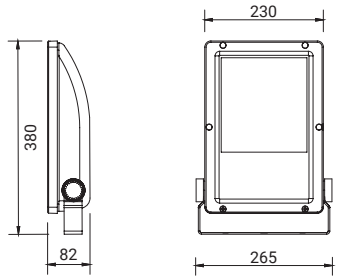
	KGT732410STN		KGT732410STW		KGT832410STN		KGT832410STW		KGT32410STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	500	125	480	120	450	110	430	105	360	88
4	125	31	120	30	115	27	110	26	90	22
6	60	15	55	13	50	12	47	12	40	10
8	31	8	30	7	28	7	27	7	22	5
10	20	5	19	5	18	4	17	4	14	4

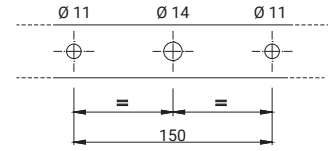
	KGT732405STN		KGT732405STW		KGT832405STN		KGT832405STW		KGT32405STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	270	66	260	62	245	60	234	57	185	45
4	70	17	65	16	60	15	59	14	46	11
6	30	7	30	7	27	7	26	6	20	5
8	17	4	16	4	15	4	15	4	-	-
10	-	-	-	-	-	-	-	-	-	-

A

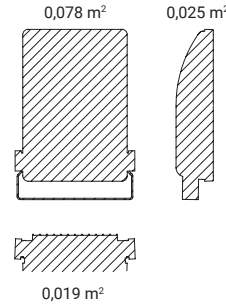
GURU TECNO

DIMENSIONAL + FIXTING





WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**



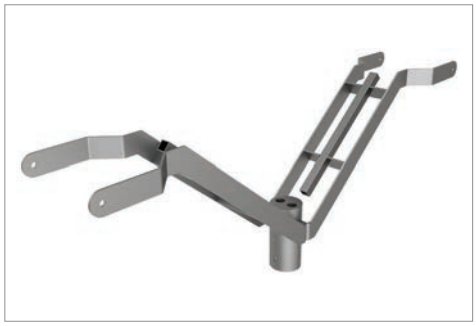
KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)





BROWNIE

BROWNIE



>80 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 09 EN 60068 | 850° EN 60695 | A++ A+ A | RG 0 EN 62471

6 Kv | 08 BLACK METALLIZED | 5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | ES ON/OFF

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head Brownie 0 and D - 76 mm, diameter Brownie T and R). LED light source. Direct light emissione.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm Brownie O e D - diametro 76 Brownie T e R). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre pour Brownie O e D - 76 mm de diamètre pour Brownie T er R). Source lumineuse LED. Emission directe.

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste Brownie O y D - 76 mm de diámetro Brownie T y R). Fuente de luz LED. Emisión directa.

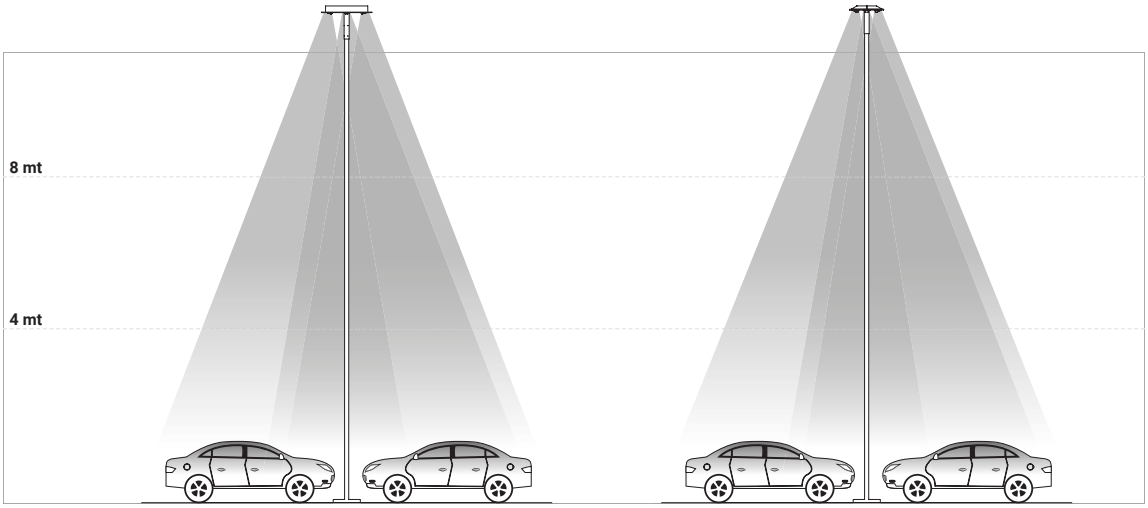
DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm Brownie O und D - durchmesser 76 mm Brownie T und R). LED-Lichtquelle. Direkte Lichtemission.

RU

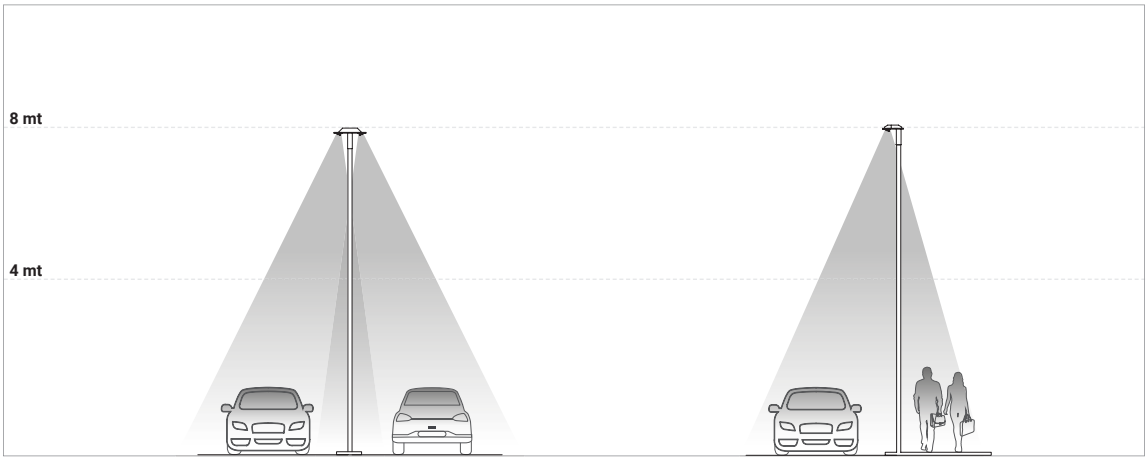
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

BROWNIE



BROWNIE T

BROWNIE R



BROWNIE D

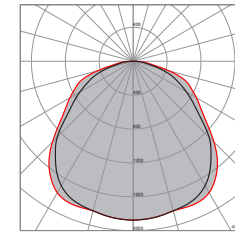
BROWNIE O

BROWNIE R



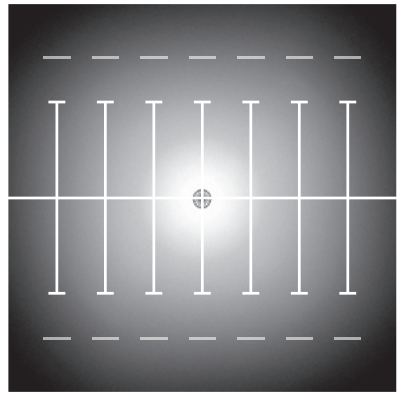
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWR46009W/N**08**	30400	24312	201	> 121	4xSAP100
KBRWR46014W/N**08**	45520	36413	323	> 113	4xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

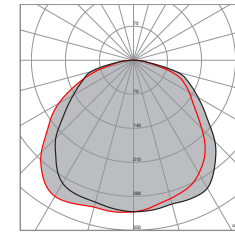


BROWNIE T



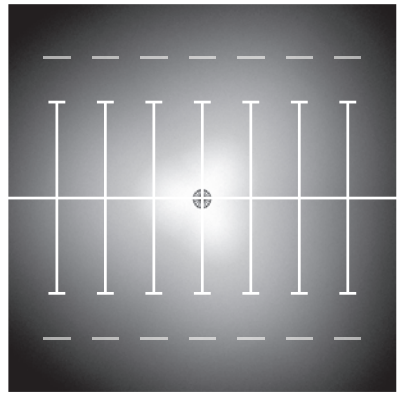
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWT36009W/N**08**	22800	18235	151	> 121	3xSAP100
KBRWT36014W/N**08**	34140	27310	242,5	> 113	3xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

Code Ordering example: **KBRWR46009** W/N **08**

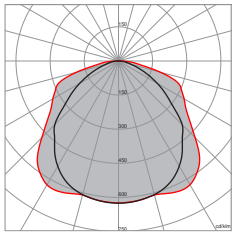
- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWR46009**: Product Code: **KBRWR46009**

BROWNIE D



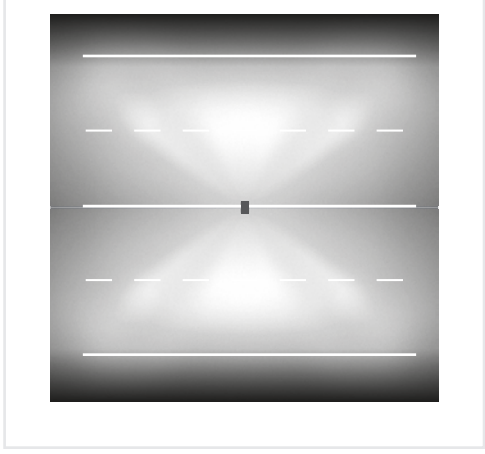
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWD26009W/N**08**	15200	12156	100,5	> 121	2xSAP100
KBRWD26014W/N**08**	24300	18160	160,5	> 113	2xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

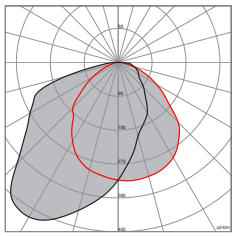


BROWNIE O



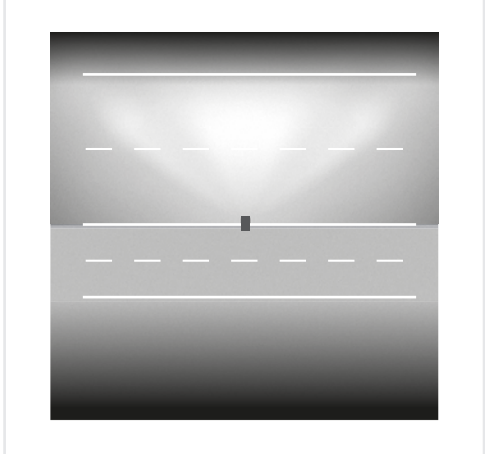
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWO16009W/N**08**	7600	6078	50	> 122	1xSAP100
KBRWO16014W/N**08**	12150	9080	80,5	> 113	1xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

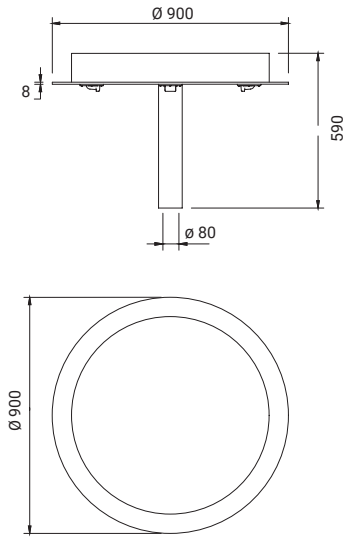
Code Ordering example: **KBRWD26009** W/N **08**

- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWD26009**: Product Code: **KBRWD26009**

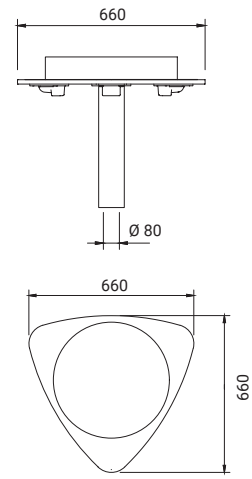
BROWNIE R-T

DIMENSIONAL

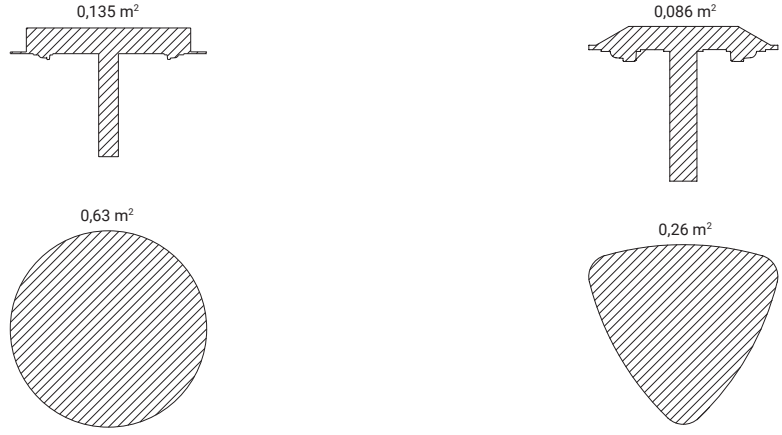
BROWNIE R



BROWNIE T



WIND RESISTANCE



WEIGHT (Kg)

BROWNIE R: **22,0** - BROWNIE T: **16,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE R - T: **-20 ~ +45°C**

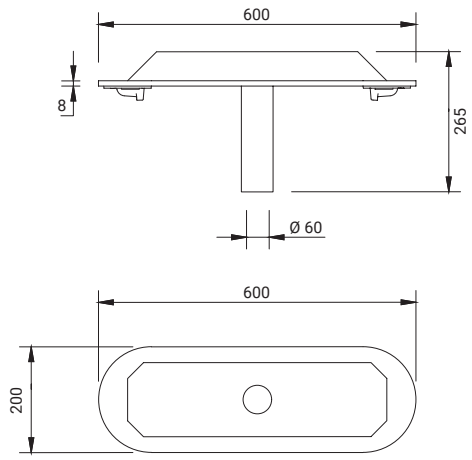
ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Formes, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

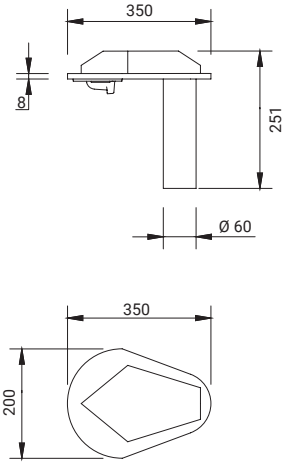
BROWNIE D-O

DIMENSIONAL

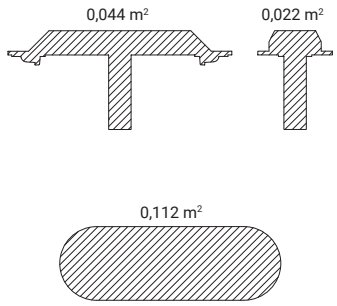
BROWNIE D

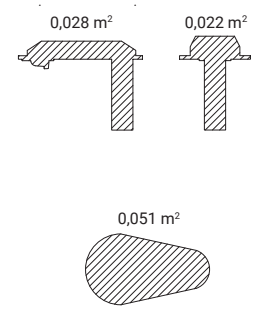


BROWNIE O



WIND RESISTANCE





WEIGHT (Kg)

BROWNIE D: **11,0** - BROWNIE O: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE D - O: **-20 ~ +45°C**

ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность





ZODIAC

ZODIAC



>70 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 08 EN 60068 | 850° EN 60695 | A++ A+ A

RG 0 EN 62471 | 10 Kv | 08 BLACK METALLIZED | NTC TEMPERATURE CONTROL | 5Y WARRANTY 5% FAILURE RATE | 100.000 h LED LIFETIME L90B10 | ES ON/OFF | FP PROGRAM

On request

EN

Shaped aluminum body, by sheet turning, painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio sagomato, mediante tornitura in lastra, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, mis en forme par la méthode du filage , peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio conformado, mediante torneado en la chapa, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Con cable de salida L=40 (cm), conector no incluido. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

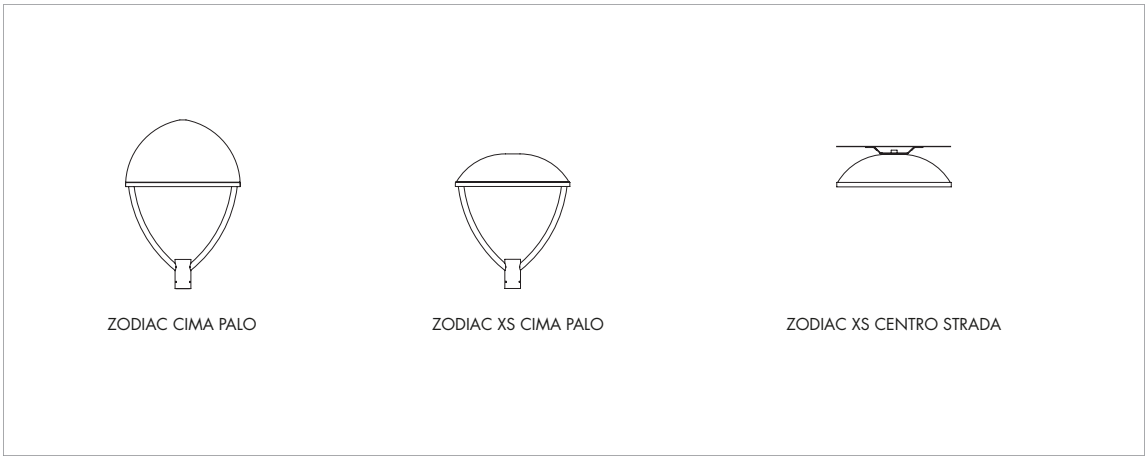
DE

Körper aus geformtem Aluminium, durch Drehen der Platte, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

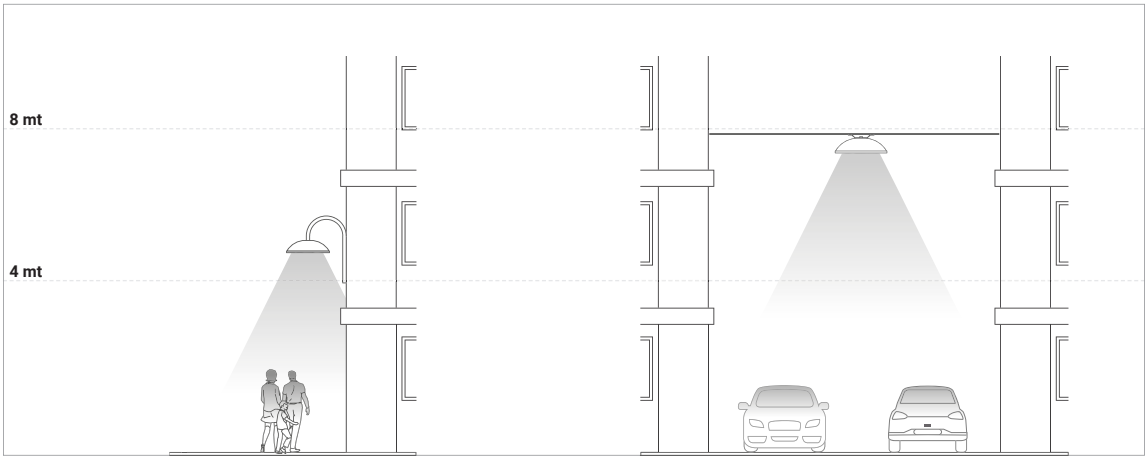
RU

Корпус из формированного алюминия, методом точения из листового материала, окрашеного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

ZODIAC


ZODIAC CIMA PALO
ZODIAC XS CIMA PALO
ZODIAC XS CENTRO STRADA


8 mt
4 mt

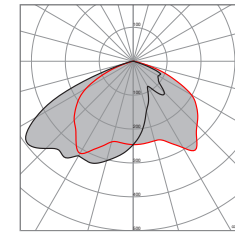

8 mt
4 mt

ZODIAC CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



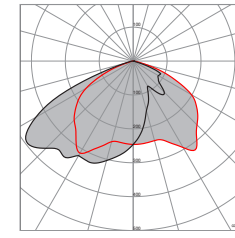
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

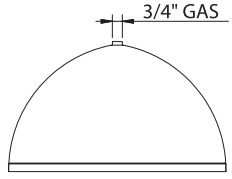
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

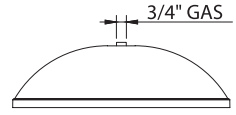
Code

Code Ordering example: **ZDC0803** W/N **AS1** ES/FP **08**

- **08**: Product colour: **08** Black Metalizzed
- ES/FP: Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- AS1: Optic type
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **ZDC0803**: Product Code: **ZDC0803**

On request



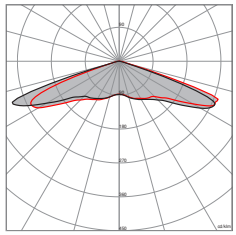


ZODIAC CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



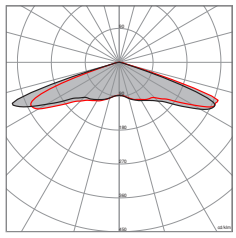
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

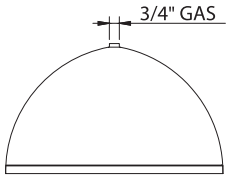
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

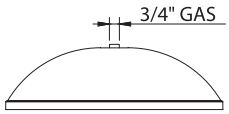
Code

Code Ordering example: **ZDC0803** W/N **RS2** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDC0803**

On request



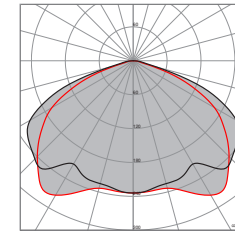


ZODIAC XS CS 1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



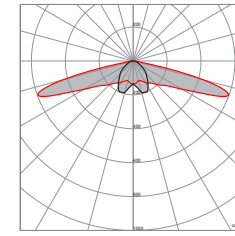
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CS 2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

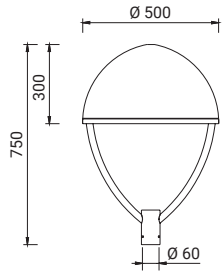
Code Ordering example: ZDCXCS0803 W/N **CS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDCXCS0803**

ZODIAC

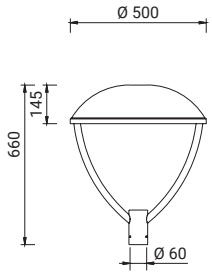
DIMENSIONAL

ZODIAC CIMA PALO



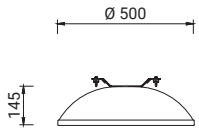
DIMENSIONAL

ZODIAX XS CIMA PALO



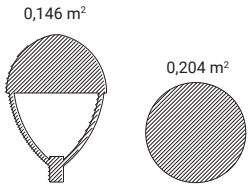
DIMENSIONAL

ZODIAC XS CENTRO STRADA

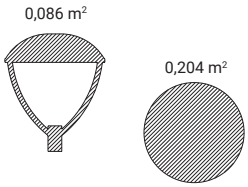


WIND RESISTANCE

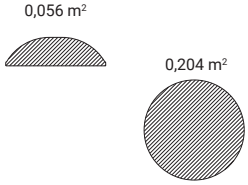
ZODIAC CIMA PALO



ZODIAC XS CIMA PALO



ZODIAC XS CENTRO STRADA



WEIGHT (Kg)

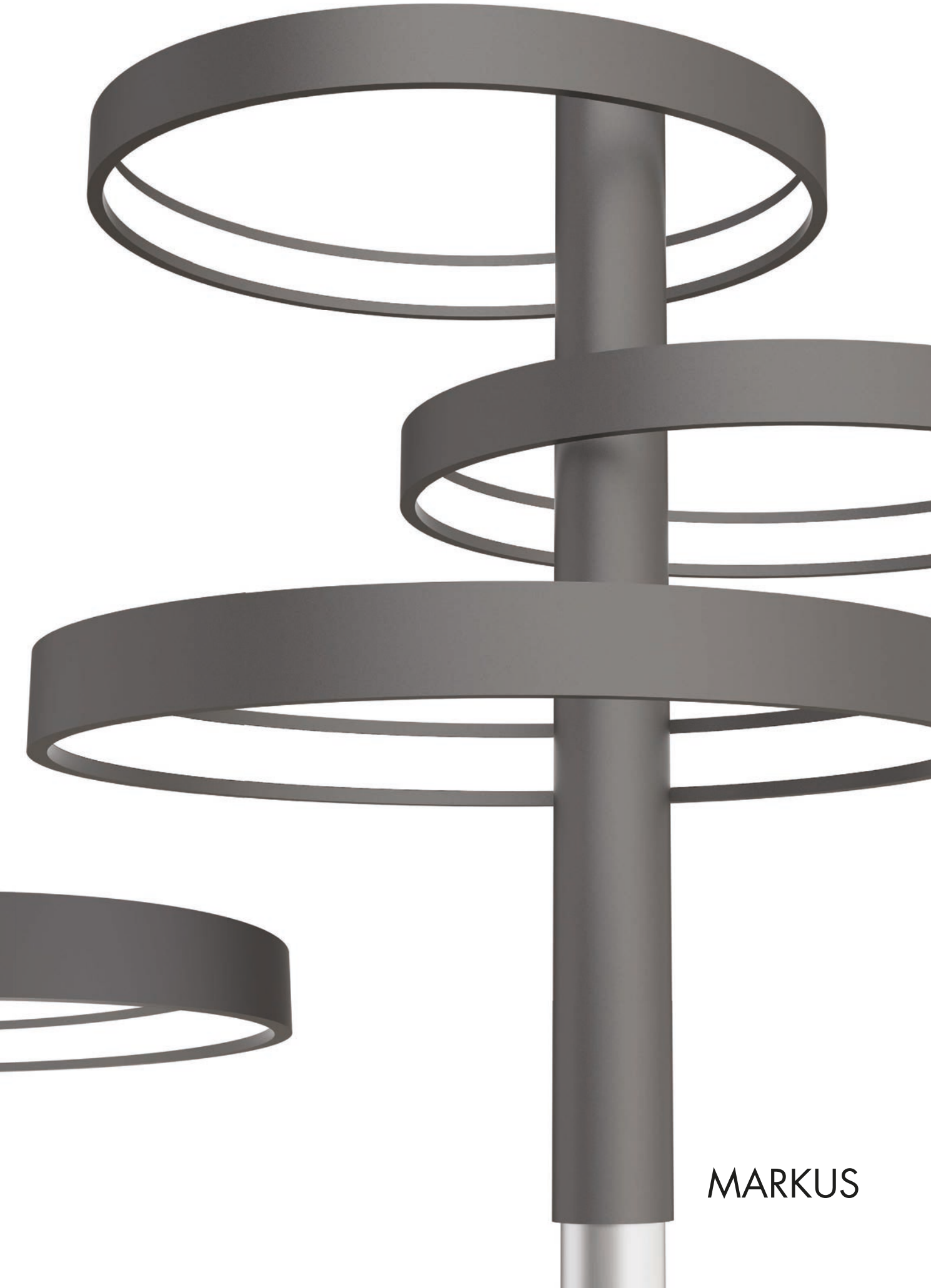
ZODIAC CIMA PALO: **7,5**
ZODIAC CIMA PALO XS: **6,5**
ZODIAC XS CENTRO STRADA: **5,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ZODIAC CIMA PALO - ZODIAC CIMA PALO XS
ZODIAC XS CENTRO STRADA :

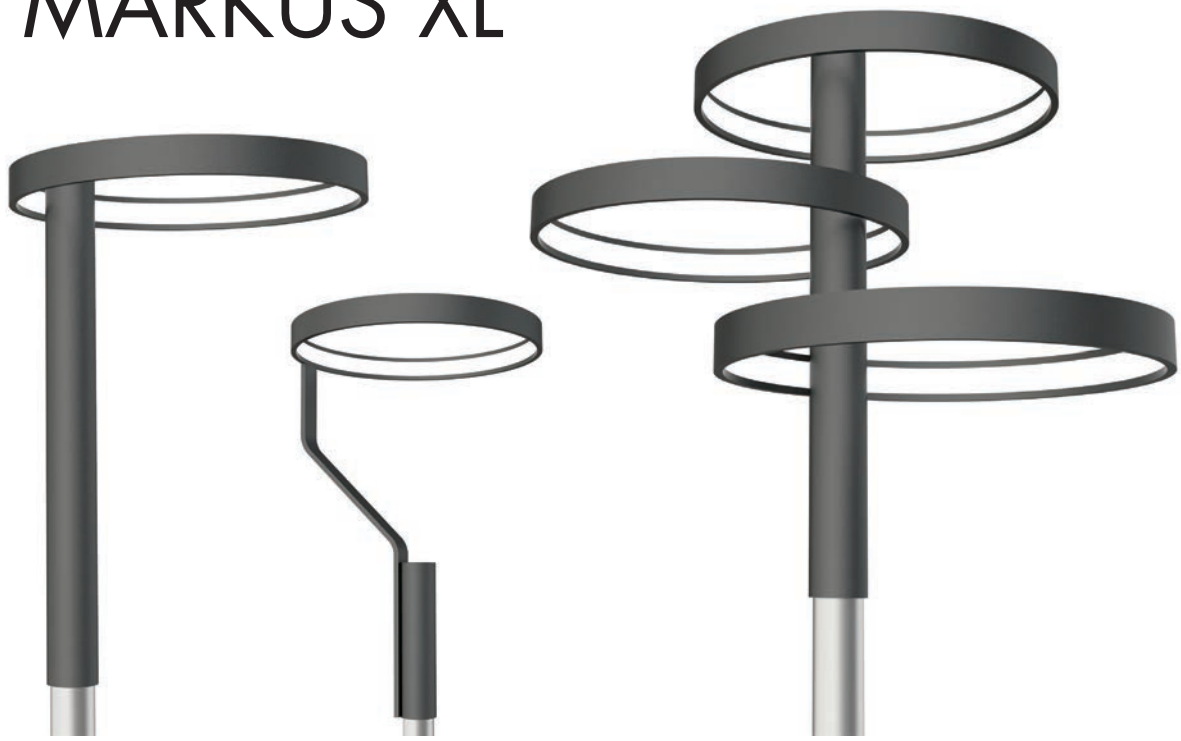
-20 ~ +45°C





MARKUS

MARKUS XL



>80 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 09 EN 60068 | 850° EN 60695 | A++ A+ A | RG 0 EN 62471

6 Kv | 08 BLACK METALLIZED | 5Y WARRANTY 5% FAILURE RATE | 50.000 h LED LIFETIME L80B20 | ES ON/OFF

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Complete with outgoing cable L40 (cm), connector not included. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido Difusor de policarbonado opal. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XL



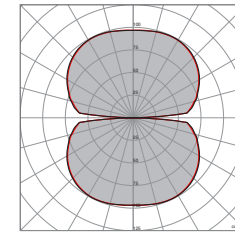


MARKUS XL A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLA1W/N**08**	6000	3150	47	> 67
KMRLA2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



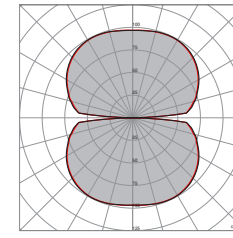
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLB1W/N**08**	6000	3150	47	> 67
KMRLB2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



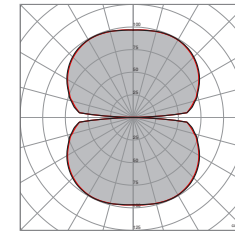
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLC1W/N**08**	9000	4725	70,5	> 67
KMRLC2W/N**08**	18000	9450	141	> 67

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

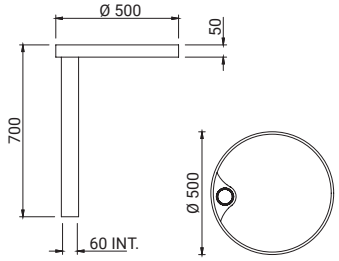
Code Ordering example: **KMRLA1** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMRLA1**

MARKUS XL

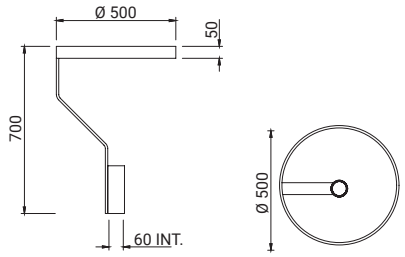
DIMENSIONAL

MARKUS XL A



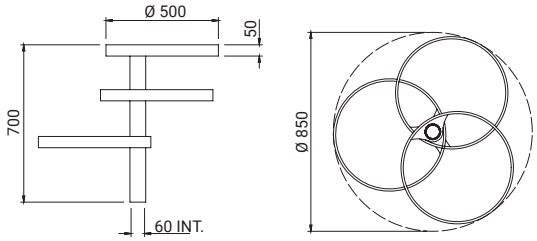
DIMENSIONAL

MARKUS XL B



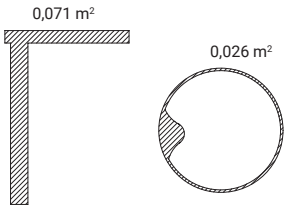
DIMENSIONAL

MARKUS XL C

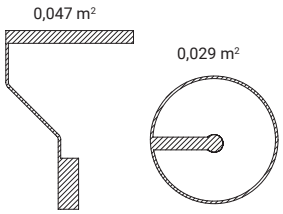


WIND RESISTANCE

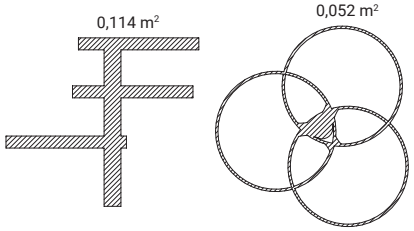
MARKUS XL A



MARKUS XL B



MARKUS XL C



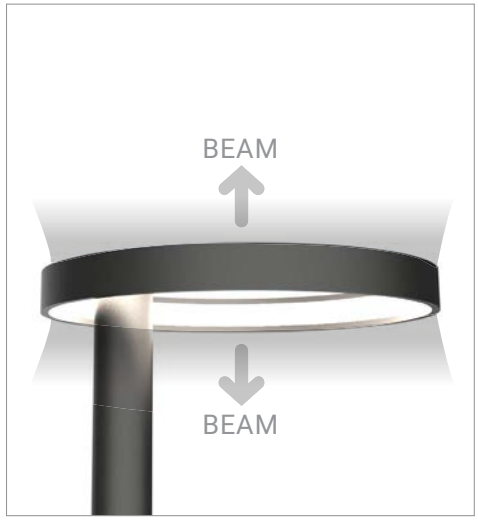
WEIGHT (Kg)

MARKUS XL A: **5,0**
MARKUS XL B: **5,5**
MARKUS XL C: **6,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

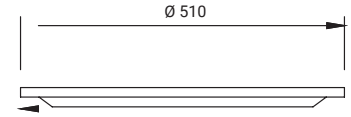
MARKUS XL A - B - C: **-20 ~ +45°C**

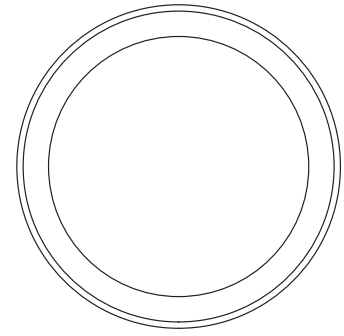
MARKUS XL



MARKUS XL “standard version”



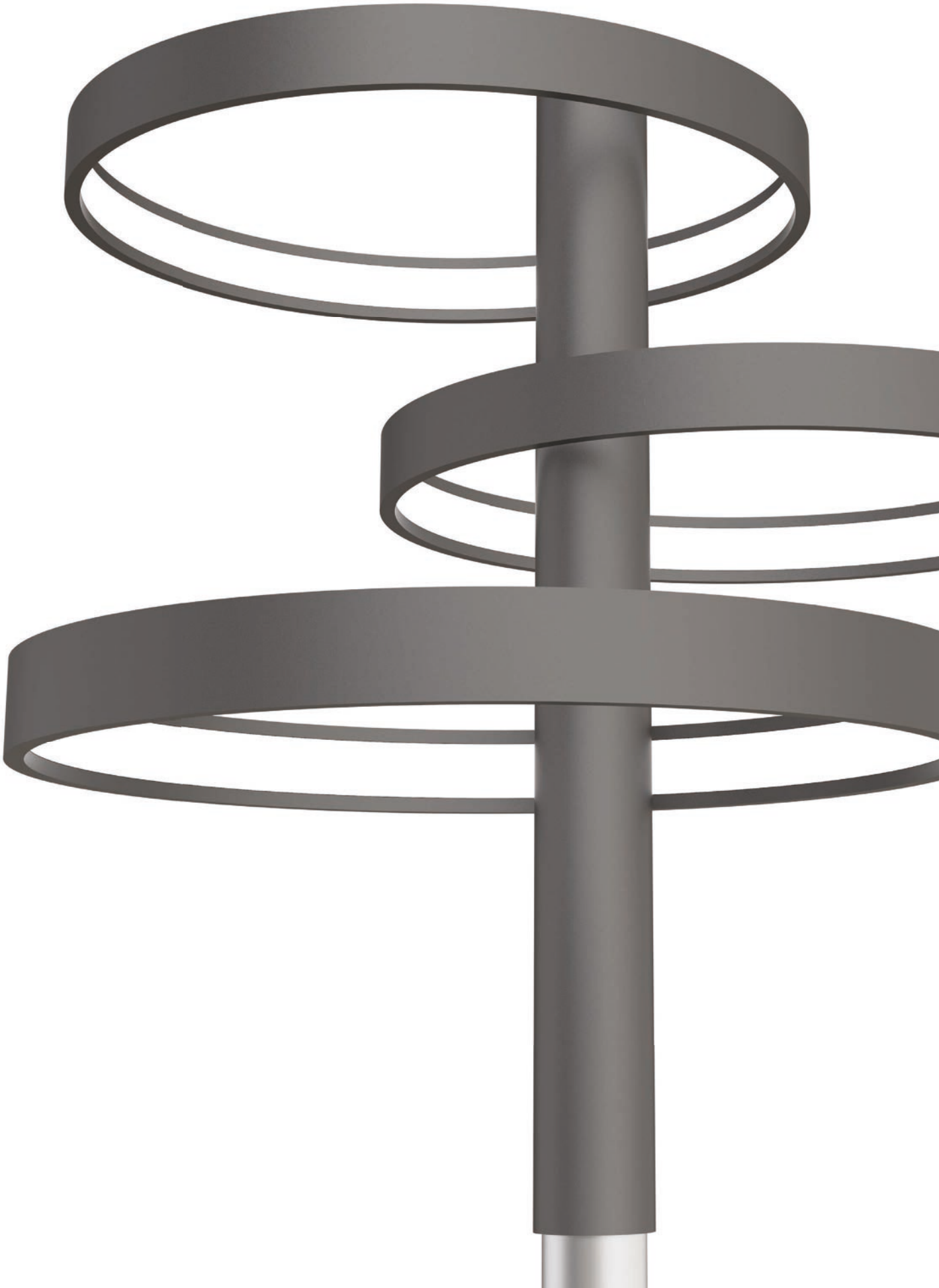




KTMK500

KTMK500

Anti-pollution reflector - Riflettore per antinquinamento luminoso - Réflecteur anti-pollution - Reflector anti-contaminación - Anti-Verschmutzungsreflektor - Отражатель от загрязнения.







MALED

MALED



		CE		>70 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 08 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Complete with outgoing cable L40 (cm), connector not included. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento.Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

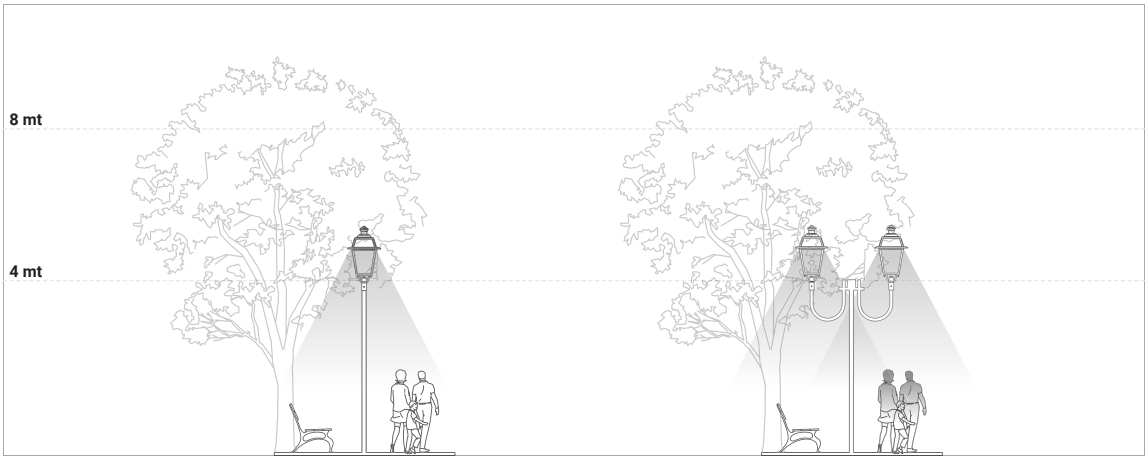
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

MALED



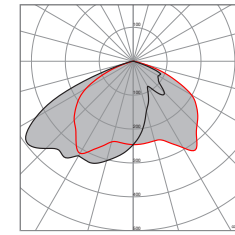


MALED AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



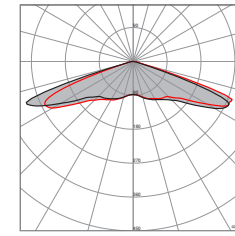
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MALED RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

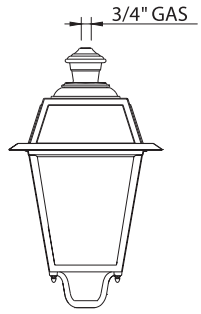
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **MAL0803** W/N **AS1** ES/FP **08**

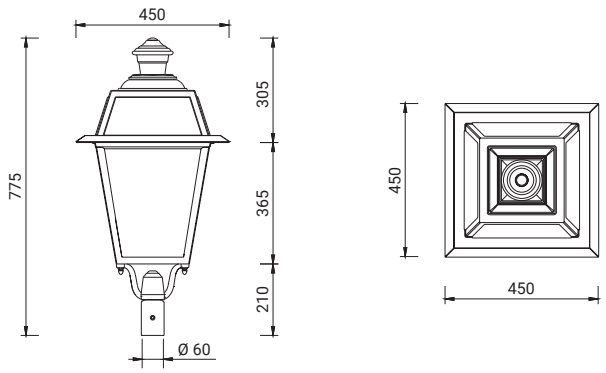
- **08**: Product colour: **08** Black Metalizzed
- ES/FP: Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- **AS1**: Optic type
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **MAL0803**: Product Code: **MAL0803**

On request

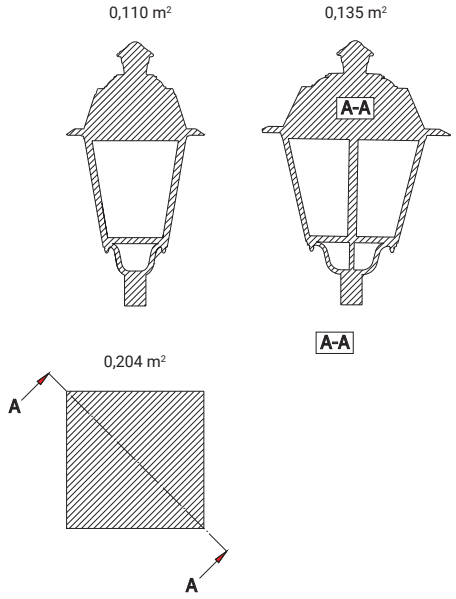


MALED

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
8,0	**-20 ~ +45°C**

Functionalities available on request

FP PROGRAM

A

DALI PROGRAM

EN

DALI DIMM
Dimmable with DALI protocol.

IT

DALI DIMM
Dimmerabile con protocollo DALI

FR

DALI DIMM
Pilotage intelligent gradation (dimming) protocole DALI.

ES

DALI DIMM
Regulable con protocolo DALI.

DE

DALI DIMM
Dimmbar mit DALI-Protokoll.

RU

DALI DIMM
Регулируемая мощность DALI.

AD PROGRAM

EN

TRACKING VOLTAGE
Dimmable by changing the supply voltage; admissible voltage range: 170V-250V.

IT

INSEGUITORE TENSIONE DI INPUT POWER
Dimmerabile variando la tensione di alimentazione; intervallo di tensioni ammesse: 170V-250V.

FR

RÉGULATEUR DE TENSION
variable suivant le voltage ; intervalle compris entre 170V / 250V.

ES

SEGUIDOR DE TENSIONES
Regulable cambiando la tensión de alimentación; rango de voltaje admisible: 170V-250V.

DE

TRACKING VOLTAGE
Dimmbar durch Änderung der Versorgungsspannung; zulässiger Spannungsbereich: 170V-250V.

RU

ТРЕКЕР НАПРЯЖЕНИЯ
Регулируемый путем изменения напряжения питания; допустимый диапазон напряжения: 170 - 250 V.

VM5 PROGRAM

EN

VIRTUAL MIDNIGHT - (5 STEP)
Possibility to program the luminaires so that they automatically recognize the solar midnight setting light dimming levels (up to 5 levels).

IT

MEZZANOTTE VIRTUALE - (5 STEP)
Possibilità di programmare gli apparecchi in modo che riconoscano automaticamente la mezzanotte solare impostando così livelli di dimmerazione della luce (5 livelli) al fine di ridurre gli sprechi durante le ore notturne garantendo comunque un livello minimo di illuminazione di sicurezza.

FR

MINUIT VIRTUEL (5 niveaux)
Possibilité de programmer les appareils de façon à reconnaître automatiquement minuit solaire réglant ainsi des niveaux de gradation de lumière (jusqu'à 5 niveaux).

ES

MEDIANOCHE VIRTUAL (5 NIVELES)
Posibilidad de programar las luminarias regulando el flujo de luz para el ahorro energetico (hasta 5 niveles).

DE

VIRTUELLE MITTERNACHT - (5 SCHRITTE)
Möglichkeit, die Leuchten so zu programmieren, so daß sie die mitternachtssolaren Helligkeitsstufen (bis zu 5 Stufen) automatisch erkennen.

RU

ВИРТУАЛЬНАЯ ПОЛНОЧЬ (5 шагов)
Возможность запрограммировать светильники так, чтобы они автоматически распознавали виртуальную полночь, настраивая таким образом установки уровня яркости света (до 5 уровней).

LS PROGRAM

EN

LINE SWITCH
Two function levels can be selected by wiring only one additional cable with one control phase. By switching the phase "ON" the fitting works at 100% of the allowed power, by switching it "OFF" the fitting works at the default power.

IT

FASI DI COMANDO
Possibilità di definire due livelli di funzionamento che possono essere selezionati cablando un solo cavo aggiuntivo con una fase di comando; con fase aggiuntiva ON l'apparecchio funziona al 100% della potenza permessa, con fase aggiuntiva OFF l'apparecchio si setta sul valore pre-impostato.

FR

GRADATION A COUPURE DE PHASE
Possibilité de définir 2 niveaux de gradation par coupure de phase pilotée par DALI en câblant un seul câble supplémentaire avec une phase de commande ; avec la phase supplémentaire ON l'appareil fonctionne à 100% de la puissance permise, avec la phase supplémentaire OFF l'appareil se règle sur la valeur programmée.

ES

FASE DE MANDO
Posibilidad de definir dos niveles operativos que se pueden seleccionar al cablear un solo cable adicional con una fase de comando; con la fase adicional ENCENDIDO (ON), la luminaria funciona al 100% de la potencia permitida, y con la fase adicional DESACTIVADA (OFF), la luminaria se establece en el valor preestablecido.

DE

BEFEHLSPHASE
Möglichkeit der Definition von zwei Betriebsebenen, die durch Verdrahtung eines zusätzlichen Kabels mit einer Befehlsphase ausgewählt werden können; Wenn die zusätzliche Phase eingeschaltet ist, wird das Gerät mit 100% der zulässigen Leistung betrieben. Wenn die zusätzliche Phase ausgeschaltet ist, wird das Gerät auf den voreingestellten Wert eingestellt.

RU

КОМАНДНАЯ ФАЗА
Возможность определения двух рабочих уровней, которые можно выбрать, подключив один дополнительный кабель с командной фазой; при включенной дополнительной фазе (ON) прибор работает на 100% разрешенной мощности, при выключенной дополнительной фазе (OFF) прибор устанавливается на предварительно установленное значение.

Functionalities available on request

FP PROGRAM

CLO PROGRAM

EN

CONSTANT LUMEN OUT
Due to its own characteristics the LED chip have long life expectations compared to conventional lamps. However they gradually reduce the quantity of the light output during aging until they completely finish their lifetime. In particular working conditions it is possible to use this function in order to guarantee a constant light output by increasing the current drive of the chip LED.Consequently there will be a higher consumptions and the illumination values of the interested area will not change over the time. EASY PROG. version works with the linear increase.

IT

ILLUMINAMENTO COSTANTE
I chip led per loro natura hanno aspettative di vita elevate rispetto ad una lampada convenzionale; durante l'invecchiamento però tendono ad esaurire gradualmente la quantità di luce emessa fino ad esaurirsi a termine della loro vita; in particolari condizioni d'impiego è possibile utilizzare questa funzione al fine di garantire un'emissione luminosa costante nel tempo incrementando la corrente di pilotaggio del chip LED. Ciò vuol dire che si avrà un incremento dei consumi ma è possibile garantire che i valori di illuminamento dell'area interessata non avranno variazioni nel tempo. Versione EASY PROG. Funzionante con incremento lineare.

FR

ILLUMINATION CONSTANTE
Le led par nature a une durée de vie plus élevée en le comparant à une ampoule traditionnelle ; Cependant durant sa vie la quantité de lumière émise tend à baisser graduellement jusqu'à s'éteindre à la fin de son cycle de vie ; dans des conditions particulières d'installations il est possible d'utiliser cette fonction pour garantir une émission lumineuse constante à travers le temps en augmentant le courant pilote du circuit du led. Ceci signifie que l'on aura une consommation majeure mais il est possible de garantir les valeurs des flux lumineux de la zone intéressée sans subir de variations dans le temps.

ES

ILUMINACIÓN CONSTANTE
Los diodos de LED por su naturaleza tienen una alta expectativa de vida en comparación con una lámpara convencional; durante el envejecimiento, sin embargo, tienden a agotar gradualmente la cantidad de luz emitida hasta que se agotan al final de su vida; En condiciones particulares de uso, es posible utilizar esta función a fin de garantizar una emisión de luz constante a lo largo del tiempo, aumentando la corriente de conducción del diodo LED. Esto significa que habrá un aumento del consumo, pero es posible garantizar que los valores de iluminación del espacio en cuestión no sufra variación con el tiempo;

DE

KONSTANTE BELEUCHTUNG
LED-Chips haben von Natur aus eine hohe Lebenserwartung im Vergleich zu einer herkömmlichen Lampe; während des Alterns neigen sie jedoch dazu, die emittierte Lichtmenge allmählich zu verbrauchen, bis sie am Ende ihres Lebens verbraucht sind. Unter bestimmten Einsatzbedingungen ist es möglich, diese Funktion zu nutzen, um eine konstante Lichtemission über die Zeit zu gewährleisten und den Ansteuerstrom des LED-Chips zu erhöhen. Dies bedeutet, dass der Verbrauch zunehmen wird, es kann jedoch gewährleistet werden, dass sich die Beleuchtungswerte des betreffenden Gebiets im Laufe der Zeit nicht ändern.

RU

ПОСТОЯННОЕ ОСВЕЩЕНИЕ
Светодиодные чипы по своей природе имеют большую продолжительность жизни по сравнению с обычной лампой; однако во время старения они имеют тенденцию постепенно снижать эффективность излучаемового света до их полного истощения; в определенных условиях использования можно использовать эту функцию, чтобы гарантировать постоянное излучение света с течением времени, увеличивая ток возбуждения светодиодного чипа. Это означает, что будет увеличение потребления электроенергии, но также можно гарантировать, что уровень освещенности соответствующей области не изменится со временем.

FVL PROGRAM

EN

END OF LED LIFE
The LED module will still be functioning after the guaranteed working hours however the light output will be lower than the entered values. The FVL function works by the activation of a counter, which will make the luminaire blinking for the first seconds after the switch on after reaching the limit of working operation.

IT

FINE VITA LED
Al superamento delle ore di funzionamento garantite, il modulo led continuerà a funzionare ma l'emissione luminosa sarà inferiore rispetto ai valori previsti. Con questa funzione è possibile attivare un contatore che, raggiunto il limite di ore di funzionamento, farà lampeggiare l'apparecchio di illuminazione per i primi secondi di funzionamento all'accensione.

FR

FIN DE VIE DU LED
Au-delà des heures de fonctionnement garanties, le module led continue à fonctionner mais l'émission lumineuse sera inférieure comparée aux valeurs initiales. Grâce à cette fonction il est possible d'activer un compteur qui, une fois la limite d'heures de fonctionnement atteinte, fera clignoter l'appareil d'illumination pendant quelques secondes au moment d'allumer.

ES

FINAL DE VIDA ÚTIL DEL LED
Cuando se exceden las horas de funcionamiento garantizadas, el módulo LED continuará funcionando pero la emisión de luz será inferior a los valores previstos. Con esta función es posible activar un contador que, una vez alcanzado el límite de horas de funcionamiento, hará que el dispositivo de iluminación parpadee durante los primeros segundos del encendido.

DE

LED LEBENSENDE
Wenn die garantierten Betriebsstunden überschritten werden, arbeitet das LED-Modul weiter, aber die Lichtleistung liegt unter den erwarteten Werten. Mit dieser Funktion ist es möglich, einen Zähler zu aktivieren, der bei Erreichen der Betriebsstundenzahl das Leuchten beim Einschalten für die ersten Sekunden des Betriebs zum Blinken bringt.

RU

Конец светодиодной жизни
После превышения гарантированных рабочих часов, светодиодный модуль продолжит работу, но светоотдача будет ниже ожидаемых параметров. С помощью этой функции можно активировать счетчик, который, при достижении предела рабочих часов заставит осветительный прибор мигать в течение первых секунд работы при включении питания.

AST PROGRAM

EN

ADJUSTABLE START UP TIME
This function allows to obtain a gradual start of the light fitting in a time between 1 and 30 seconds.

IT

REGOLAZIONE PERIODO DI ACCENSIONE
Questa funzione consente di ottenere un'accensione graduale del proiettore con un tempo compreso tra 1 e 30 secondi.

FR

RÉGLAGE PÉRIODE D'ALLUMAGE
Cette fonction permet d'obtenir un allumage graduel du projecteur dans un intervalle compris entre 1 et 30 secondes.

ES

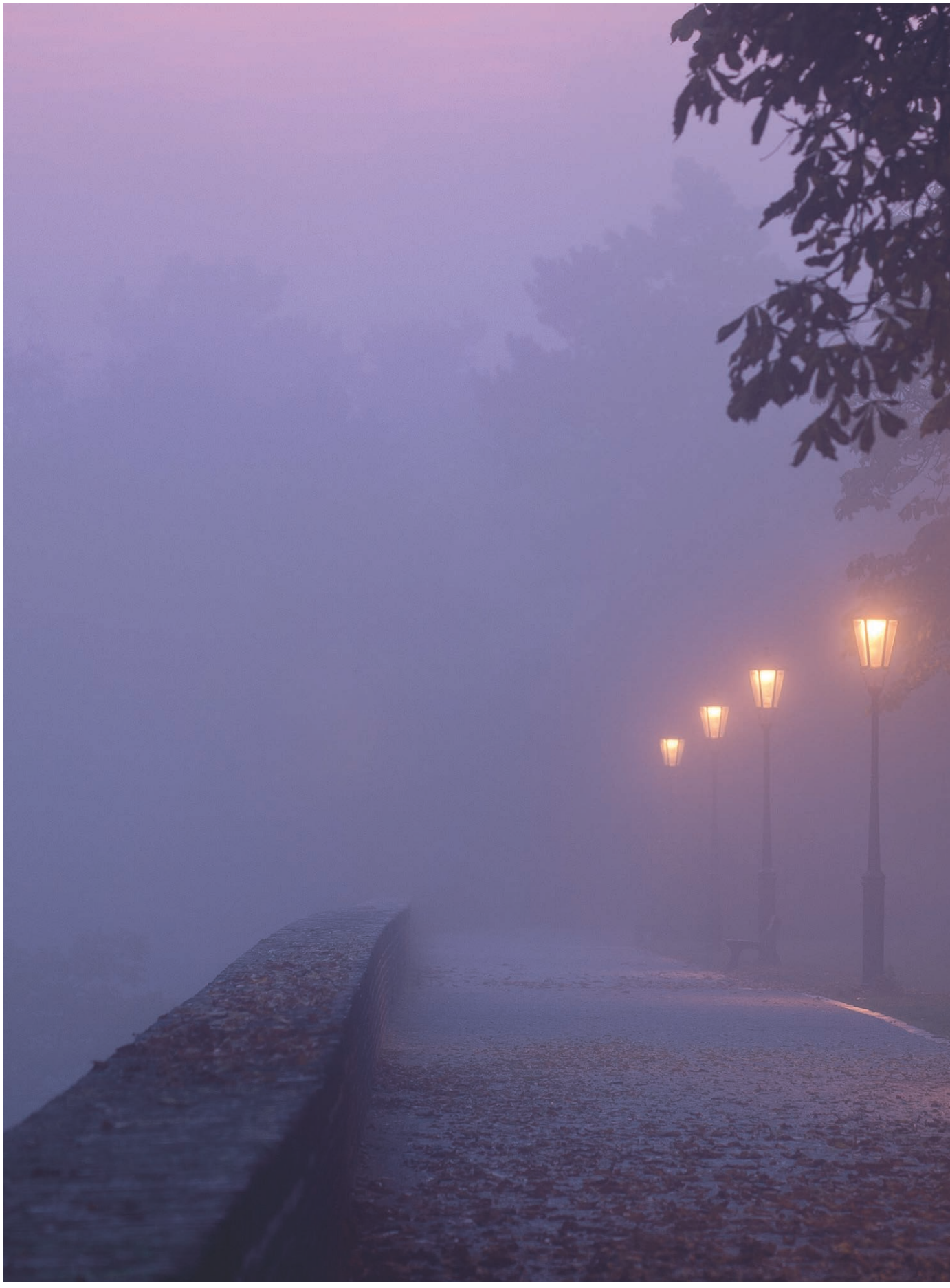
REGULACIÓN DEL TIEMPO DE ENCENDIDO
Esta función permite un encendido gradual del proyector en un tiempo de entre 1 y 30 segundos.

DE

EINSTELLZEIT DER ZÜNDUNG
Diese Funktion ermöglicht ein schrittweises Einschalten des Projektors mit einer Zeit zwischen 1 und 30 Sekunden.

RU

РЕГУЛИРОВКА ВРЕМЕНИ ВКЛЮЧЕНИЯ
Эта функция позволяет включать светильник постепенно, с интервалом временем от 1 до 30 секунд.





Kit RETROFIT





		CE		>80 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 06 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	6 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM	

On request

EN

Universal optic group for energy efficiency of existing street furniture. Steel sheet support painted with epoxy powders after phosphating. Extruded anodized aluminum body with heat-sink function. Molded PMMA street optics with high optical efficiency. LED light source. Direct light emission.

IT

Gruppo ottico universale per l'efficientamento energetico di lampioni ornamentali esistenti. Supporto in lamiera d'acciaio verniciato con polveri epossidiche previa fosfarazione. Corpo in alluminio estruso anodizzato con funzione di dissipatore. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Sorgente luminosa LED. Emissione diretta.

FR

Unité optique universelle pour l'efficacité énergétique des lampadaires ornementaux existans. Support en tole d'aceir, peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Source lumineuse LED Emission directe.

ES

Grupo óptico universal para el efficientamento energético del alumbrado publico existente. Soporte de chapa de acero barnizada con polvo epoxi previamente fosfatado. Cuerpo en aluminio extruido anodizado con función de disipador. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Fuente de luz LED. Emisión directa

DE

Universale optische Gruppe fur die Energieeffizienz bestehender dekorativer StraSSenlaternen. Trager aus Stahlblech, das nach der Phosphatierung mit Epoxidpulvern beschichtet wurde. Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. LED-Lichtquelle. Direkte Lichtemission.

RU

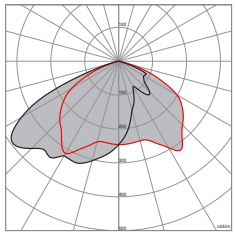
Универсальный оптический блок для энергоэффективности существующих декоративных уличных фонарей. Опора из стального листа, окрашенного эпоксидными красками-порошками после фосфатирования. Анодированный экструдированный алюминиевый корпус с функцией радиатора. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

KIT RETROFIT AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



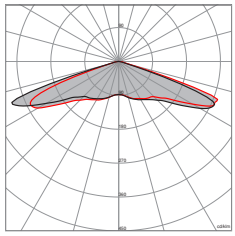
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

KIT RETROFIT RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI

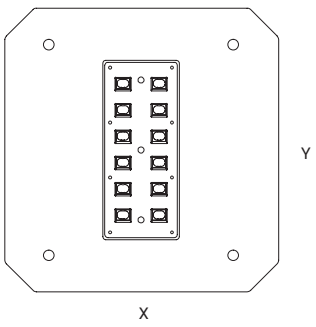


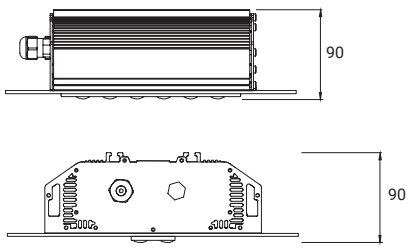
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Mechanical Features

KIT RETROFIT

DIMENSIONAL





X - Y (info):
Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

WEIGHT (Kg)

4,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C



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BOLLARD



B
073


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CALIPSO

CALIPSO



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe.

ES

Cuerpo de aluminio extruido. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

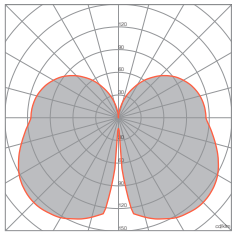
Корпус из экструдированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CALIPSO



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCL06W/N**08**	3000	1550	24	> 63	600 mm
KCL09W/N**08**	4500	2250	36	> 63	900 mm
KCL12W/N**08**	6000	3000	48	> 63	1200 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

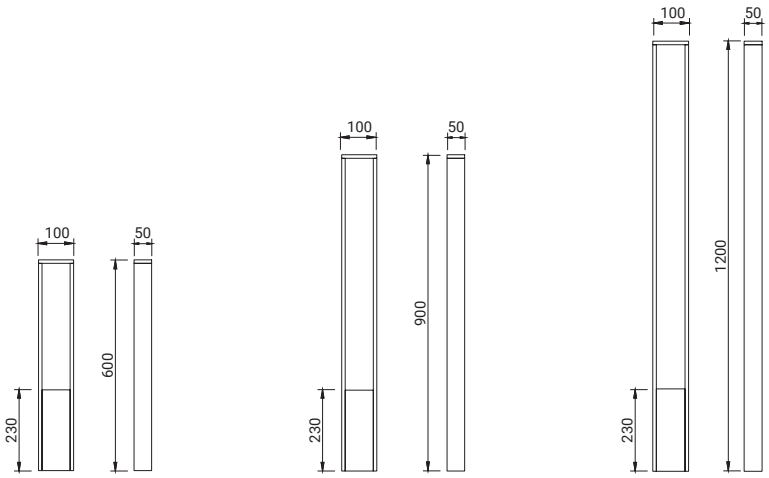
Code

Code Ordering example: **KCL06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCL06**

Mechanical Features

DIMENSIONAL



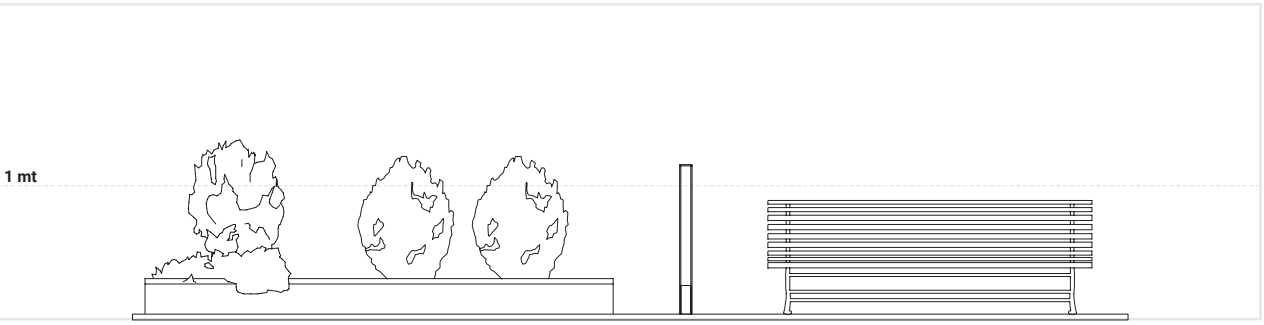
WEIGHT (Kg)

CALIPSO 600: **3,0** - CALIPSO 900: **3,5** - CALIPSO 1200: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

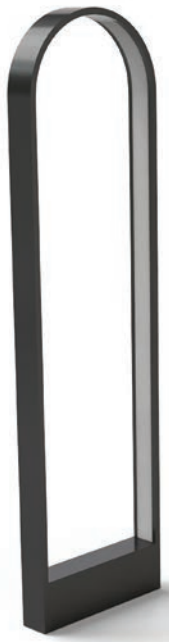
Applications





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DOMINORE

DOMINORE



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

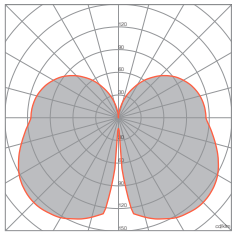
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

DOMINORE



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KDM06W/N**08**	3125	1562	25	> 63	625 mm
KDM09W/N**08**	4500	2250	36	> 63	925 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

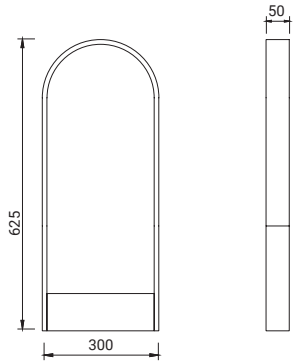
Code

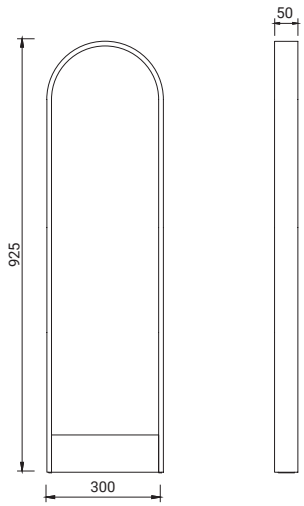
Code Ordering example: **KDM06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KDM06**

Mechanical Features

DIMENSIONAL





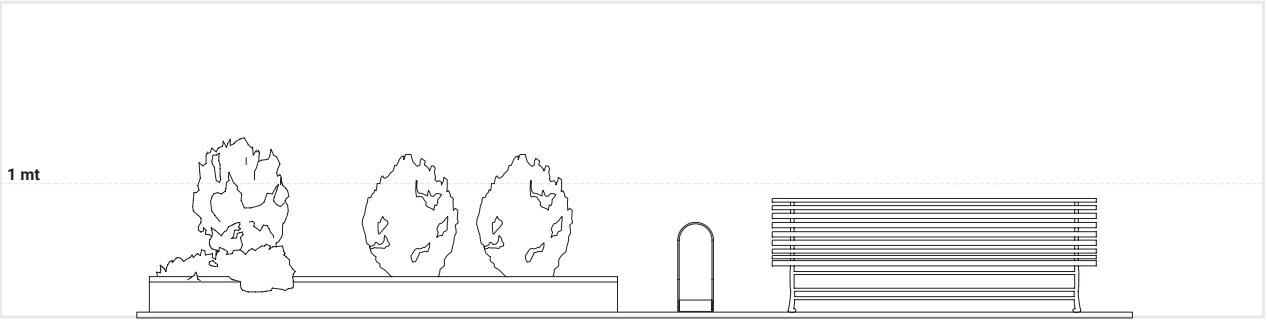
WEIGHT (Kg)

DOMINORE 625: **4,5** - DOMINORE 925: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

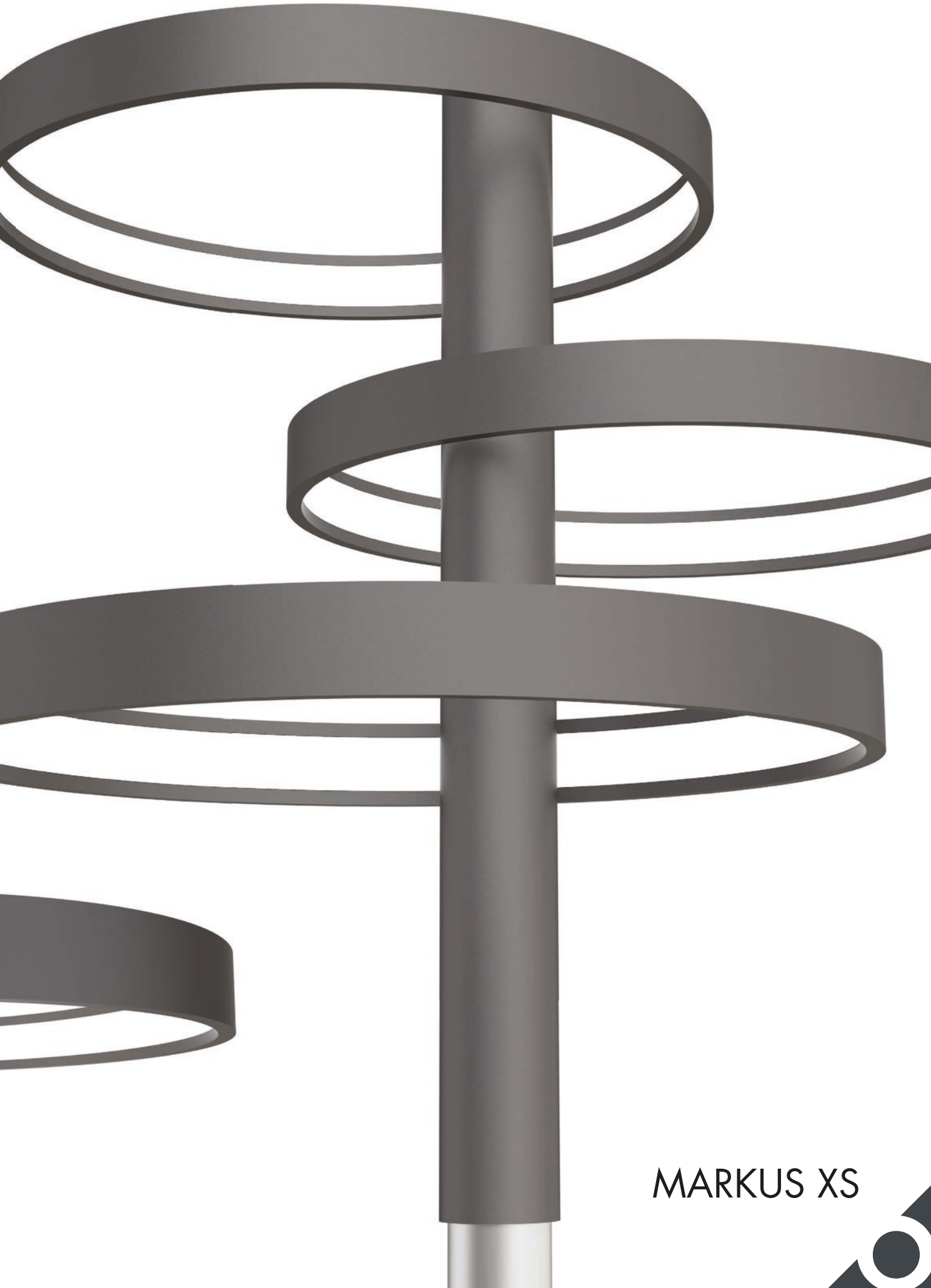
-20°C ~ +45°C

Applications



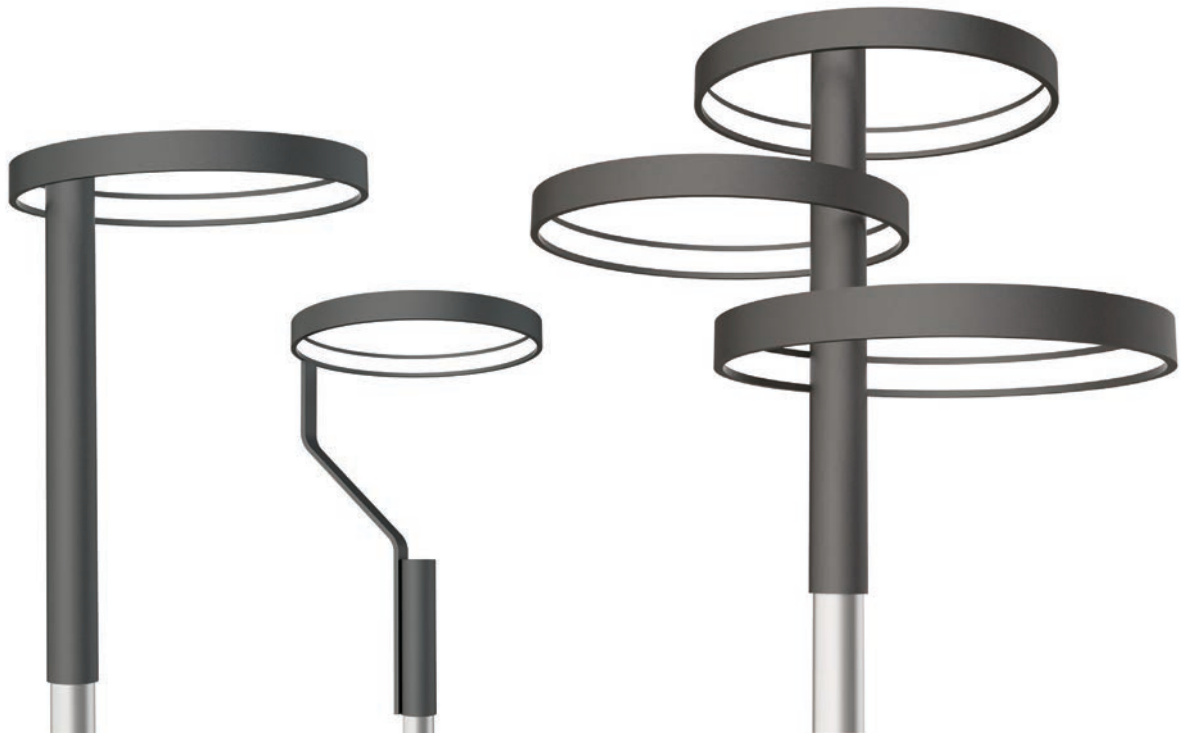


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MARKUS XS

MARKUS XS



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido. Difusor de policarbonado opal. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XS



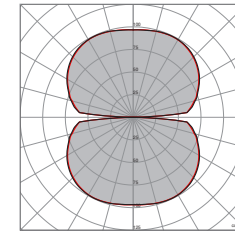


MARKUS XS A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSA1W/N**08**	2250	1125	18	> 63
KMRSA2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K)



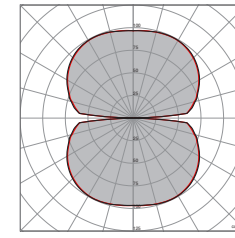
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSB1W/N**08**	2250	1125	18	> 63
KMRSB2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K



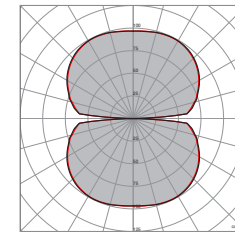
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSC5W/N**08**	6750	3375	54	> 63

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

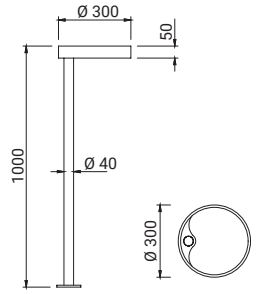
Code Ordering example: **KMRSA1** W/N **08**

- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KMRSA1**: Product Code: **KMRSA1**

MARKUS XS

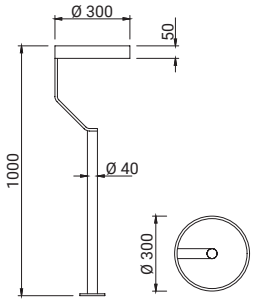
DIMENSIONAL

MARKUS XS A



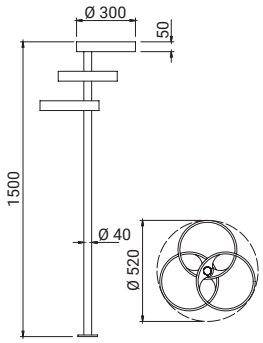
DIMENSIONAL

MARKUS XS B



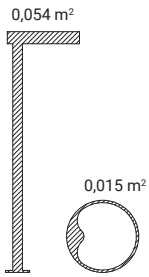
DIMENSIONAL

MARKUS XS C

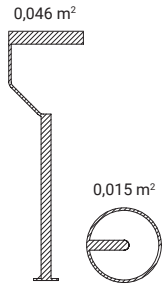


WIND RESISTANCE

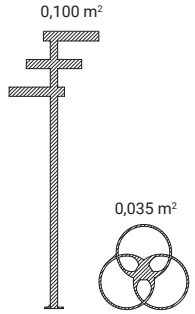
MARKUS XS A



MARKUS XS B



MARKUS XL C

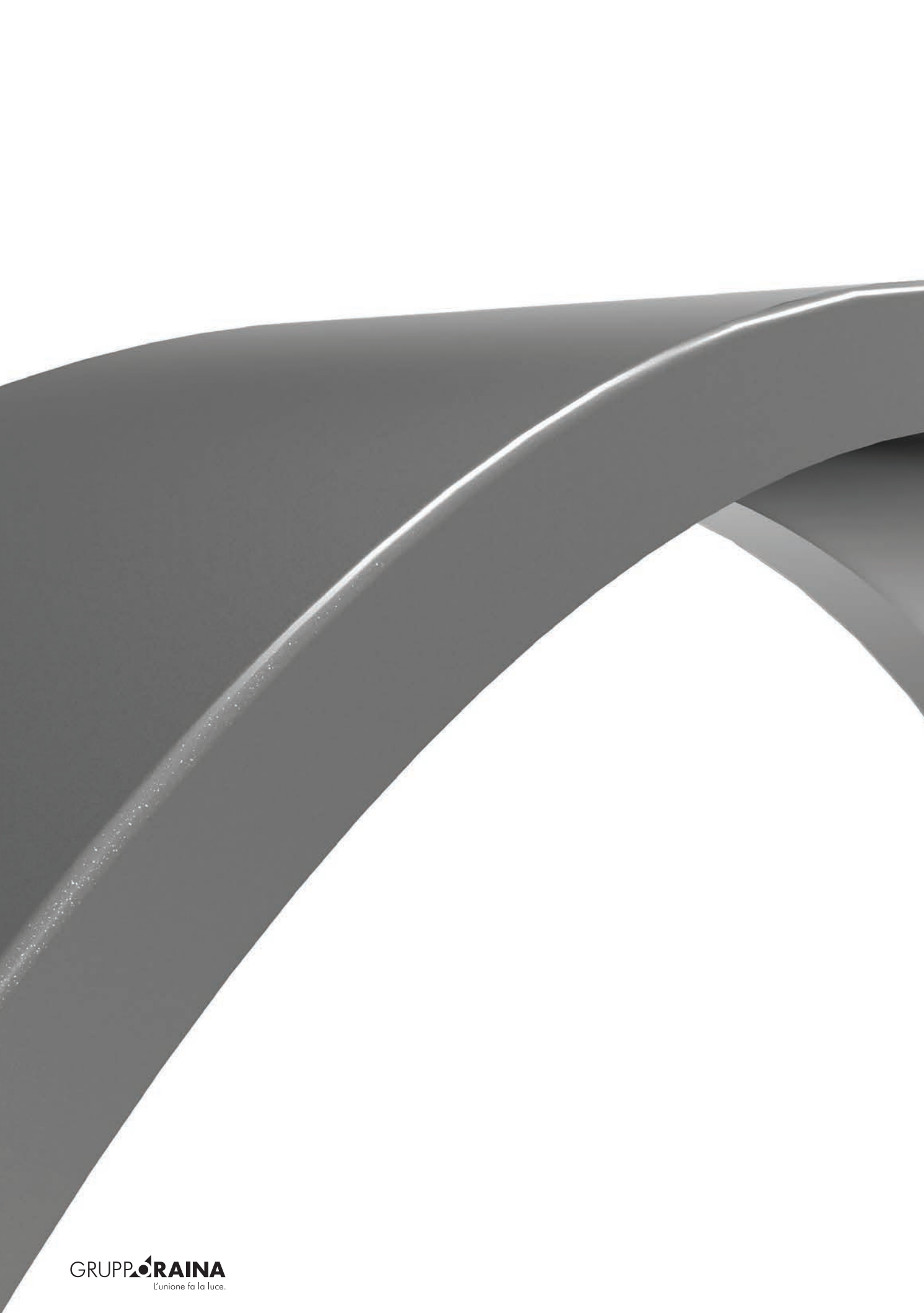


WEIGHT (Kg)

MARKUS XS A: **4,0**
MARKUS XS B: **4,5**
MARKUS XS C: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MARKUS XS A - B - C: **-20 ~ +45°C**



GRUPPO RAINA
L'unione fa la luce.



CROKET

CROKET



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LEDLeuchtmittel. Direkte Lichtemission.

RU

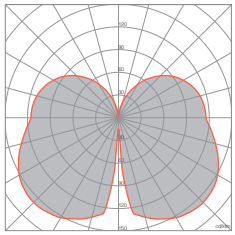
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CROKET



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCK03W/N**08**	1000	500	6	> 83	145 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

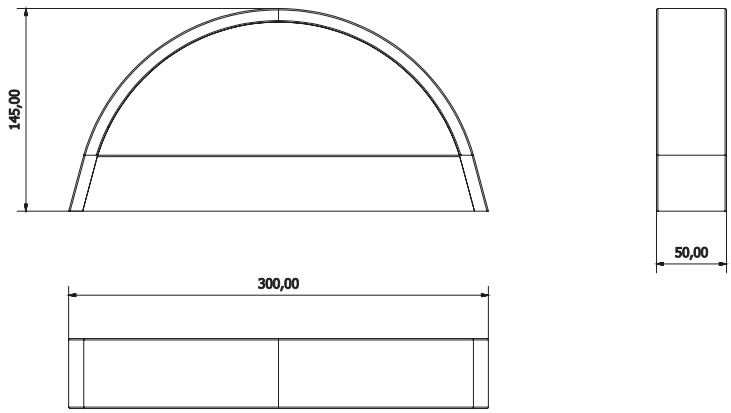
Code

Code Ordering example: **KCK03** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCK03**

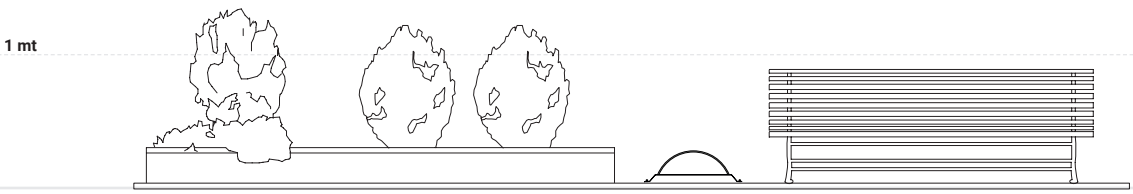
Mechanical Features

DIMENSIONAL



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
1,5	**-20°C ~ +45°C**

Applications





GRUPPO RAINA
L'unione fa la luce.



AIRON

AIRON



>80 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 09 EN 60068 | 850° EN 60695 | A++ A+ A | RG 0 EN 62471

3 Kv | 08 BLACK METALLIZED | 5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | CAE ON/OFF

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. IP65 printed silicon optical unit. LED light source Direct light emission.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Gruppo ottico in silicone stampato IP65. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Groupe optique en silicone imprimé IP65. Source lumineuse LED. Emission directe

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Grupo óptico en silicona impresa IP65. Fuente de luz LED. Emisión directa

DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. LED-Lichtquelle Direkte Lichtemission

RU

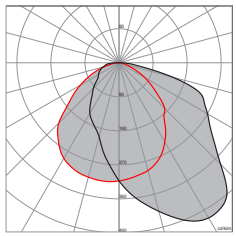
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Литая силиконовая оптика с защитой IP65. Светодиодный источник света. Прямой поток света.

AIRON



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KAR1400305W/N**08**	1800	1320	11	> 120	500 mm
KAR1400309W/N**08**	1800	1320	11	> 120	900 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

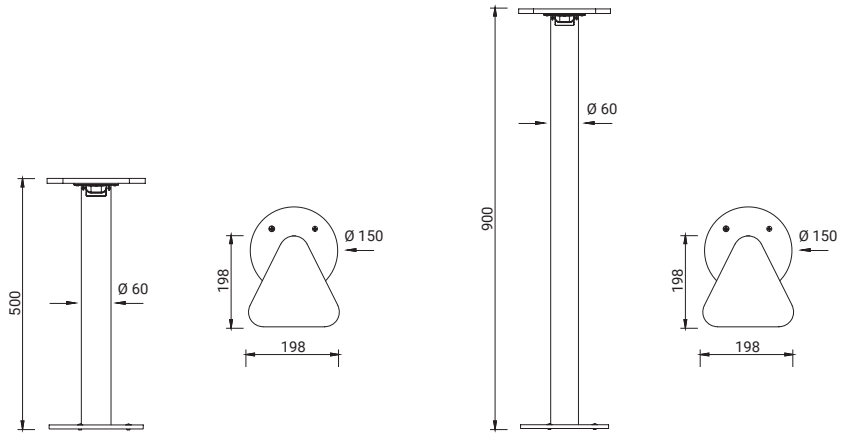
Code

Code Ordering example: **KAR1400305** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KAR1400305**

Mechanical Features

DIMENSIONAL



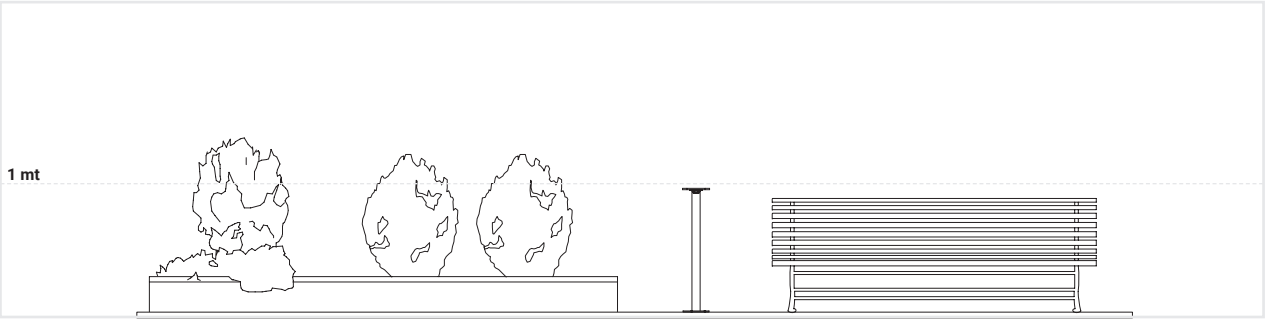
WEIGHT (Kg)

AIRON 500: **3,5** - AIRON 900: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications



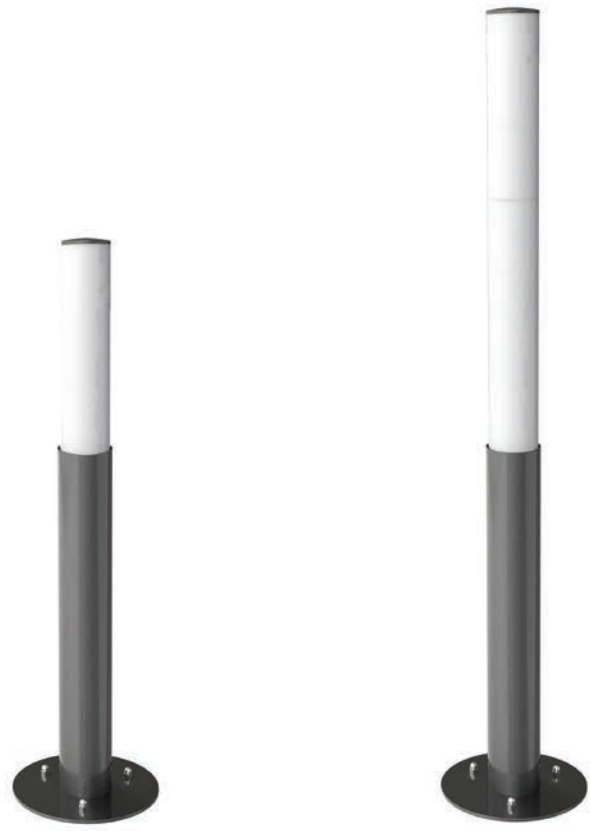


GRUPPO RAINA
L'unione fa la luce.



MADAI

MADAI



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		CAE ON/OFF			

EN

Extruded aluminium body. Opal polycarbonate closing reflector. Anti-scratch epoxy powder paint finish after phosphating. LED light source. Direct light emission.

IT

Corpo in alluminio estruso. Schermo di chiusura in policarbonato opalino. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium extrudé. Écran de fermeture en polycarbonate opale. Finition de peinture en poudre époxy anti-rayures. Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio extruido. Difusor de policarbonato opal. Recubierta con polvo epoxi anti-rayado previa fosfatación. Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Abdeckschirm aus opalem Polycarbonat. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. LED-Lichtquelle. Direkte Lichtemission.

RU

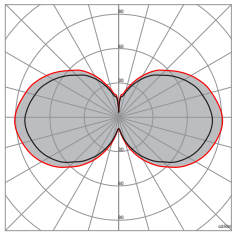
Корпус из экструдированного алюминия. Закрывающий экран выполнен из матового поликарбоната. Покрытие устойчивым к царапинам эпоксидным порошком. Светодиодный источник света. Прямой поток света.

MADAI



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMD0611W/N**08**	3200	1580	25	> 63	h 605-1125

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

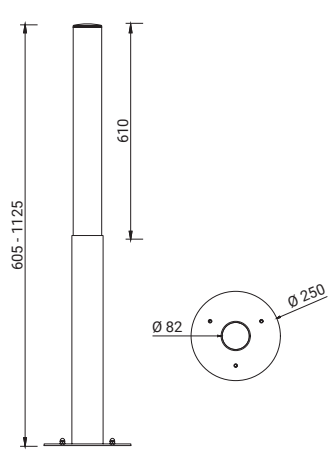
Code

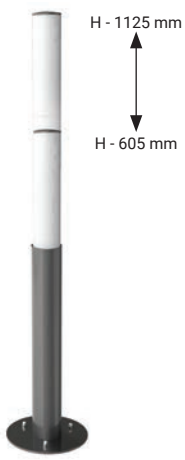
Code Ordering example: **KMD0611** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMD0611**

Mechanical Features

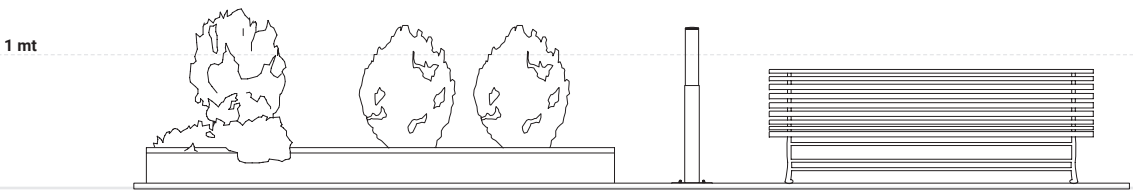
DIMENSIONAL





WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
2,5	**-20°C ~ +45°C**

Applications





GRUPPO RAINA
L'unione fa la luce.

FLOODLIGHTS



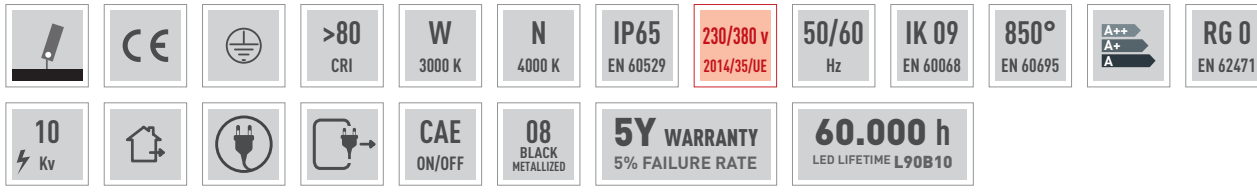




MEGALUX

MEGALUX





EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Direct light emission. LED light source. IP66 quick plug-in connector for power line included. Electronic power supply CAE in separate box.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE in cassetta separata.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Emission directe. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentación CAE en caja externa.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Emisión directa. Fuente de luz LED. Conector rápido IP66 para alimentación incluido. Boîtier externe pour alimentation électronique CAE.

DE

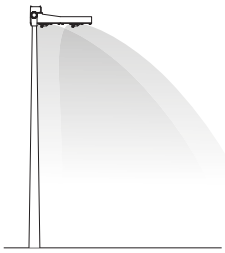
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Elektronische Stromversorgung CAE in separater Box.

RU

Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Отдельный блок питания CAE.

Beams [MEGALUX 8 - MEGALUX 12]

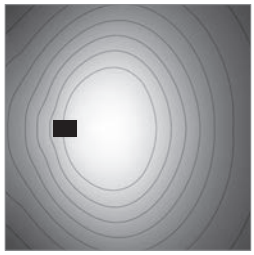
AS [OPTIC]



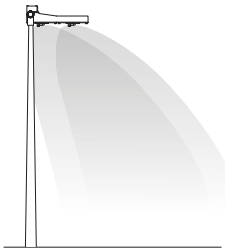
MEGALUX 8



MEGALUX 12



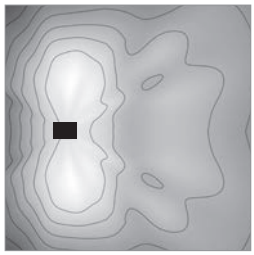
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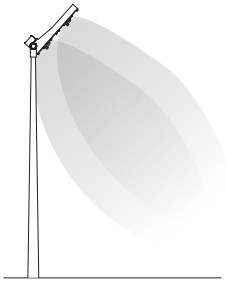
MEGALUX 8



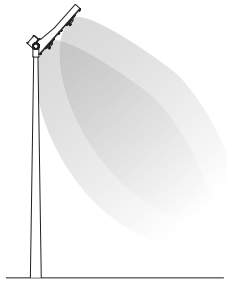
MEGALUX 12



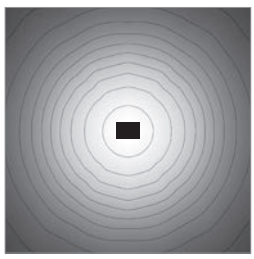
D [OPTIC]



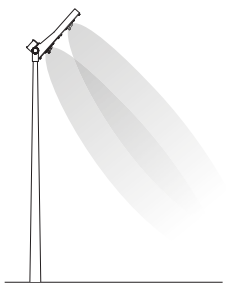
MEGALUX 8



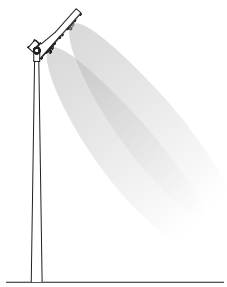
MEGALUX 12



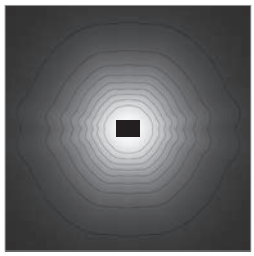
C [OPTIC]



MEGALUX 8



MEGALUX 12

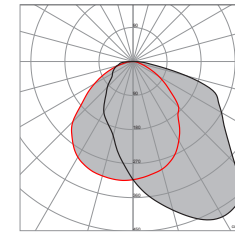


MEGALUX 8 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018ASW/N**08**	124800	93400	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



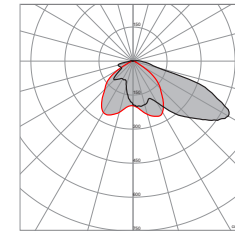
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018AS2W/N**08**	124800	94600	816	> 116	1000

W/N= **W** (3000 K) | **N** (4000 K)



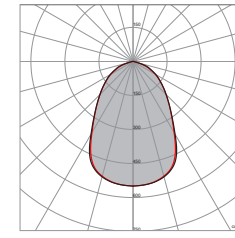
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018DW/N**08**	124800	95800	816	> 118	1000

W/N= **W** (3000 K) | **N** (4000 K)



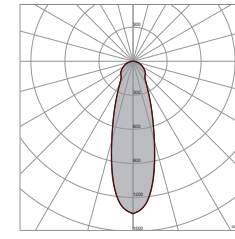
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018CW/N**08**	124800	92600	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMG88018** **AS** W/N **08**

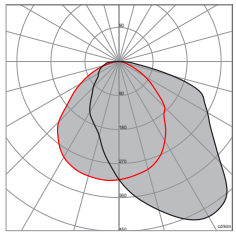
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG88018**

MEGALUX 12 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018ASW/N**08**	187200	140100	1224	> 115	2000

W/N= **W** (3000 K) | **N** (4000 K)



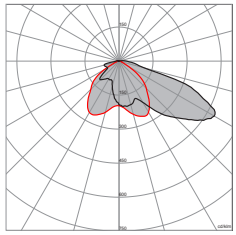
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018AS2W/N**08**	187200	141900	1224	> 116	2000

W/N= **W** (3000 K) | **N** (4000 K)



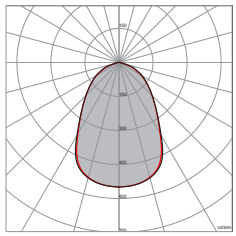
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018DW/N**08**	187200	143700	1224	> 118	2000

W/N= **W** (3000 K) | **N** (4000 K)



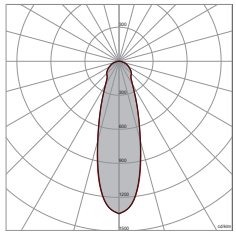
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018CW/N**08**	187200	140700	1224	> 114	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

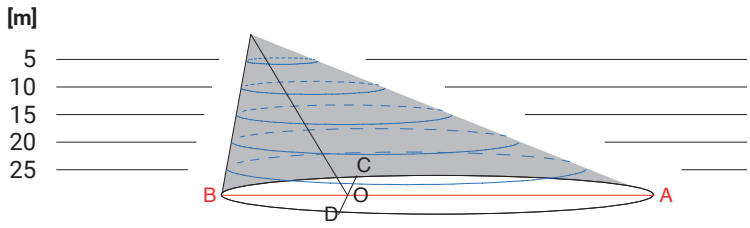
Code

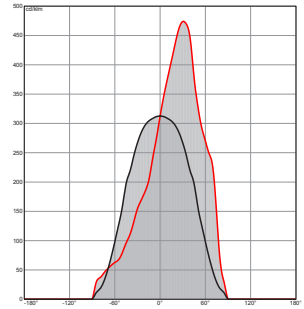
Code Ordering example: **KMG128018** **AS** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG128018**

Beams [MEGALUX 8-12]

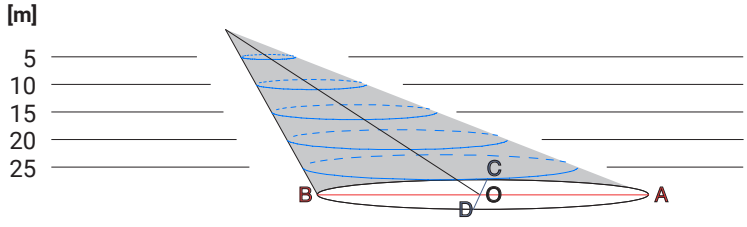
AS [OPTIC]

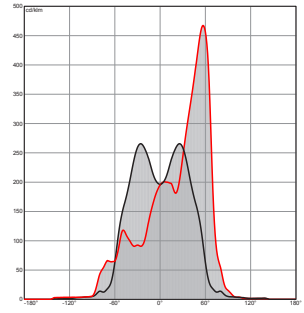




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	1370	330	2055	495
10	340	85	515	125
15	150	40	230	55
20	90	22	130	30
25	55	13	85	20

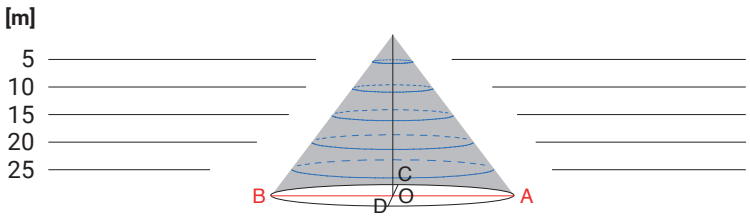
AS2 [OPTIC]

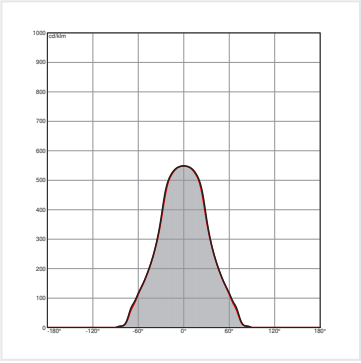




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	735	145	1100	220
10	185	40	280	55
15	85	16	125	25
20	50	10	70	15
25	30	6	45	10

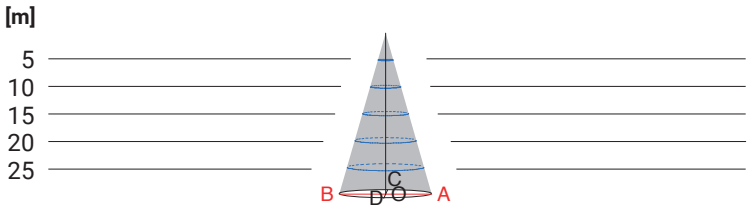
D [OPTIC]

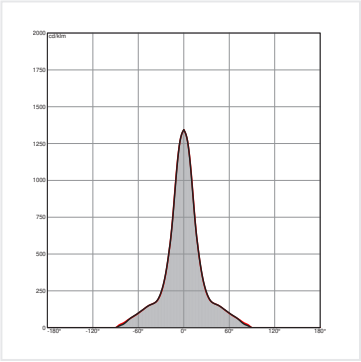




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	2105	980	3160	1470
10	530	245	790	367
15	235	110	355	170
20	135	65	200	95
25	85	40	130	60

C [OPTIC]





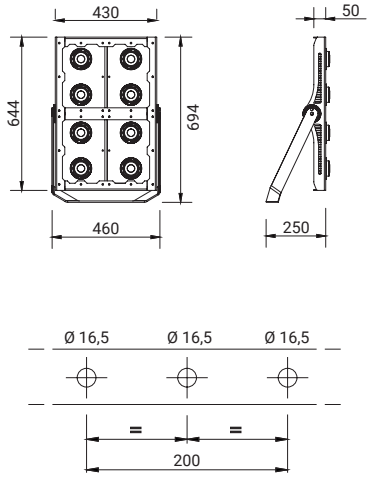
	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	4975	3105	7470	4660
10	1245	780	1870	1165
15	555	345	830	295
20	315	195	470	295
25	200	125	300	190

C

MEGALUX

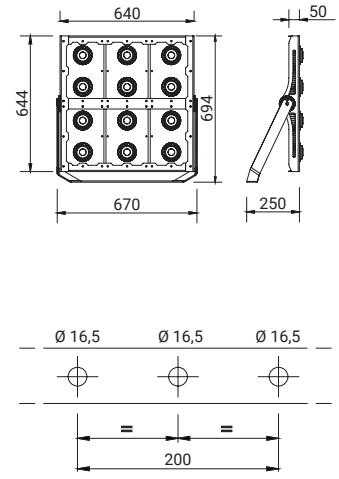
DIMENSIONAL + FIXTING

MEGALUX 8



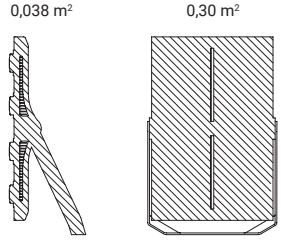
DIMENSIONAL + FIXTING

MEGALUX 12

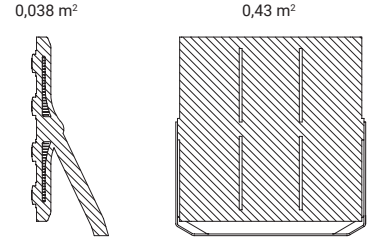


WIND RESISTANCE

MEGALUX 8



MEGALUX 12



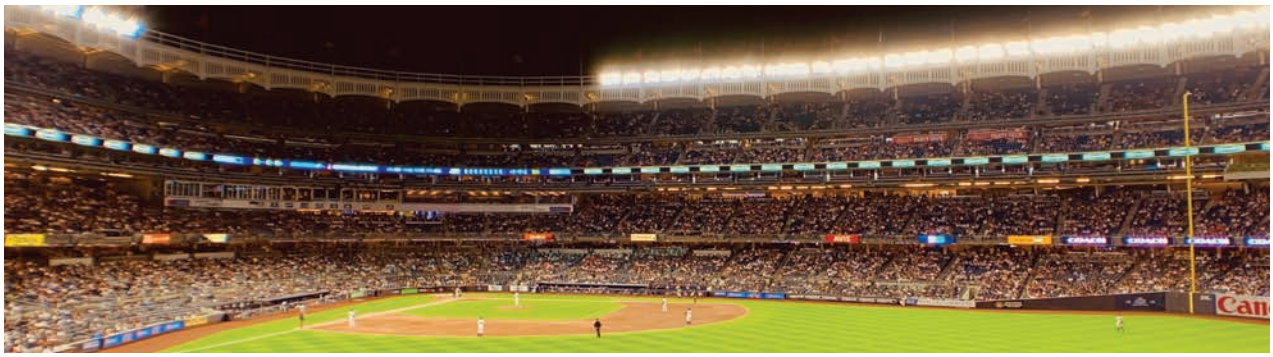
WEIGHT (Kg)

MEGALUX 8: **19,0+8,0** (driver box)
MEGALUX 12: **28,0+12,0** (driver box)

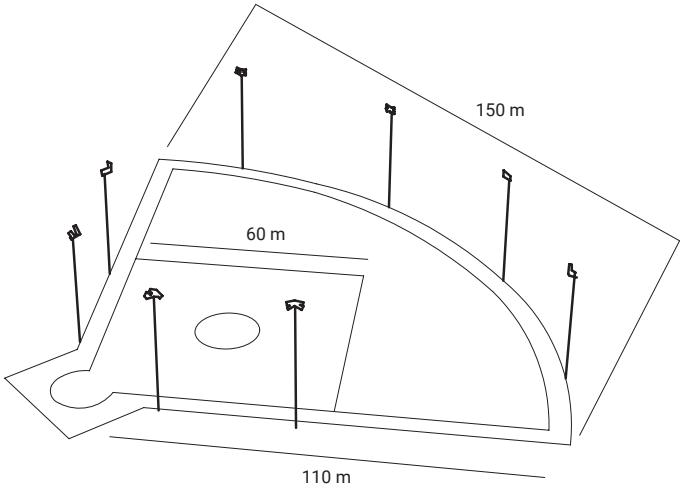
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MEGALUX 8 - 12: **-20 ~ +45°C**

Application (Baseball)



Playground Area	Poles	Lux Value Result	Light Fittings Required
110x110x150 m	8 x h= 30 m	500 Lx pitch 700 Lx Diamond	no.64 KMG12CN

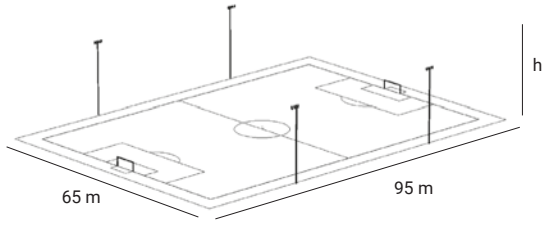


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

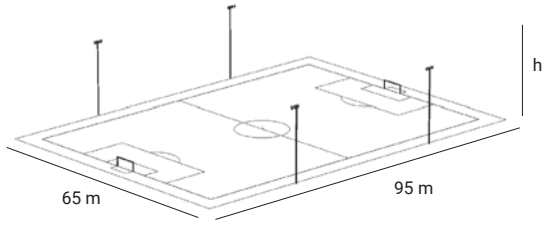
Application (Football)



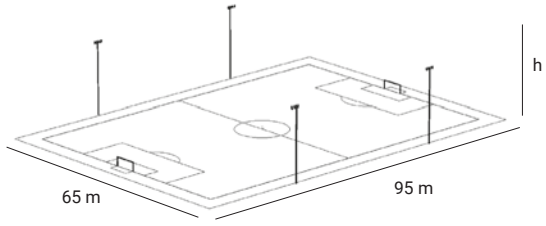
Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 25 m	200 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 20 m	100 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	8 x h= 15 m	100 Lx	n.8 KMG8CN - KMG8DN



Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx









GRUPPO RAINA
L'unione fa la luce.



WALLEY XP

WALLEY XP



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
10 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE	60.000 h LED LIFETIME L90B10				DL DALI	

On request

EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation.Emission directe. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED.Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

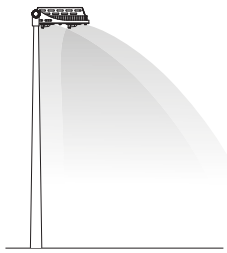
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

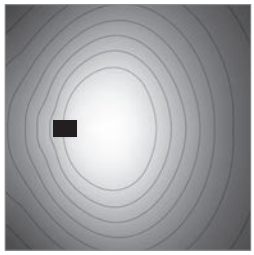
Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [WALLEY XP 1-2-4-6]

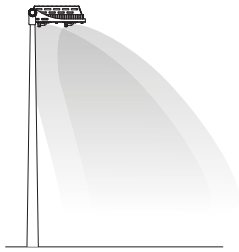
AS [OPTIC]



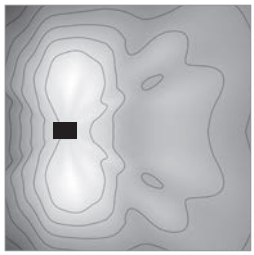
WALLEY XP



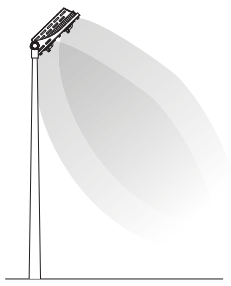
AS2 [OPTIC]



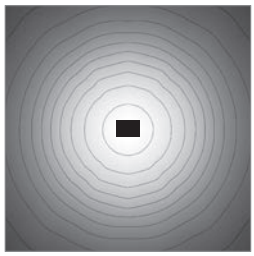
WALLEY XP



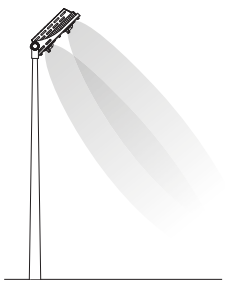
D [OPTIC]



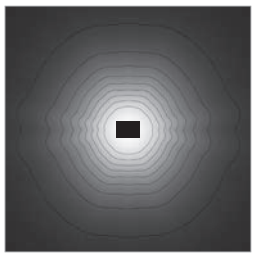
WALLEY XP



C [OPTIC]



WALLEY XP

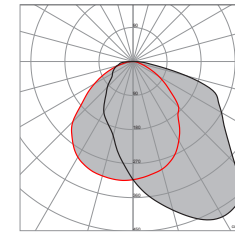


WALLEY XP 1 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016ASW/N**08**	13840	9960	95	> 104	150
KWYX18018ASW/N**08**	15450	10770	105	> 103	150

W/N= **W** (3000 K) | **N** (4000 K)



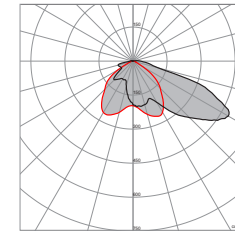
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016AS2W/N**08**	13840	9575	95	> 100	150
KWYX18018AS2W/N**08**	15450	10560	105	> 101	150

W/N= **W** (3000 K) | **N** (4000 K)



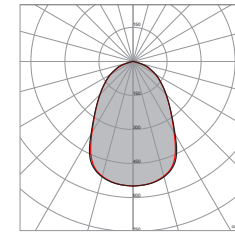
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016DW/N**08**	13840	10340	95	> 108	150
KWYX18018DW/N**08**	15450	11400	105	> 109	150

W/N= **W** (3000 K) | **N** (4000 K)



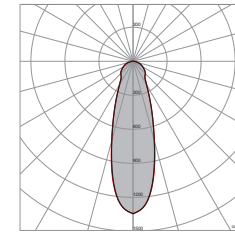
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016CW/N**08**	13840	10080	95	> 112	150
KWYX18018CW/N**08**	15450	11120	105	> 106	150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX16016** **AS** W/N **08**

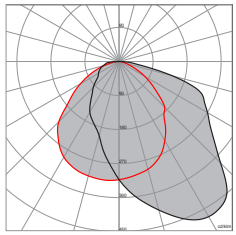
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX16016**

WALLEY XP 2 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013ASW/N**08**	15720	11310	100	> 113	250
KWYX24016ASW/N**08**	18500	13300	123	> 108	250
KWYX26013ASW/N**08**	22840	16230	147	> 110	250
KWYX26016ASW/N**08**	27680	19915	191	> 104	400
KWYX28016ASW/N**08**	28200	20425	184	> 111	400
KWYX28018ASW/N**08**	31200	22070	202	> 109	400
KWYX28021ASW/N**08**	35400	25585	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



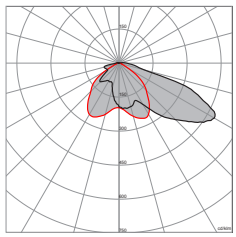
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013AS2W/N**08**	15720	10875	100	> 109	250
KWYX24016AS2W/N**08**	18500	12800	123	> 104	250
KWYX26013AS2W/N**08**	22840	15610	147	> 106	250
KWYX26016AS2W/N**08**	27680	19150	191	> 100	400
KWYX28016AS2W/N**08**	28200	19640	184	> 107	400
KWYX28018AS2W/N**08**	31200	21220	202	> 105	400
KWYX28021AS2W/N**08**	35400	24290	244	> 100	400

W/N= **W** (3000 K) | **N** (4000 K)



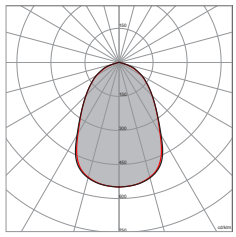
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013DW/N**08**	15720	11750	100	> 118	250
KWYX24016DW/N**08**	18500	13820	123	> 112	250
KWYX26013DW/N**08**	22840	16850	147	> 115	250
KWYX26016DW/N**08**	27680	20680	191	> 108	400
KWYX28016DW/N**08**	28200	21210	184	> 115	400
KWYX28018DW/N**08**	31200	22920	202	> 114	400
KWYX28021DW/N**08**	35400	26230	244	> 108	400

W/N= **W** (3000 K) | **N** (4000 K)



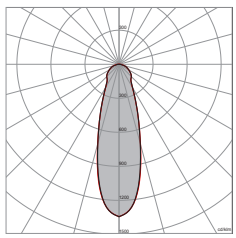
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013CW/N**08**	15720	11455	100	> 115	250
KWYX24016CW/N**08**	18500	13475	123	> 110	250
KWYX26013CW/N**08**	22840	16440	147	> 112	250
KWYX26016CW/N**08**	27680	20170	191	> 106	400
KWYX28016CW/N**08**	28200	20690	184	> 112	400
KWYX28018CW/N**08**	31200	22350	202	> 111	400
KWYX28021CW/N**08**	35400	25550	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX24013** **AS** W/N **08**

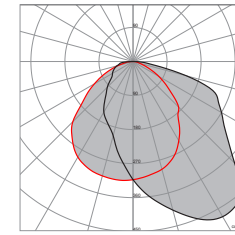
- **08** — Product colour: **08** Black Metalizzed
- W/N — Colour Temperature: **W** 3000 K - **N** 4000 K
- **AS** — Optic type
- **KWYX24013** — Product Code: **KWYX24013**

WALLEY XP 4 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013ASW/N**08**	31440	22620	200	> 113	400
KWYX44016ASW/N**08**	37000	26600	246	> 108	400
KWYX46013ASW/N**08**	45680	32460	294	> 110	600
KWYX46016ASW/N**08**	55360	39830	382	> 104	600
KWYX48016ASW/N**08**	56400	40850	368	> 111	600
KWYX48018ASW/N**08**	62400	44140	404	> 109	600
KWYX48021ASW/N**08**	70800	51170	488	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



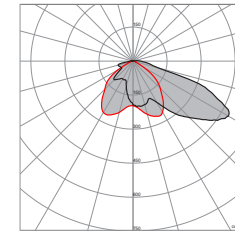
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013AS2W/N**08**	31440	21750	200	> 109	400
KWYX44016AS2W/N**08**	37000	25600	246	> 104	400
KWYX46013AS2W/N**08**	45680	31220	294	> 106	600
KWYX46016AS2W/N**08**	55360	38300	382	> 100	600
KWYX48016AS2W/N**08**	56400	39280	368	> 107	600
KWYX48018AS2W/N**08**	62400	42440	404	> 105	600
KWYX48021AS2W/N**08**	70800	48580	488	> 100	1000

W/N= **W** (3000 K) | **N** (4000 K)



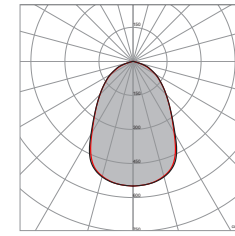
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013DW/N**08**	31440	23500	200	> 118	400
KWYX44016DW/N**08**	37000	27640	246	> 11	400
KWYX46013DW/N**08**	45680	33700	294	> 113	600
KWYX46016DW/N**08**	55360	41360	382	> 108	600
KWYX48016DW/N**08**	56400	42420	368	> 115	600
KWYX48018DW/N**08**	62400	45840	404	> 114	600
KWYX48021DW/N**08**	70800	52460	488	> 108	1000

W/N= **W** (3000 K) | **N** (4000 K)



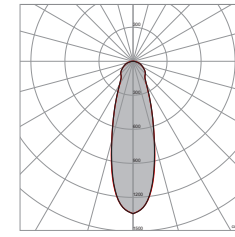
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013CW/N**08**	31440	22910	200	> 114,6	400
KWYX44016CW/N**08**	37000	26950	246	> 109,6	400
KWYX46013CW/N**08**	45680	32880	294	> 111,8	600
KWYX46016CW/N**08**	55360	40340	382	> 105,6	600
KWYX48016CW/N**08**	56400	41380	368	> 112,4	600
KWYX48018CW/N**08**	62400	44700	404	> 110,6	600
KWYX48021CW/N**08**	70800	51100	488	> 104,7	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX44013** **AS** W/N **08**

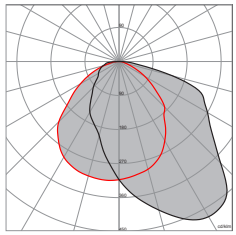
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX44013**

WALLEY XP 6 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013ASW/N**08**	47160	33930	300	> 113	600
KWYX64016ASW/N**08**	55500	39900	369	> 108	600
KWYX66013ASW/N**08**	68520	48690	441	> 110	1000
KWYX66016ASW/N**08**	83040	59745	573	> 104	1000
KWYX68016ASW/N**08**	84600	61275	552	> 111	1000
KWYX68018ASW/N**08**	93600	66210	606	> 109	1000
KWYX68021ASW/N**08**	106200	76755	732	> 105	1500

W/N= **W** (3000 K) | **N** (4000 K)



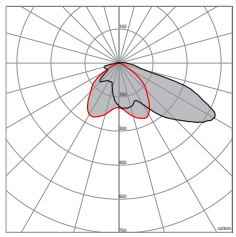
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013AS2W/N**08**	47160	43500	300	> 145	600
KWYX64016AS2W/N**08**	55500	51200	369	> 139	600
KWYX66013AS2W/N**08**	68520	62440	441	> 142	1000
KWYX66016AS2W/N**08**	83040	76600	573	> 133	1000
KWYX68016AS2W/N**08**	84600	78560	552	> 142	1000
KWYX68018AS2W/N**08**	93600	84880	606	> 140	1000
KWYX68021AS2W/N**08**	106200	97160	732	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



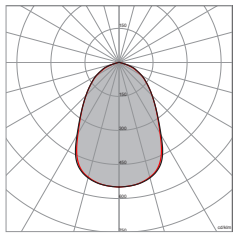
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013DW/N**08**	47160	35250	300	> 118	600
KWYX64016DW/N**08**	55500	41460	369	> 112	600
KWYX66013DW/N**08**	68520	50550	441	> 115	1000
KWYX66016DW/N**08**	83040	62040	573	> 108	1000
KWYX68016DW/N**08**	84600	63630	552	> 115	1000
KWYX68018DW/N**08**	93600	68760	606	> 114	1000
KWYX68021DW/N**08**	106200	78690	732	> 108	1500

W/N= **W** (3000 K) | **N** (4000 K)



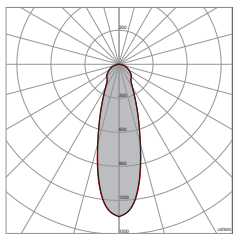
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013CW/N**08**	47160	34365	300	> 114,6	600
KWYX64016CW/N**08**	55500	40425	369	> 109,6	600
KWYX66013CW/N**08**	68520	49320	441	> 111,8	1000
KWYX66016CW/N**08**	83040	60510	573	> 105,6	1000
KWYX68016CW/N**08**	84600	62070	552	> 112,4	1000
KWYX68018CW/N**08**	93600	67050	606	> 110,6	1000
KWYX68021CW/N**08**	106200	76650	732	> 104,7	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

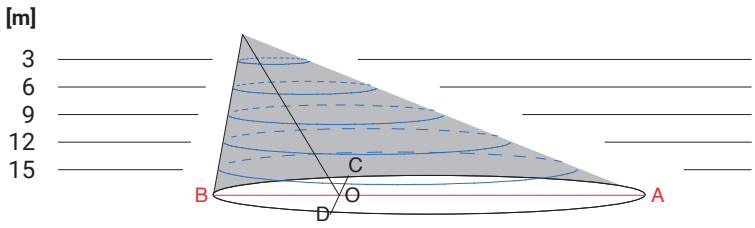
Code

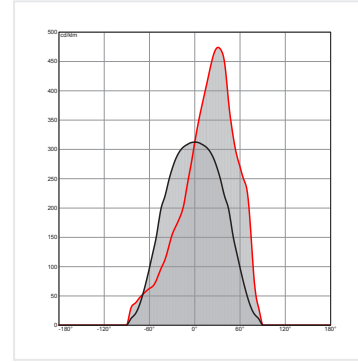
Code Ordering example: **KWYX64013** **AS** W/N **08**

- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **AS**: Optic type
- **KWYX64013**: Product Code: **KWYX64013**

C

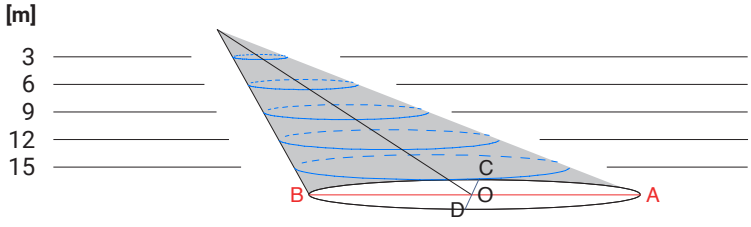
AS [OPTIC]

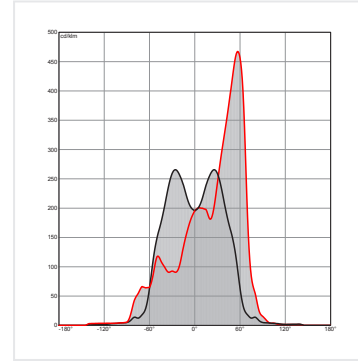




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	425	105	440	105
6	105	26	110	26
9	27	6	50	12
12	-	-	30	7
15	-	-	-	-

AS2 [OPTIC]

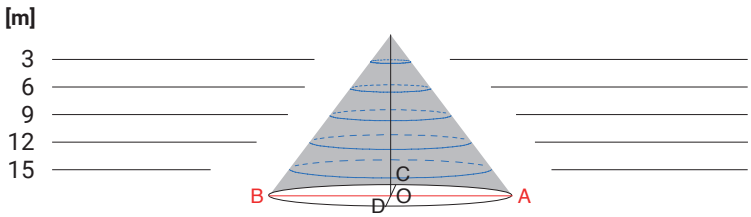


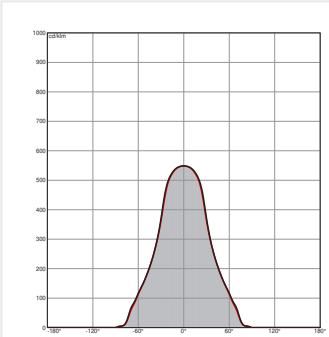


	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	220	60	230	65
6	55	15	60	20
9	25	8	30	8
12	-	-	15	5
15	-	-	-	-

Beams [WALLEY XP 1]

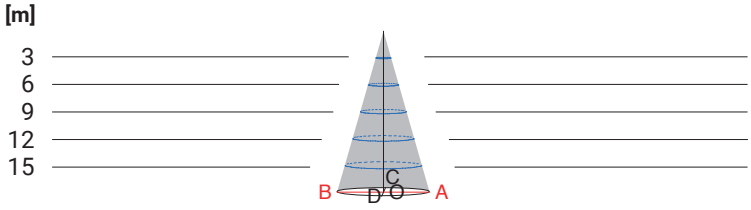
D [OPTIC]

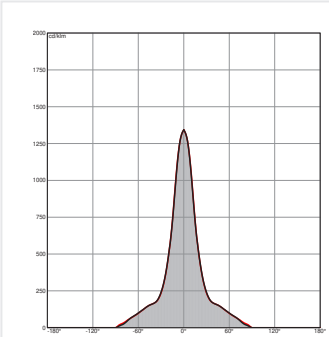




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	660	310	700	325
6	165	80	175	85
9	75	35	80	40
12	43	18	45	20
15	30	12	32	13

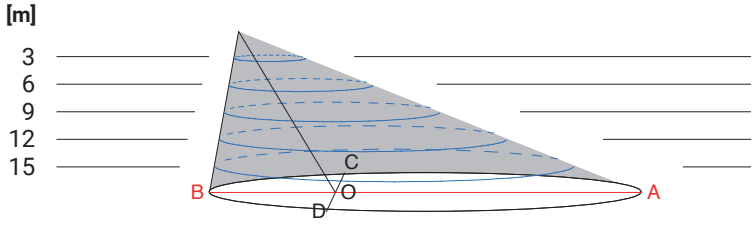
C [OPTIC]

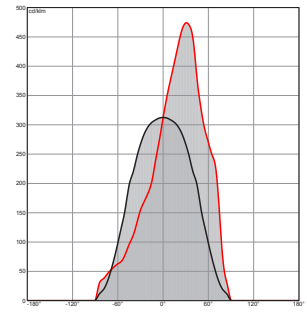




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	2200	1170	2315	1225
6	550	290	580	310
9	250	130	260	140
12	140	76	150	80
15	90	47	95	50

AS [OPTIC]

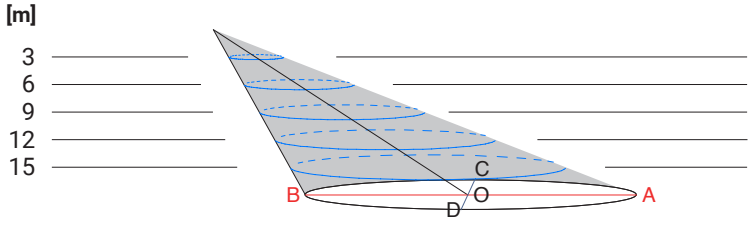


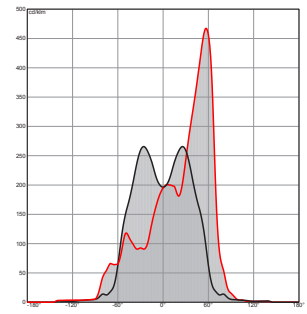


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	460	110	545	135	660	160	810	195
6	115	30	135	35	165	40	205	50
9	50	12	60	15	73	18	90	20
12	30	7	35	8	41	10	51	12
15	18	4	22	5	26	6	32	8

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	835	200	900	220	1050	250
6	210	50	225	55	260	63
9	95	22	100	25	115	30
12	55	13	56	14	65	16
15	33	8	36	9	42	10

AS2 [OPTIC]

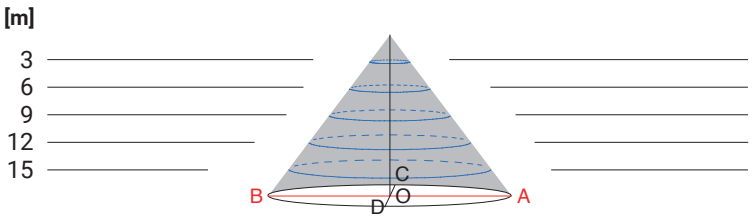


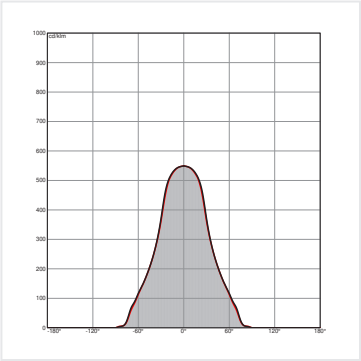


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	240	65	280	75	340	92	420	115
6	60	16	70	20	85	23	105	28
9	26	7	30	8	38	10	45	12
12	15	4	17	5	21	6	26	7
15	-	-	-	-	14	4	17	5

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	430	120	460	125	530	145
6	107	30	115	31	135	36
9	50	13	51	14	60	16
12	27	7	29	8	35	9
15	16	5	18	5	21	6

D [OPTIC]

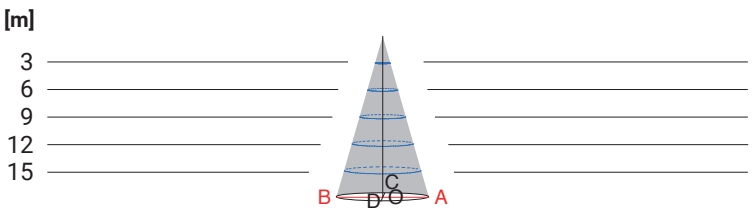


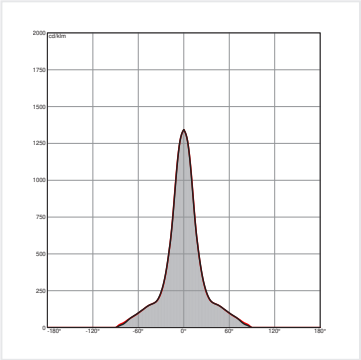


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	720	335	845	400	1030	480	1265	590
6	180	85	215	100	260	120	315	148
9	80	37	95	45	115	55	140	65
12	45	21	55	25	65	30	79	37
15	30	13	35	16	41	20	50	24

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1295	605	1400	650	1600	745
6	325	151	350	165	400	185
9	145	67	155	72	180	85
12	81	38	87	41	100	50
15	52	25	56	26	65	30

C [OPTIC]

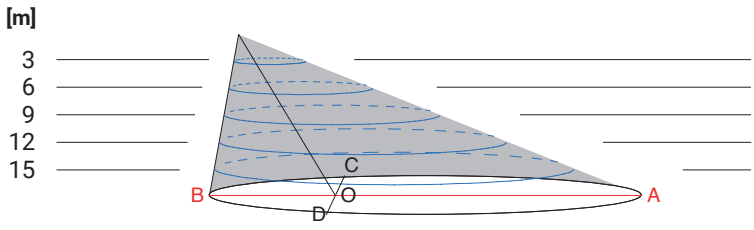


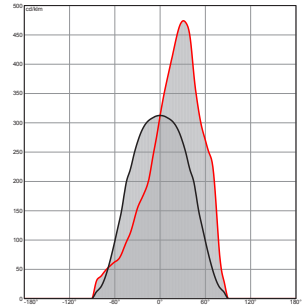


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1710	1070	2015	1260	2455	1535	3010	180
6	430	270	505	315	615	385	755	470
9	190	120	225	140	275	170	335	210
12	110	70	130	80	155	96	190	120
15	70	45	80	50	100	61	120	75

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3090	1930	3335	2090	3815	2385
6	775	485	835	525	955	595
9	343	215	370	230	425	265
12	195	123	210	130	240	150
15	124	77	133	83	155	95

AS [OPTIC]

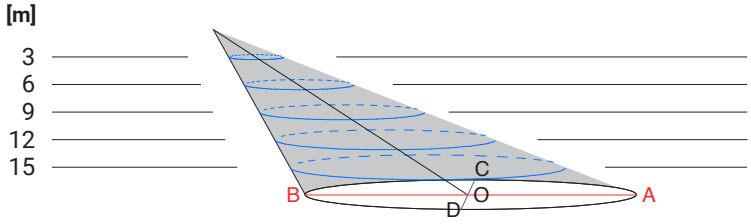


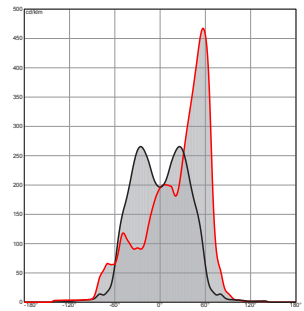


[m]	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	920	225	1085	265	1320	320	1625	395
6	230	56	275	65	330	80	405	98
9	105	25	120	30	150	35	180	43
12	58	14	70	16	85	20	100	23
15	37	9	45	10	55	15	65	16

[m]	KWYX48016		KWYX48018		KWYX48021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1665	400	1800	435	2090	500
6	415	100	450	110	525	125
9	185	45	200	50	230	60
12	105	25	115	28	130	31
15	70	18	75	19	85	20

AS2 [OPTIC]

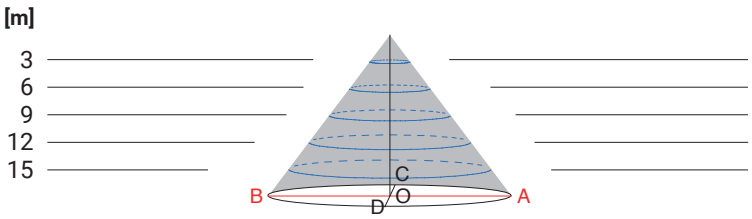


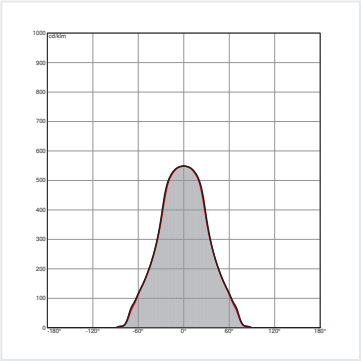


[m]	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	475	130	556	155	680	185	835	227
6	120	32	140	40	170	46	210	55
9	53	14	65	20	75	20	92	25
12	30	8	35	10	42	12	52	14
15	20	5	22	6	27	7	33	9

[m]	KWYX48016		KWYX48018		KWYX48021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	855	235	925	250	1060	290
6	215	60	230	65	270	75
9	95	26	105	30	120	35
12	53	14	60	16	70	20
15	34	9	40	10	45	11

D [OPTIC]

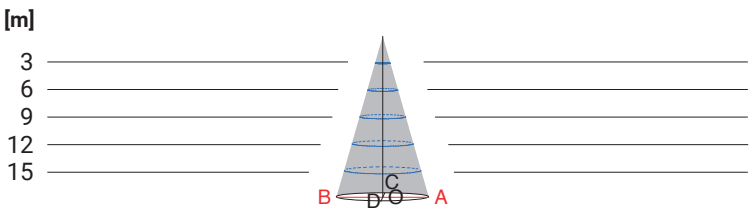


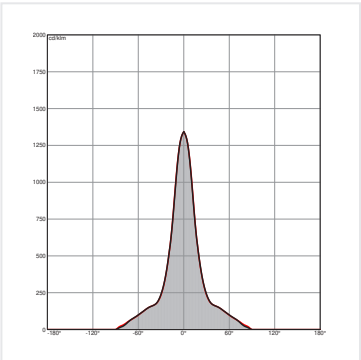


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1435	670	1690	785	2060	960	2525	1175
6	360	170	425	200	515	240	630	295
9	160	75	190	90	230	105	280	130
12	90	45	105	50	130	60	160	73
15	60	30	70	33	85	40	100	48

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	2590	1205	2800	1300	3201	1500
6	650	300	700	330	800	375
9	290	135	315	145	360	170
12	165	75	175	85	200	95
15	105	50	115	55	130	60

C [OPTIC]

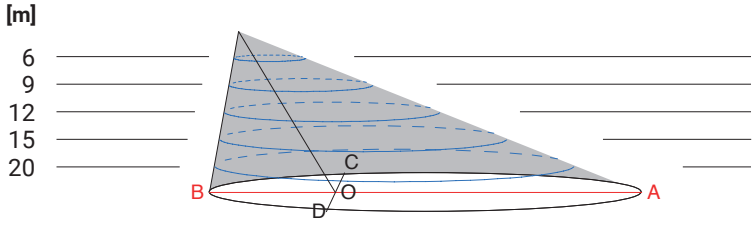


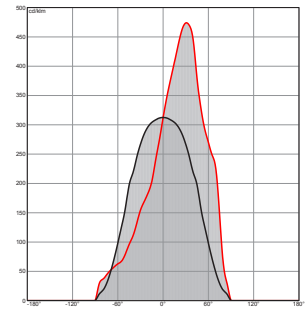


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3420	2135	4025	2515	4910	3070	6025	3760
6	855	535	1010	230	1230	770	1505	940
9	380	240	450	280	545	340	670	420
12	215	135	255	160	310	195	375	235
15	140	85	160	100	195	125	240	150

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	6180	3860	6675	4170	7630	4765
6	1550	970	1670	1050	1910	1200
9	685	430	745	465	850	530
12	390	245	420	260	480	300
15	250	155	270	170	305	190

AS [OPTIC]

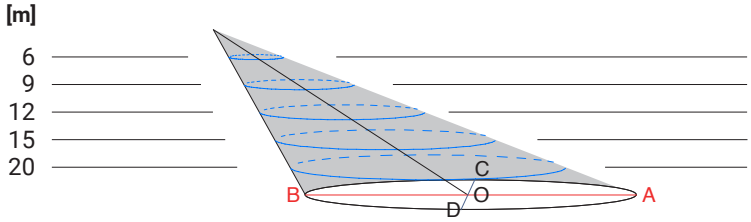


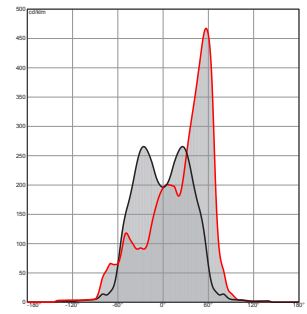


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	350	85	410	100	500	120	610	150
9	155	40	185	45	220	55	270	65
12	86	21	105	25	125	30	155	37
15	55	13	66	16	80	20	98	23
20	31	7	37	9	45	11	55	13

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	625	150	675	165	785	190
9	280	70	300	72	350	85
12	160	40	170	41	195	50
15	100	25	110	27	125	30
20	56	14	61	15	70	17

AS2 [OPTIC]

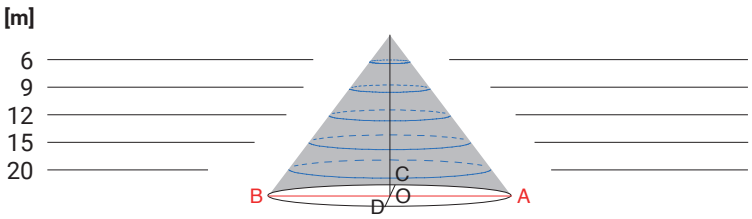


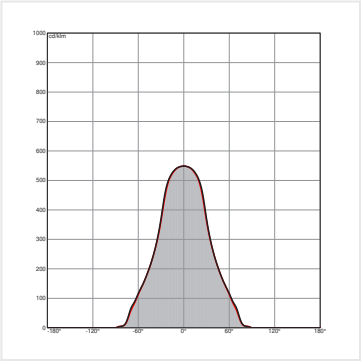


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	180	195	210	60	255	70	315	85
6	80	21	95	25	115	31	140	38
9	45	12	55	15	65	20	76	21
12	30	8	35	10	40	11	50	13
15	16	4	20	5	23	6	28	8

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	320	90	350	95	400	110
6	145	40	155	45	180	50
9	80	22	86	25	100	30
12	51	14	55	15	65	20
15	29	8	31	9	36	10

D [OPTIC]

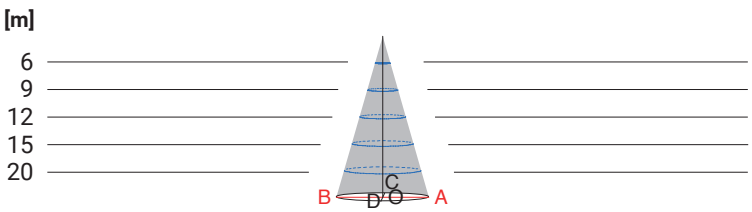


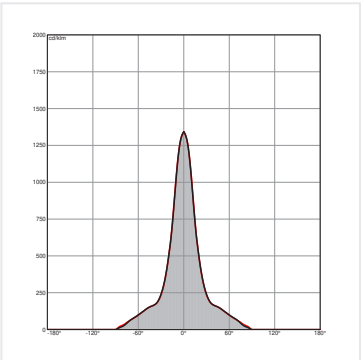


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	540	250	640	300	770	360	950	445
9	240	115	280	130	345	160	425	200
12	135	63	160	75	195	90	240	110
15	86	40	100	50	125	57	155	70
20	50	25	60	30	70	35	85	40

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	975	455	1050	490	1200	560
9	435	205	470	220	535	250
12	245	115	270	125	300	140
15	155	75	170	80	195	90
20	87	41	95	45	110	50

C [OPTIC]





	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	1285	800	1510	945	1840	1150	2260	1410
9	570	360	670	420	820	515	1005	630
12	325	200	380	235	460	290	565	355
15	205	130	240	150	295	185	365	230
20	115	75	135	85	170	105	205	128

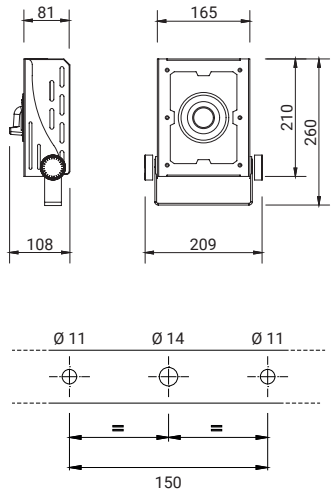
	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	2320	1450	2505	1565	2860	1790
9	1030	645	1115	695	1275	795
12	580	365	625	395	715	450
15	375	235	400	250	4660	290
20	210	130	225	145	260	165

C

WALLEY XP

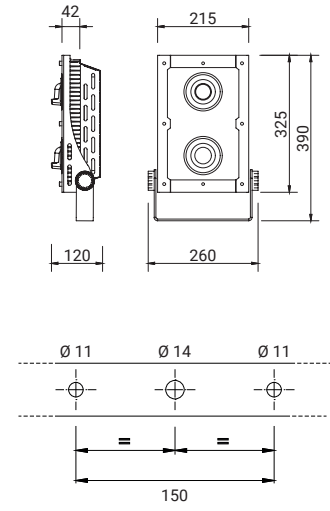
DIMENSIONAL + FIXTING

WALLEY XP 1



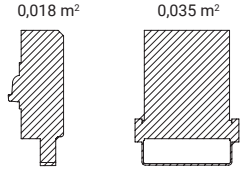
DIMENSIONAL + FIXTING

WALLEY XP 2

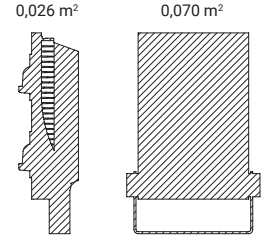


WIND RESISTANCE

WALLEY XP 1



WALLEY XP 2



WEIGHT (Kg)

WALLEY XP 1: **4,5**
WALLEY XP 2: **6,0**

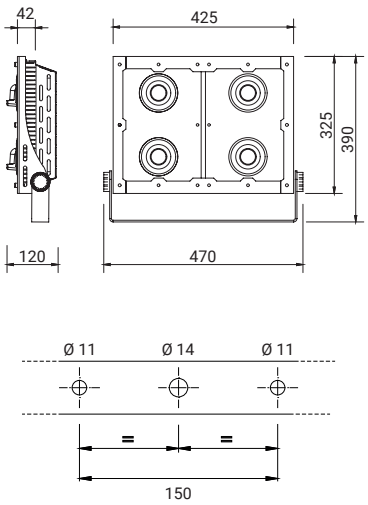
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 1 - 2: **-20 ~ +45°C**

WALLEY XP

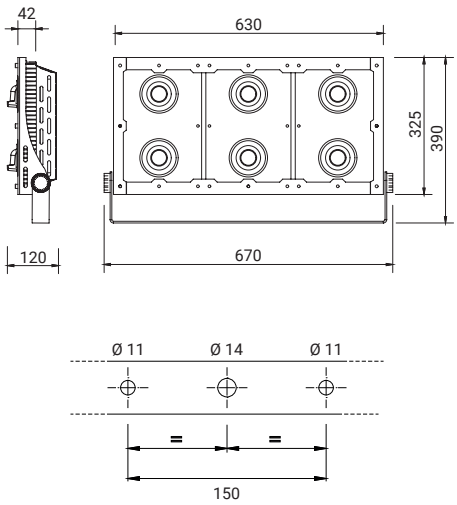
DIMENSIONAL + FIXTING

WALLEY XP 4



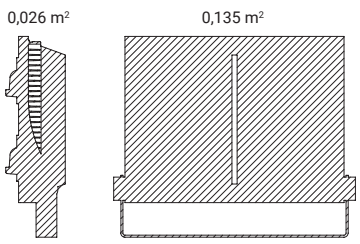
DIMENSIONAL + FIXTING

WALLEY XP 6

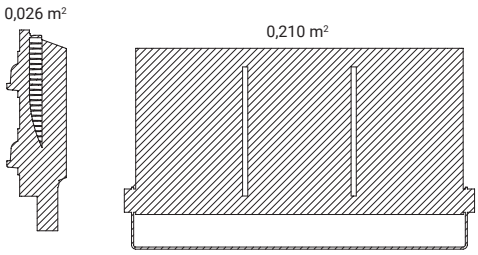


WIND RESISTANCE

WALLEY XP 4



WALLEY XP 6



WEIGHT (Kg)

WALLEY XP 4: **10,0**
WALLEY XP 6: **15,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 4 - 6: **-20 ~ +45°C**



GRUPPO RAINA
L'unione fa la luce.



MOKA

MOKA



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
6 Kv				CAE ON/OFF	46 GREY ANODIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Extruded anodized aluminum body with heat-sink function. Bent anodized aluminum frame painted with epoxy powders after phoshating. IP 65 printed silicon optical unit. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. Direct light emission. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio in alluminio pressopiegato verniciato con polveri epossidiche. Gruppo ottico in silicone stampato IP65. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Sorgente luminosa LED. Emissione diretta. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Châssis en aluminium anodisé pliée à la presse peint avec peinture epoxy poudré après phosphatation. Groupe optique en silicone imprimé IP65. Support de fixation réglable en acier pliée à la presse et peint avec peinture epoxy poudré après phosphatation avec goniomètre. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineux LED. Émission directe. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco en aluminio anodizado plegado a presión con polvo epoxi previamente fosfatado. Grupo óptico en silicona impresa IP65D. Soporte regulable en acero plegado a presión y recubierto con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED. Emisión directa. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

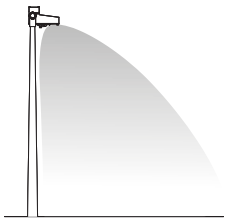
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Anodisierter, gepresster Aluminiumrahmen der nach der Phosphatierung mit Epoxidpulver lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

Анодированный экструдированный алюминиевый корпус с функцией теплоотвода. Анодированная, штампованная алюминиевая рама. Оптический блок из литого силикона со степенью защиты IP65. Регулируемый кронштейн из штампованной стали, окрашенный эпоксидными порошковыми красками после фосфатирования, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Светодиодный источник света. Прямой поток света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [MOKA - MOKA XL]

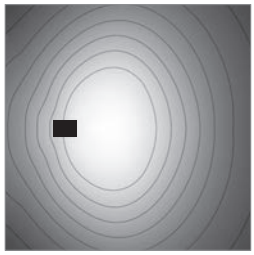
AS [OPTIC]



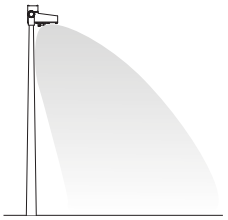
MOKA



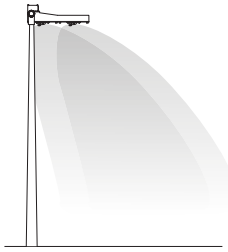
MOKA XL



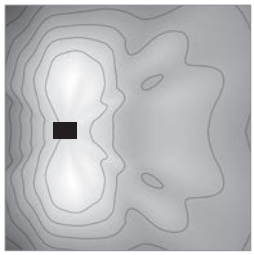
AS2 [OPTIC]



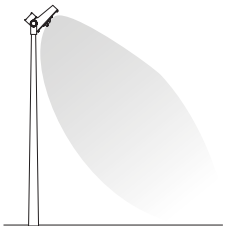
MOKA



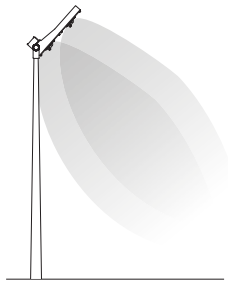
MOKA XL



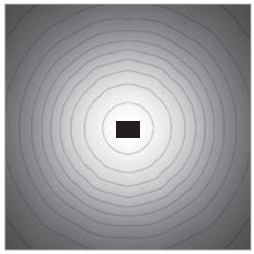
D [OPTIC]



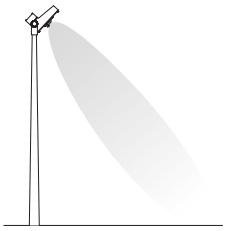
MOKA



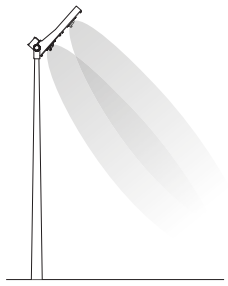
MOKA XL



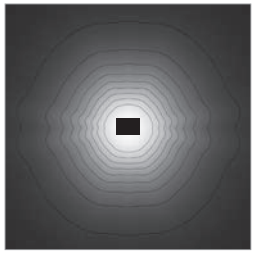
C [OPTIC]



MOKA



MOKA XL

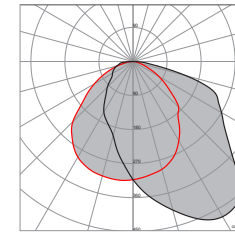


MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014ASW/N**46**	24300	17150	162	> 108	400
KMK26017ASW/N**46**	29000	20650	200	> 103	400
KMK28018ASW/N**46**	31200	23350	204	> 115	400
KMK28022ASW/N**46**	36600	26600	254	> 105	600

W/N= **W** (3000 K) | **N** (4000 K)



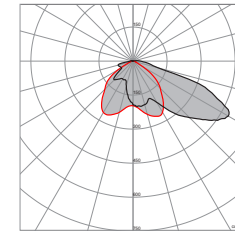
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014AS2W/N**46**	24300	18560	162	> 115	400
KMK26017AS2W/N**46**	29000	21870	200	> 109	400
KMK28018AS2W/N**46**	31200	23650	204	> 116	400
KMK28022AS2W/N**46**	36600	28200	254	> 111	600

W/N= **W** (3000 K) | **N** (4000 K)



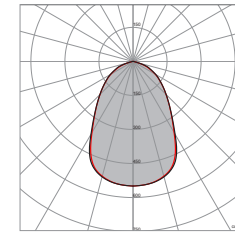
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014DW/N**46**	24300	18790	162	> 116	400
KMK26017DW/N**46**	29000	22150	200	> 111	400
KMK28018DW/N**46**	31200	23950	204	> 117	400
KMK28022DW/N**46**	36600	28540	254	> 112	600

W/N= **W** (3000 K) | **N** (4000 K)



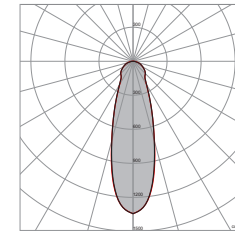
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014CW/N**46**	24300	18160	162	> 112	400
KMK26017CW/N**46**	29000	21390	200	> 107	400
KMK28018CW/N**46**	31200	23450	204	> 115	400
KMK28022CW/N**46**	36600	27580	254	> 109	600

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK26014** **AS** W/N **46**

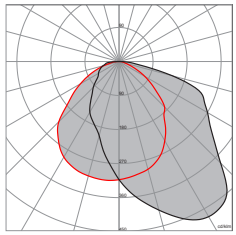
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK26014**

MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020ASW/N**46**	16250	12230	122	> 101	250
KMK18023ASW/N**46**	18890	13960	136	> 103	250

W/N= **W** (3000 K) | **N** (4000 K)



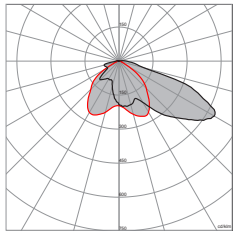
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020AS2W/N**46**	16250	12970	122	> 106	250
KMK18023AS2W/N**46**	18890	14800	136	> 109	250

W/N= **W** (3000 K) | **N** (4000 K)



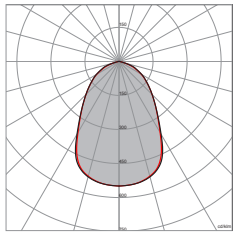
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020DW/N**46**	16250	13120	122	> 108	250
KMK18023DW/N**46**	18890	14980	136	> 110	250

W/N= **W** (3000 K) | **N** (4000 K)



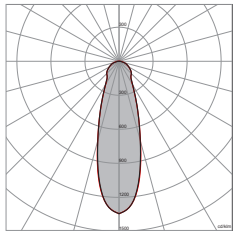
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020CW/N**46**	16250	12690	122	> 104	250
KMK18023CW/N**46**	18890	14480	136	> 106	250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK16020** **AS** W/N **46**

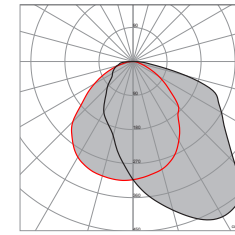
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK16020**

MOKA XL AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014ASW/N**46**	48600	35020	324	> 108	600
KMK46017ASW/N**46**	58000	41300	400	> 103	600
KMK48018ASW/N**46**	62400	46700	408	> 115	1000
KMK48022ASW/N**46**	73200	53200	508	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



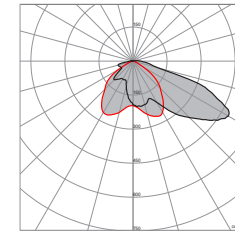
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014AS2W/N**46**	48600	37120	324	> 115	600
KMK46017AS2W/N**46**	58000	43740	400	> 109	600
KMK48018AS2W/N**46**	62400	47305	408	> 116	1000
KMK48022AS2W/N**46**	73200	56400	508	> 111	1000

W/N= **W** (3000 K) | **N** (4000 K)



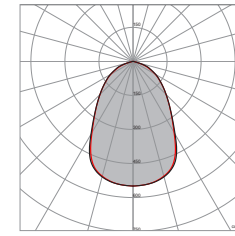
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014DW/N**46**	48600	37580	324	> 116	600
KMK46017DW/N**46**	58000	44300	400	> 111	600
KMK48018DW/N**46**	62400	47900	408	> 118	1000
KMK48022DW/N**46**	73200	57080	508	> 112	1000

W/N= **W** (3000 K) | **N** (4000 K)



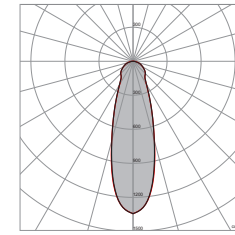
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014CW/N**46**	48600	36320	324	> 112	600
KMK46017CW/N**46**	58000	42780	400	> 107	600
KMK48018CW/N**46**	62400	46300	408	> 114	1000
KMK48022CW/N**46**	73200	55160	508	> 109	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

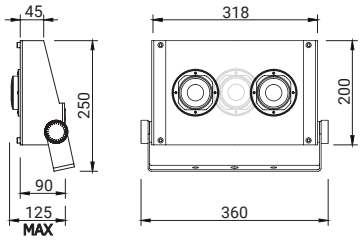
Code Ordering example: **KMK46014** **AS** W/N **46**

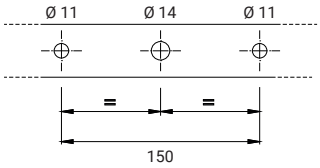
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK46014**

MOKA

DIMENSIONAL + FIXTING

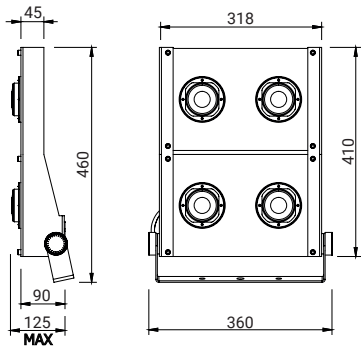
MOKA

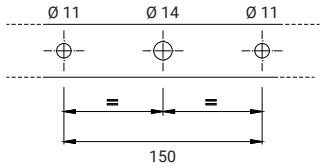




DIMENSIONAL + FIXTING

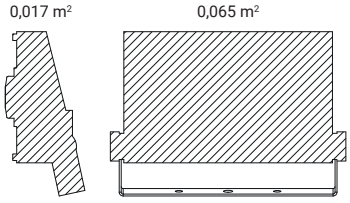
MOKA XL



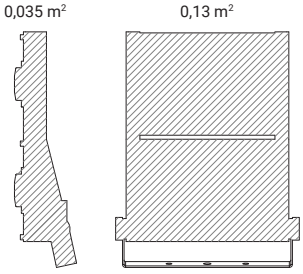


WIND RESISTANCE

MOKA



MOKA XL



WEIGHT (Kg)

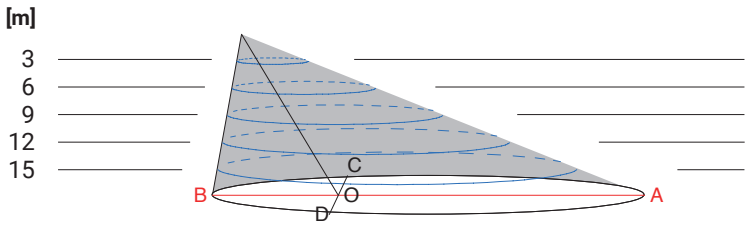
MOKA: **5,7**
MOKA XL: **9,7**

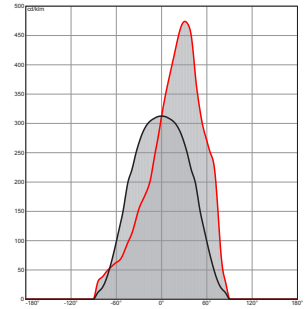
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MOKA - MOKA XL: **-20 ~ +45°C**

C

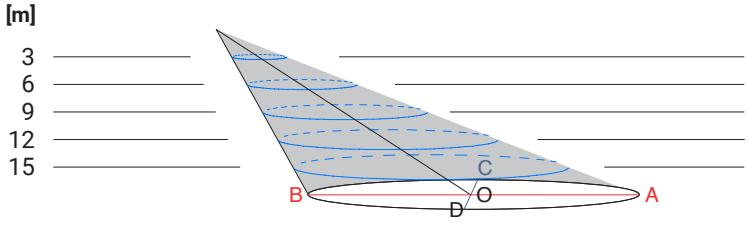
AS [OPTIC]

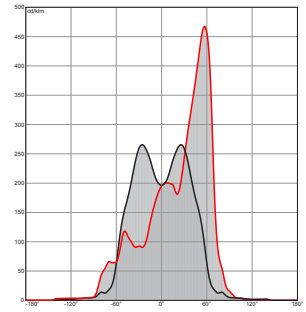




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140	570	110	500	100
6	275	55	230	45	210	40	180	35	145	30	125	25
9	121	25	100	20	95	20	80	15	65	15	55	11
12	7	15	60	11	55	10	45	10	37	7	-	-
15	45	8	40	8	35	7	30	6	-	-	-	-

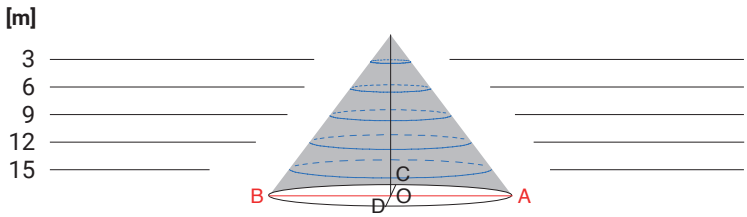
AS2 [OPTIC]

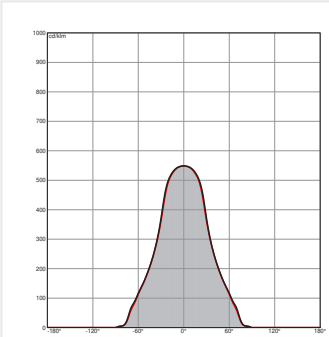




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	615	170	520	140	475	130	405	110	325	90	290	80
6	160	45	130	35	120	35	100	27	80	25	70	20
9	70	20	60	16	55	15	45	12	36	10	31	8
12	40	10	32	10	30	8	25	7	-	-	-	-
15	25	7	21	6	-	-	-	-	-	-	-	-

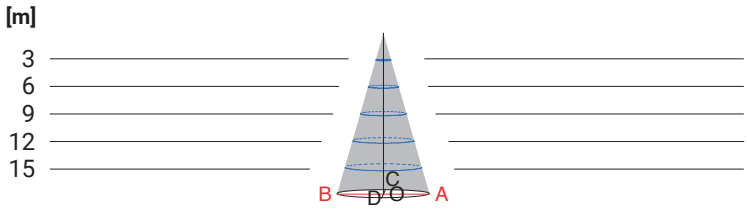
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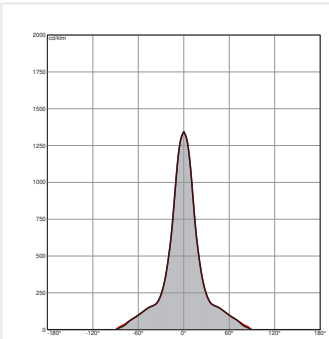




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1742	815	1420	660	1350	630	1150	535	915	430	800	375
6	435	205	355	165	340	160	290	135	230	106	200	95
9	195	90	160	75	150	70	130	60	105	50	90	40
12	110	51	90	41	85	39	75	35	60	30	50	25
15	70	32	60	26	55	25	46	21	40	20	32	15

C [OPTIC]

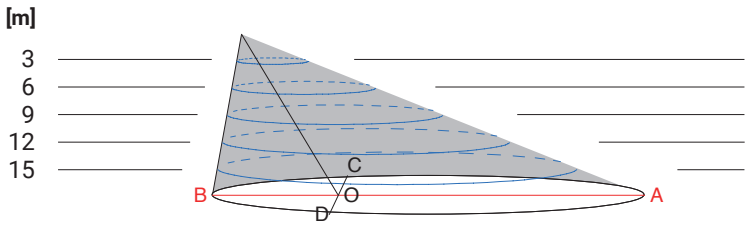


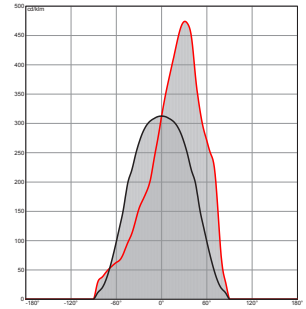


	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	4115	2570	3330	2080	3095	1995	2710	1670	2165	1350	1900	1185
6	1030	650	835	520	800	500	680	425	540	340	475	300
9	460	290	370	230	355	225	300	190	240	150	210	131
12	260	161	210	130	200	125	170	110	135	85	120	75
15	165	105	135	85	130	80	110	70	86	55	76	50

Beams [MOKA XL]

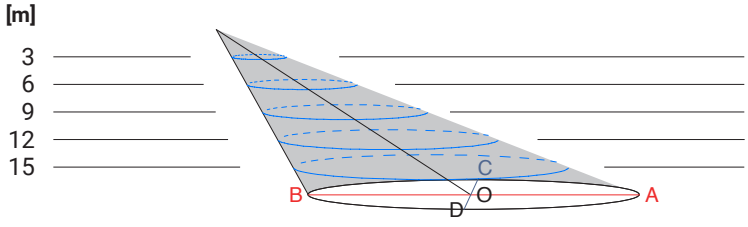
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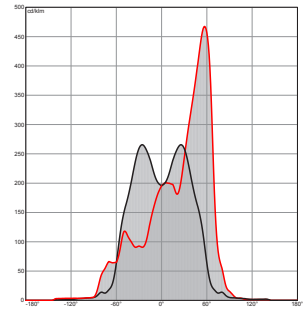




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140
6	275	55	230	45	210	40	180	35
9	121	25	100	20	95	20	80	15
12	7	15	60	11	55	10	45	10
15	45	8	40	8	35	7	30	6

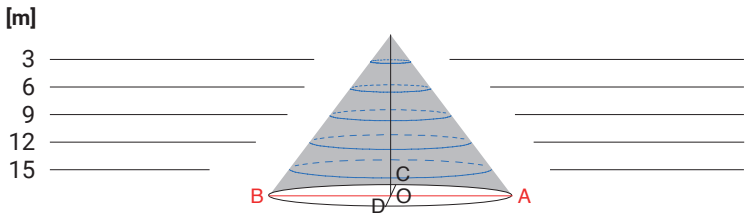
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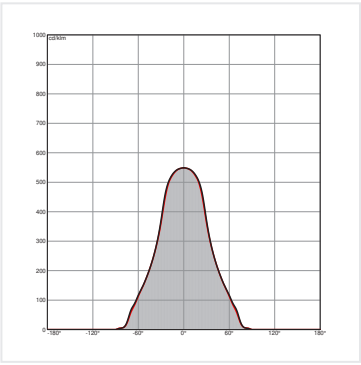




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1220	245	1025	205	945	190	800	160
6	305	60	260	51	240	47	200	40
9	140	30	115	25	105	21	90	18
12	76	15	65	13	60	12	50	10
15	50	10	41	8	38	7	32	6

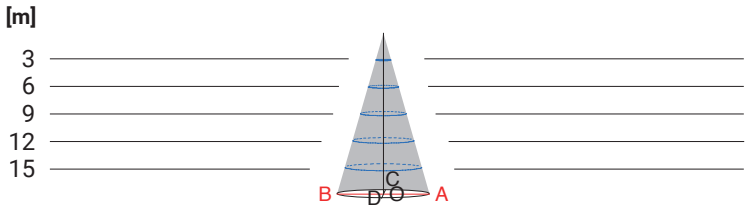
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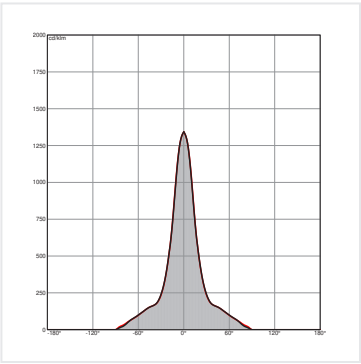




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3485	1625	2840	1320	2705	1260	2295	1070
6	870	405	710	330	675	315	575	270
9	390	180	315	150	300	140	255	120
12	220	100	180	85	170	80	145	70
15	140	65	115	55	110	50	95	45

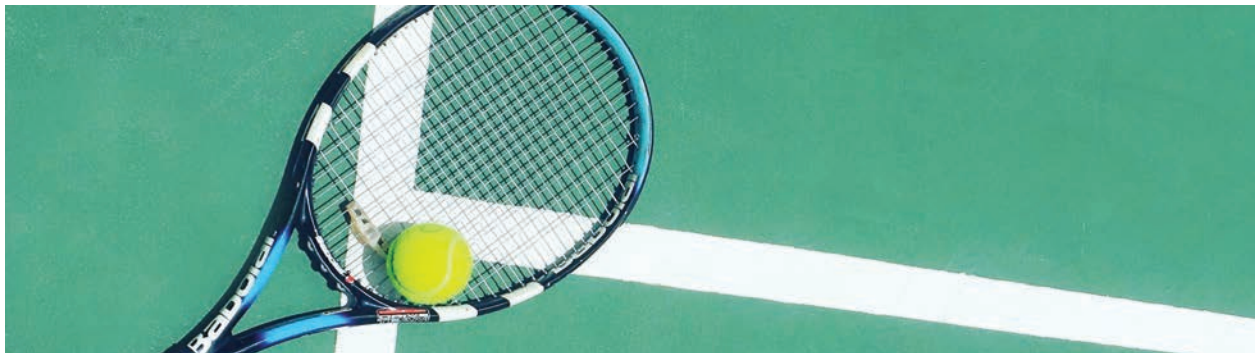
C [OPTIC]



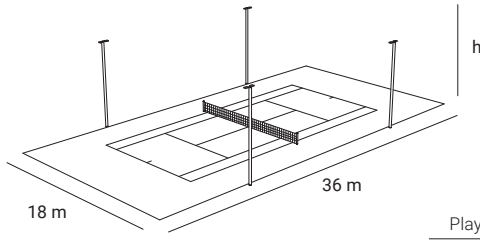


	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	8250	5150	6655	4155	6385	3990	5425	3385
6	2060	1290	1665	1040	1595	445	1355	850
9	915	570	740	465	710	445	600	375
12	515	320	420	260	400	250	340	215
15	330	205	265	165	255	160	220	135

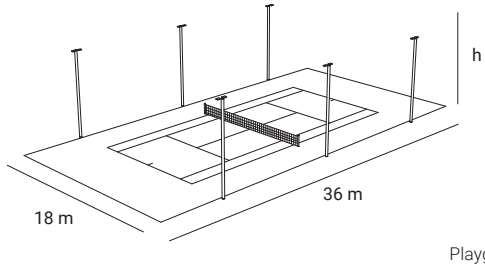
Application (Tennis Court)



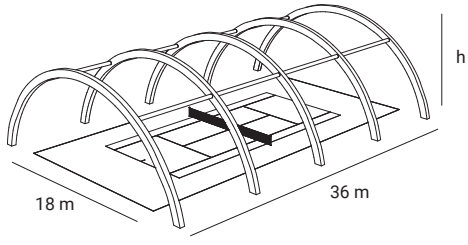
Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	4 x h= 8 m	165 Lx	no.8 KMK26014AS2N
23,8x10,8 m	4 x h= 8 m	200 Lx	no.8 KMK26017AS2N
23,8x10,8 m	4 x h= 8 m	250 Lx	no.8 KMK28022AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	6 x h= 8 m	300 Lx	n.12 KMK26017AS2N
23,8x10,8 m	6 x h= 10 m	500 Lx	n.12 KMK46017AS2N



Playground Area	Lines	Lux Value Result	Light Fittings Required
23,8x10,8 m	2x5 pezzi x h= 7,5 m	300 Lx	n.10 KMK26017AS2N

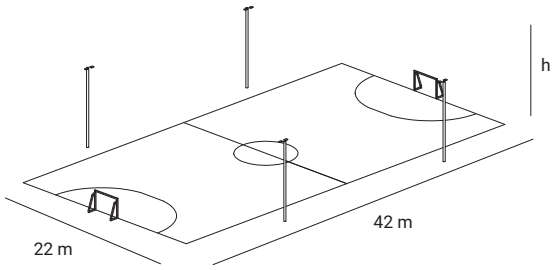


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

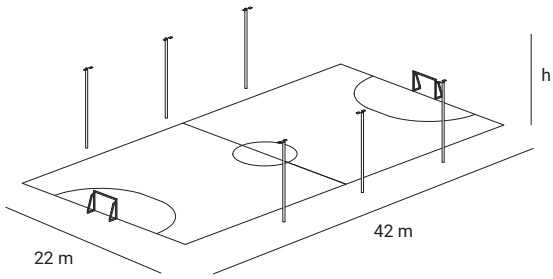
Application (Futsal)



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	4 x h= 9 m	100 Lx	n.8 KMK26017AS2N
42x22 m	4 x h= 9 m	200 Lx	n.8 KMK46017AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	6 x h= 10 m	130 Lx	n.12 KMK26017AS2N
42x22 m	6 x h= 10 m	250 Lx	n.12 KMK46017AS2N

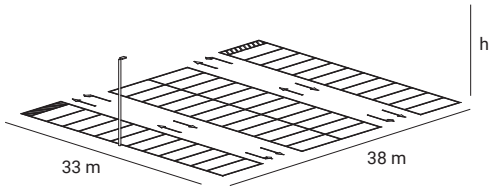


Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

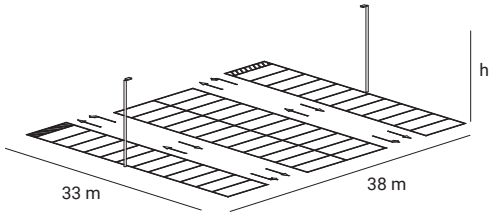
Application (Parking)



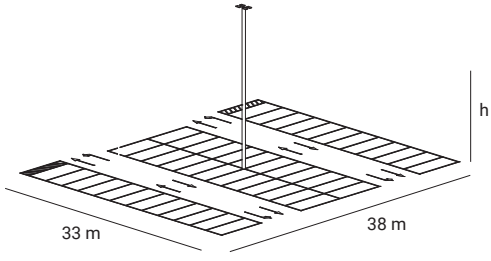
Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 8 m	5 Lx	n.1 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	2 x h= 8 m	10 Lx	n.2 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 15 m	20 Lx	n.4 KMK26014AS2N



Norm	Activity	Light Fittings Required
UNI EN12464	Light Traffic	5 Lx
UNI EN12464	Medium Traffic	10 Lx
UNI EN12464	Heavy Traffic	20 Lx











GRUPPO RAINA
L'unione fa la luce.

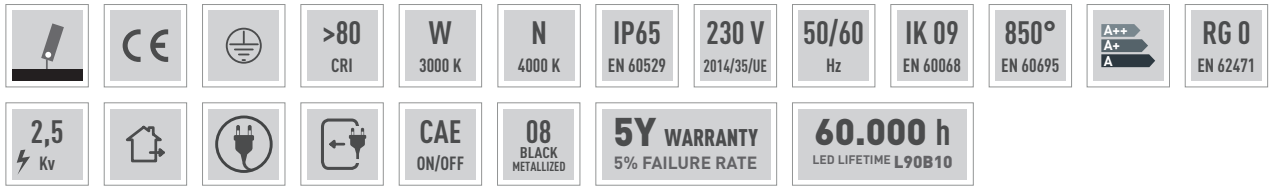


GURU AS-R

GURU AS-R







EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer.Complete with outgoing cable L= 600 mm. LED light source Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Fornito completo di cavo uscente l=600 mm. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Fourni de câble sortant L=600 mm.Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Se suministra completo con cable saliente L=600 mm. Fuente de luz LED. Emisión directa.

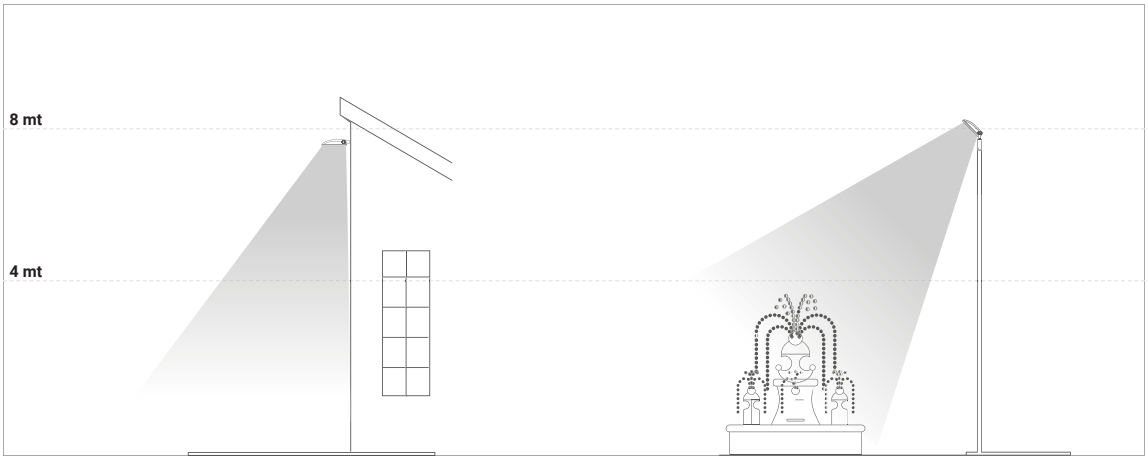
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Komplett mit abgehendem Kabel L = 600 mm. LED-Lichtquelle. Direkte Lichtemission.

RU

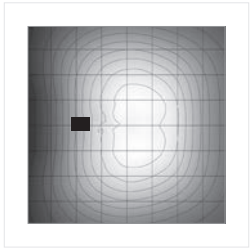
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром.В комплекте с исходящим кабелем L = 600 мм
Светодиодный источник света. Прямой поток света.

GURU

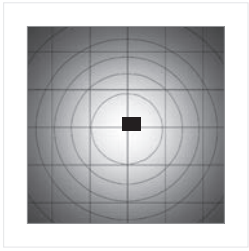


GURU [AS]

GURU [R]



GURU AS



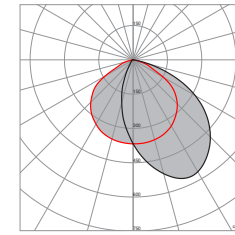
GURU R

GURU AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005ASW/N**08**	3190	2165	18	> 121	HG80
KGU14007ASW/N**08**	4400	2980	26	> 114	HG80
KGU14008ASW/N**08**	4980	3490	31	> 112	SAP70
KGU14010ASW/N**08**	6110	4330	40	> 108	HG125
KGU14014ASW/N**08**	8250	5595	54	> 104	SAP100
KGU18016ASW/N**08**	13800	9365	90	> 105	HG400
KGU24010ASW/N**08**	11450	8885	81	> 110	JM250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

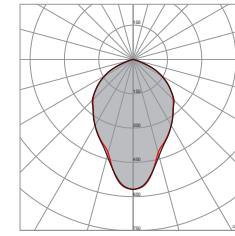
C

GURU R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005RW/N**08**	3190	2515	18	> 139	HG80
KGU14007RW/N**08**	4400	3460	26	> 133	HG80
KGU14008RW/N**08**	4980	4010	31	> 129	SAP70
KGU14010RW/N**08**	6110	5020	40	> 125	HG125
KGU14014RW/N**08**	8250	6520	54	> 120	SAP100
KGU18016RW/N**08**	13800	10860	91	> 120	HG400

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

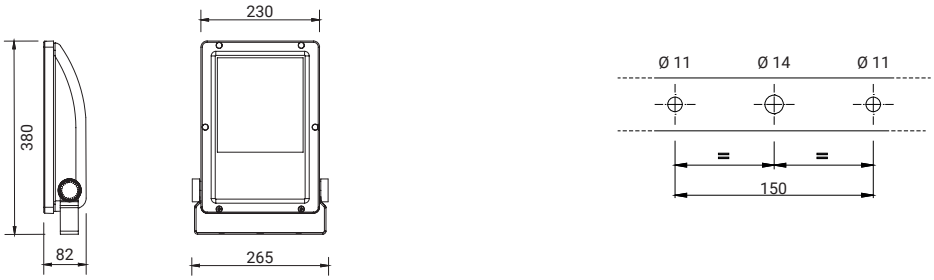
Code

Code Ordering example: **KGU14005** **AS** W/N **08**

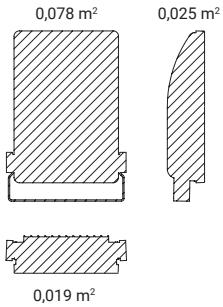
- **08** — Product colour: **08** Black Metalizzed
- W/N — Colour Temperature: **W** 3000 K - **N** 4000 K
- **AS** — Optic type
- **KGU14005** — Product Code: **KGU14005**

GURU AS-R

DIMENSIONAL + FIXTING

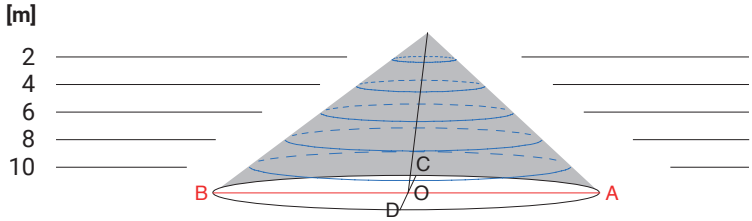


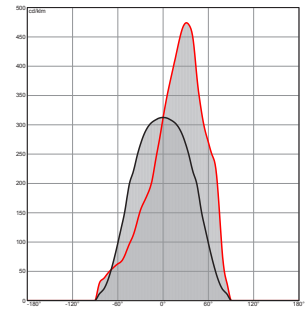
WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**

AS [OPTIC]

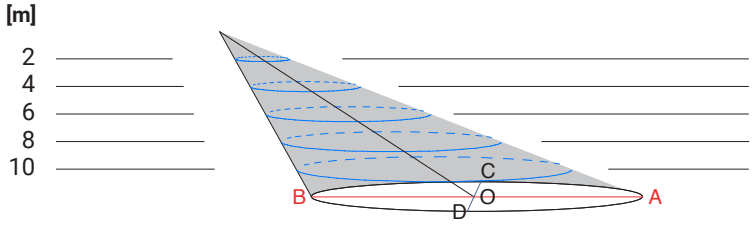


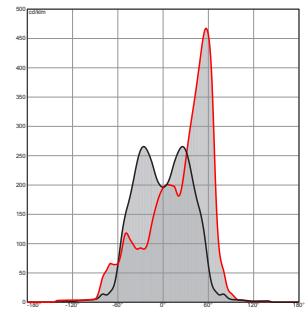


	KGU14005AS		KGU14007AS		KGU14008AS		KGU14010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	230	30	320	40	375	45	460	55
4	60	8	80	10	95	12	115	15
6	26	3	35	4	40	5	50	6
8	-	-	-	-	-	-	30	3
10	-	-	-	-	-	-	-	-

	KGU14014AS		KGU24010AS		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	600	75	950	115	1000	125
4	150	20	240	30	250	30
6	70	10	105	13	110	15
8	40	5	60	7	65	8
10	25	3	38	4	40	5

R [OPTIC]





	KGU14005R		KGU14007R		KGU14008R		KGU14010R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	360	140	495	195	570	225	715	280
4	90	35	125	50	145	60	180	70
6	40	16	55	22	65	25	80	31
8	22	9	31	12	40	14	45	18
10	14	6	20	8	25	10	30	11

	KGU14014R		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
2	930	365	1550	610
4	235	90	390	155
6	105	40	175	70
8	60	25	100	40
10	40	15	65	25



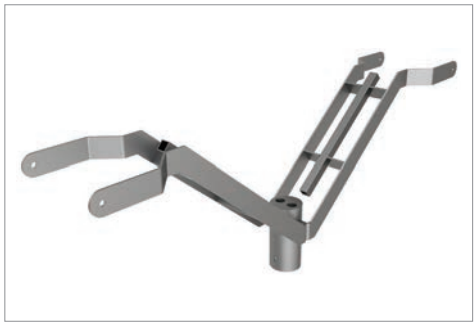
KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)


COLOMBO
GRUPPO RAINA

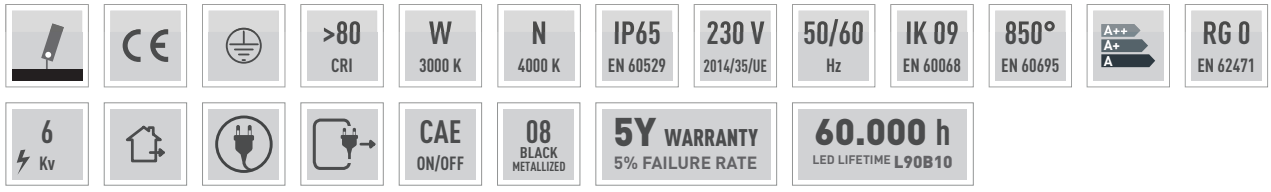


GURU PRO AS-R

GURU PRO AS - R







EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Fuente de luz LED.
Emisión directa.

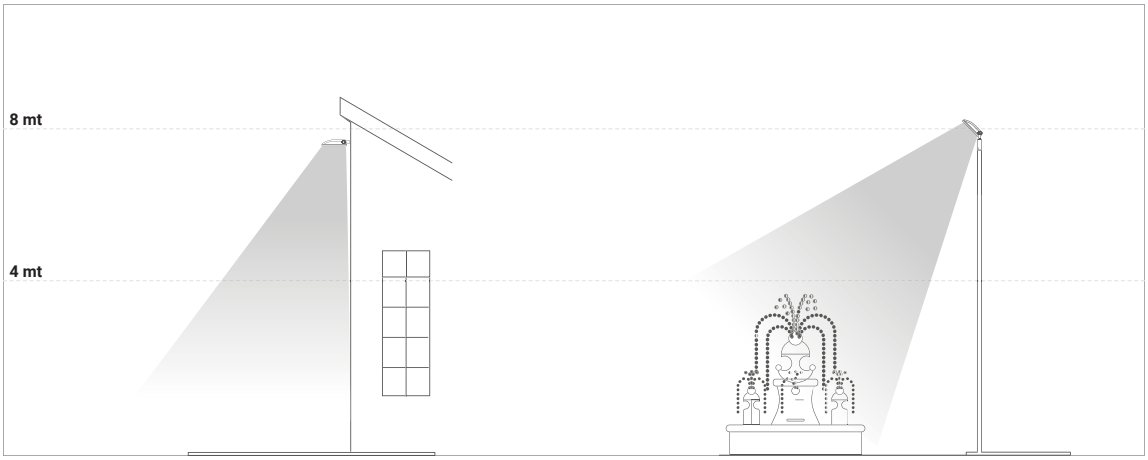
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt. LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Светодиодный источник света. Прямой поток света.

GURU PRO

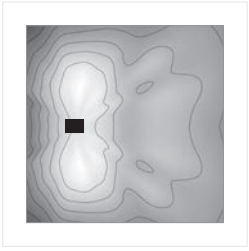


GURU PRO [AS]

GURU PRO [R]



GURU PRO AS



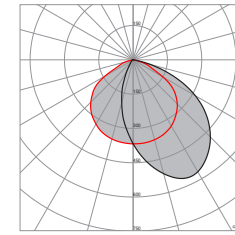
GURU PRO R

GURU PRO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016ASW/N**08**	13500	9155	95	> 97	SAP150
KGP16018ASW/N**08**	14900	10100	107	> 95	JM250
KGP18022ASW/N**08**	18300	12410	132	> 94	HG400
KGP18027ASW/N**08**	21730	14730	160	> 92	HG400
KGP24010ASW/N**08**	12780	8870	80	> 110	SAP150
KGP24014ASW/N**08**	16495	11185	90	> 108	JM250
KGP26008ASW/N**08**	14550	9870	90	> 109	JM250
KGP26010ASW/N**08**	18660	12650	120	> 105	HG400
KGP26014ASW/N**08**	24080	16990	165	> 102	SAP250
KGP28017ASW/N**08**	29160	19775	198	> 100	JM400

W/N= **W** (3000 K) | **N** (4000 K)



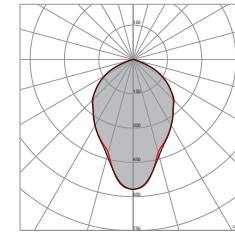
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU PRO R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016RW/N**08**	13500	10620	95	> 112	JM250
KGP16018RW/N**08**	14900	11720	107	> 110	HG400
KGP18022RW/N**08**	18300	14395	132	> 109	HG400
KGP18027RW/N**08**	21730	17090	160	> 107	SAP250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

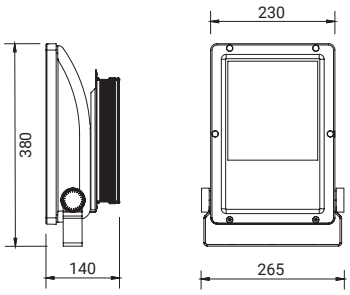
Code

Code Ordering example: **KGP16016** **AS** W/N **08**

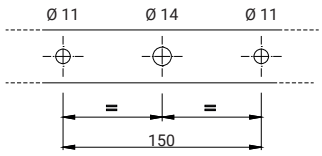
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KGP16016**

GURU PRO AS-R

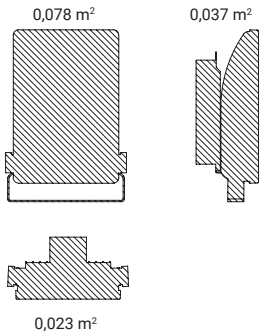
DIMENSIONAL



FIXTING



WIND RESISTANCE



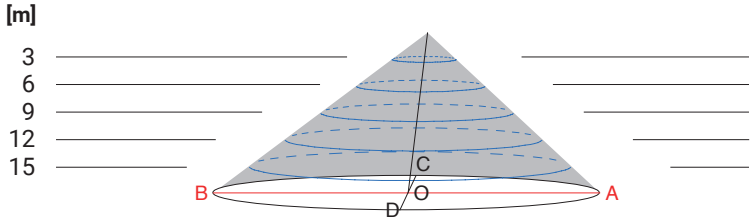
WEIGHT (Kg)

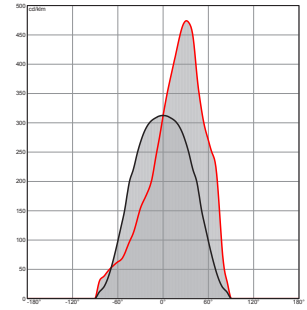
6,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C

AS [OPTIC]



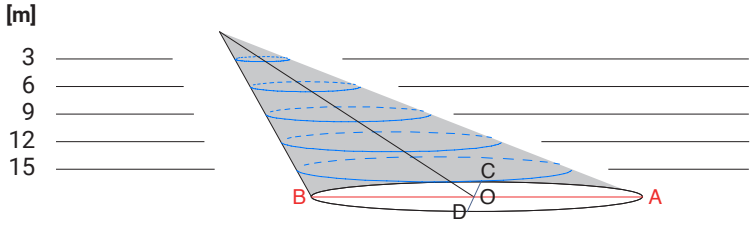


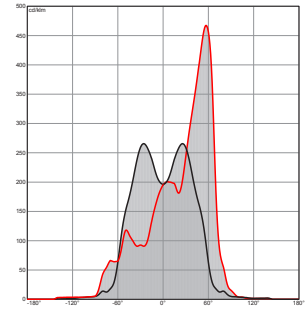
	KGP16016AS		KGP16018AS		KGP18022AS		KGP18027AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	433	52	478	58	587	71	697	84
6	108	13	120	14	147	18	174	21
9	48	6	53	6	65	8	77	9
12	-	-	30	4	37	4	44	5
15	-	-	-	-	-	-	-	-

	KGP24010AS		KGP24014AS		KGP260008AS		KGP26010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	420	51	529	64	467	56	599	72
6	105	13	132	16	117	14	150	18
9	47	6	59	7	52	6	67	8
12	-	-	33	4	29	4	37	5
15	-	-	-	-	-	-	-	-

	KGP26014AS		KGP28017AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	773	93	936	113
6	193	23	234	28
9	86	10	104	13
12	48	6	58	7
15	31	4	37	5

R [OPTIC]





	KGP16016R		KGP16018R		KGP18022R		KGP18027R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	690	275	750	300	940	370	1100	430
6	175	70	190	75	235	95	275	110
9	75	30	85	35	105	45	125	45
12	45	18	50	20	60	25	70	30
15	28	10	30	12	40	15	45	18



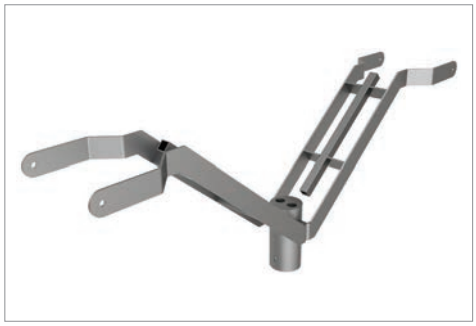
KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



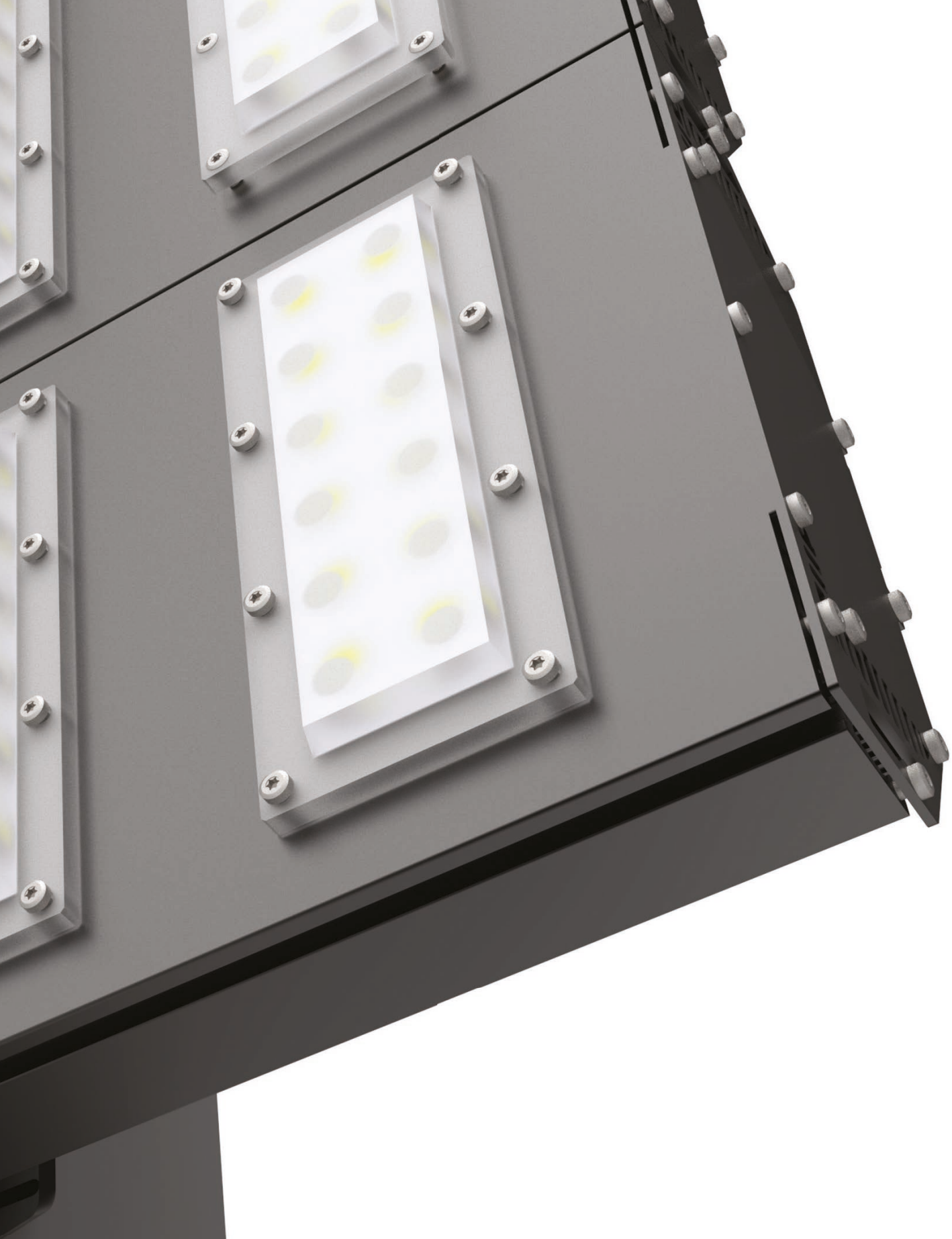
KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)



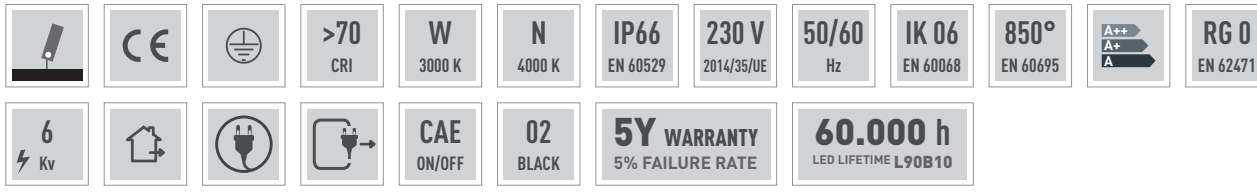
GRUPPO RAINA
L'unione fa la luce.



ASSO

ASSO





EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. LED light source. Molded PMMA optics with high optical efficiency. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile, completa di goniometro, in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, . Ottiche in PMMA stampato ad alto rendimento ottico. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Emissione diretta. Sorgente luminosa LED.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Emission directe. Source lumineuse LED. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Fuente de luz LED. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

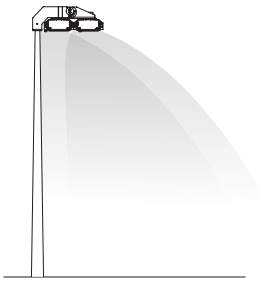
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

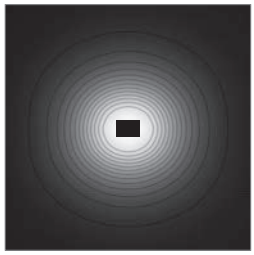
RU

Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Прямой поток света. Светодиодный источник света. Оптика из ПММА с высокой оптической эффективностью. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

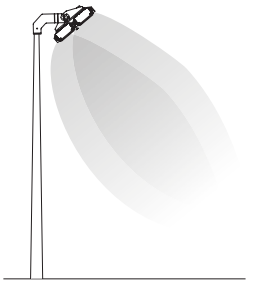
Beams [ASSO 96-120-180-216]

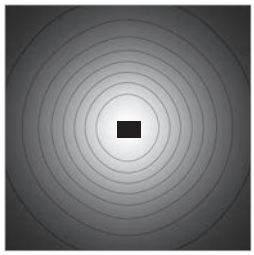
S [OPTIC]



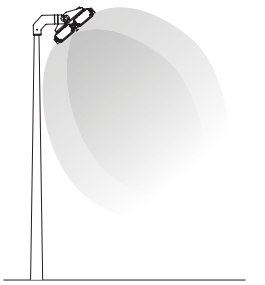


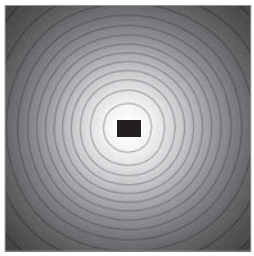
M [OPTIC]



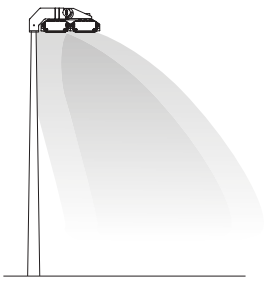


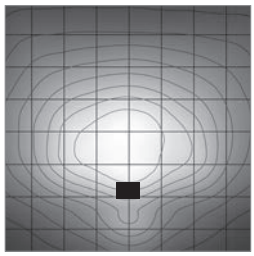
D [OPTIC]





T4 [OPTIC]



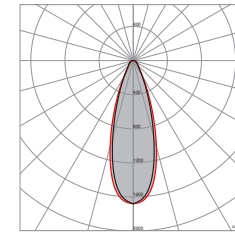


ASSO 96 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96SW/N**02**	64475	60540	455	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



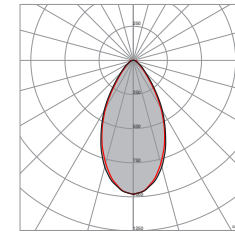
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96MW/N**02**	64475	60050	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



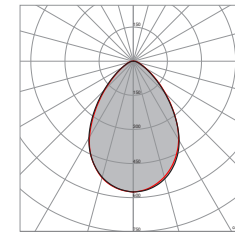
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96DW/N**02**	64475	61150	455	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



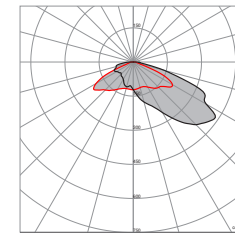
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96TW/N**02**	64475	59960	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS96** **S** W/N **02**

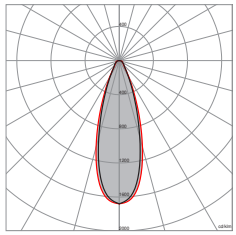
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS96**

ASSO 120 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120SW/N**02**	80590	75670	569	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



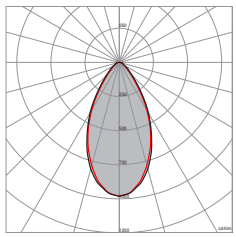
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120MW/N**02**	80590	75050	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



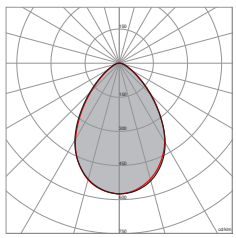
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120DW/N**02**	80590	76440	569	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



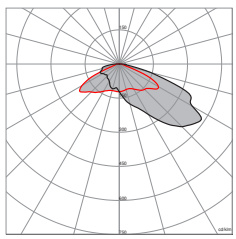
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120TW/N**02**	80590	74950	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS120** **S** W/N **02**

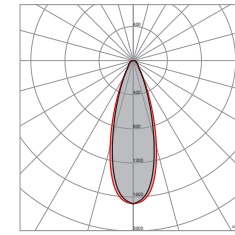
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS120**

ASSO 180 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180SW/N**02**	120890	113505	854	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



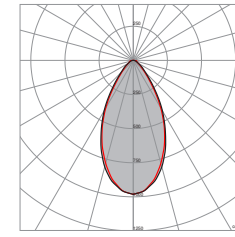
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180MW/N**02**	120890	112580	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



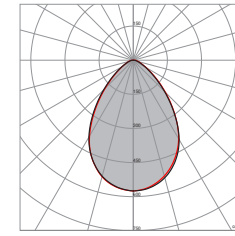
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180DW/N**02**	120890	114670	854	> 134	1500

W/N= **W** (3000 K) | **N** (4000 K)



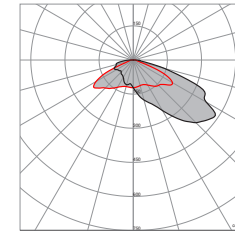
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180TW/N**02**	120890	112430	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS180** **S** W/N **02**

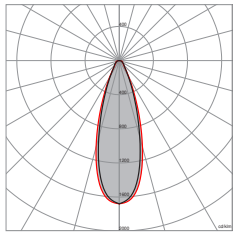
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS180**

ASSO 216 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216SW/N**02**	145060	136205	1025	> 133	2000

W/N= **W** (3000 K) | **N** (4000 K)



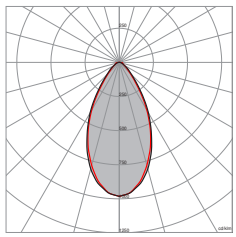
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216MW/N**02**	145060	135100	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



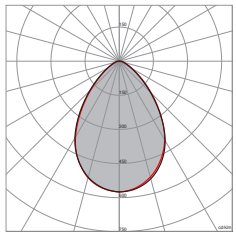
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216DW/N**02**	145060	137595	1025	> 134	2000

W/N= **W** (3000 K) | **N** (4000 K)



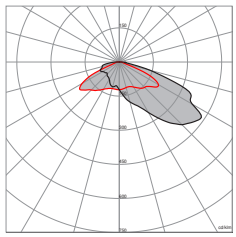
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216TW/N**02**	145060	134900	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

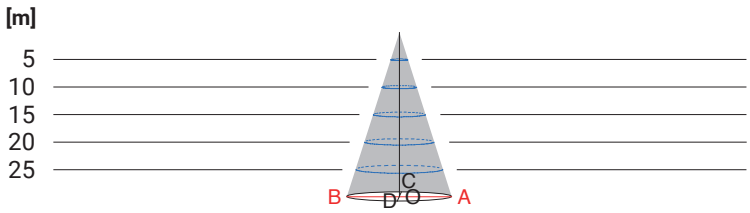
Code

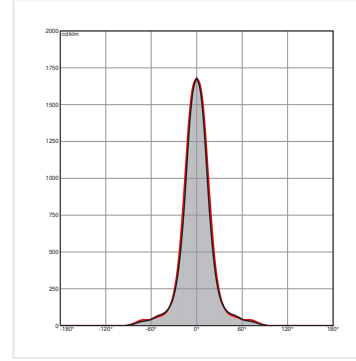
Code Ordering example: **KSS216** **S** W/N **02**

- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS216**

Beams [ASSO 96-120-180-216]

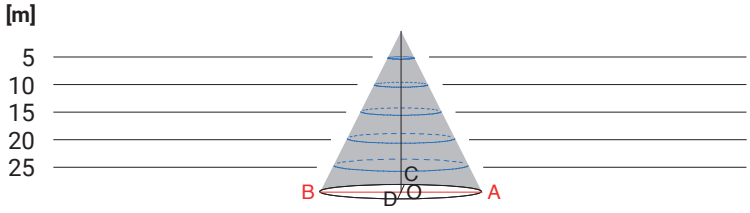
S [OPTIC]

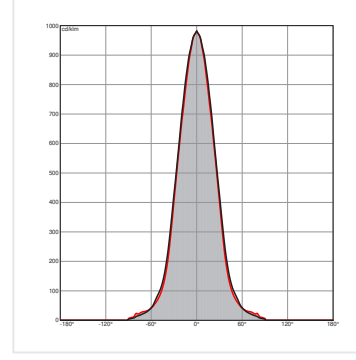




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	4360	2625	5450	3232	-	-	-	-
10	1100	660	1365	820	2050	1231	2450	1480
15	485	290	605	365	910	550	1090	656
20	275	165	340	205	510	310	615	370
25	175	105	220	130	330	200	395	240

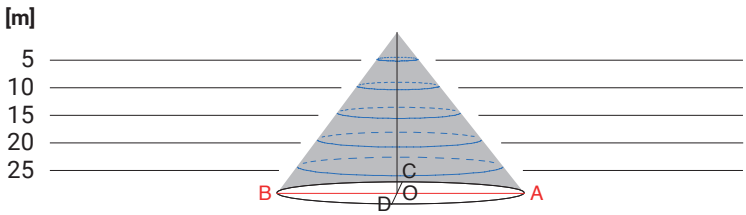
M [OPTIC]

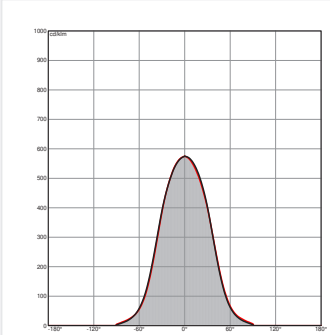




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	2550	1315	3180	1650	4770	2470	-	-
10	640	330	795	415	1200	620	1430	740
15	285	150	355	185	530	275	640	330
20	160	85	200	105	300	155	360	185
25	105	55	130	70	190	100	230	120

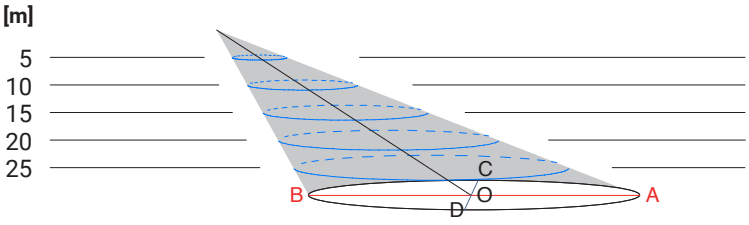
D [OPTIC]

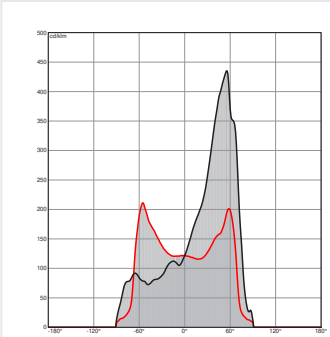




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	1485	670	1855	840	2780	1260	3340	1510
10	370	170	465	210	695	315	835	380
15	165	75	205	95	310	140	370	170
20	95	45	120	55	175	80	210	95
25	60	30	75	35	115	50	135	60

T4 [OPTIC]





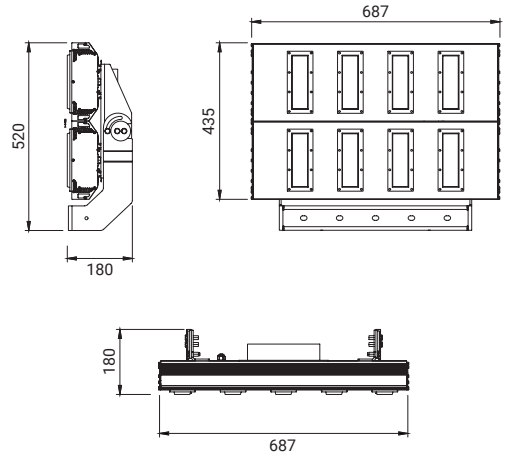
	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	430	85	540	110	810	160	920	145
10	110	21	135	30	205	40	230	35
15	50	9	60	12	90	18	105	20
20	27	5	35	7	50	10	57	12
25	17	3	22	4	32	6	37	8

C

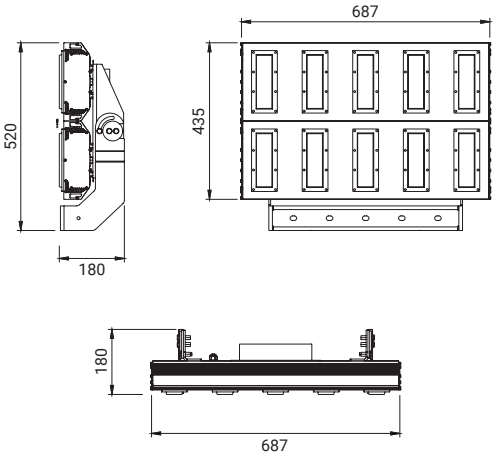
ASSO 96 - 120

DIMENSIONAL

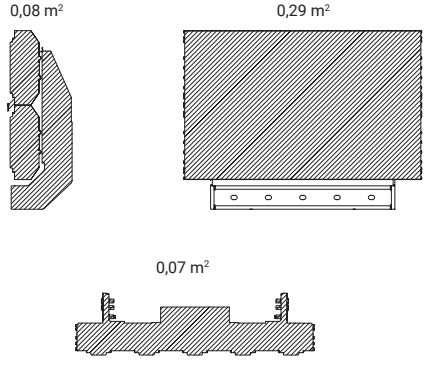
ASSO 96

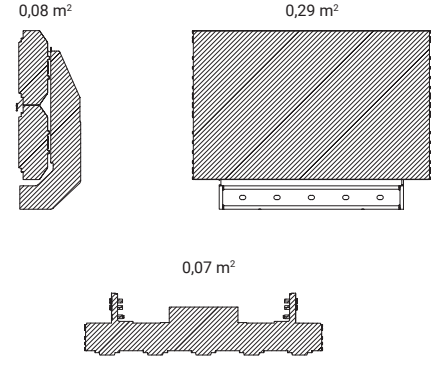


ASSO 120



WIND RESISTANCE





WEIGHT (Kg)

ASSO 96: **26,0** - ASSO 120: **26,0**

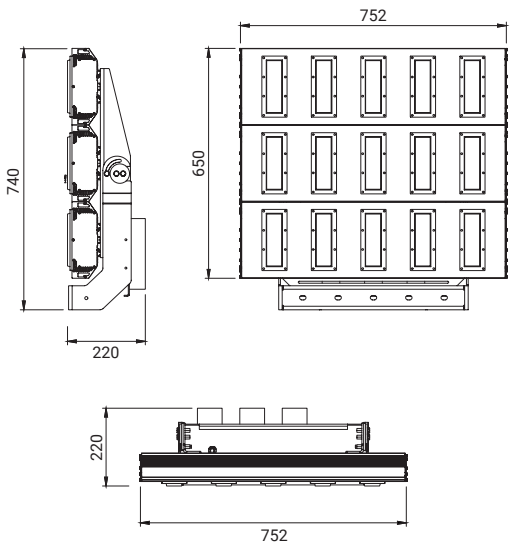
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 96 - 120: **-20 ~ +45°C**

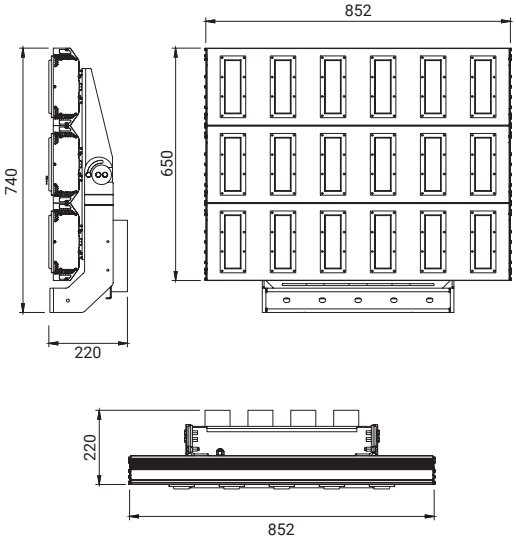
ASSO 180 - 216

DIMENSIONAL

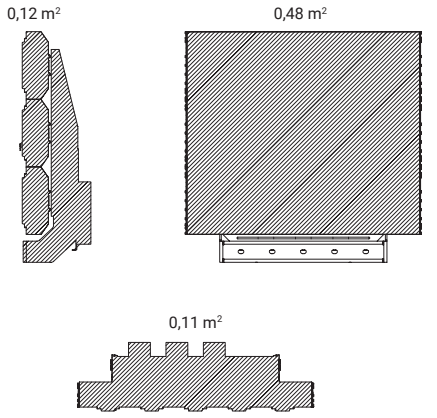
ASSO 180

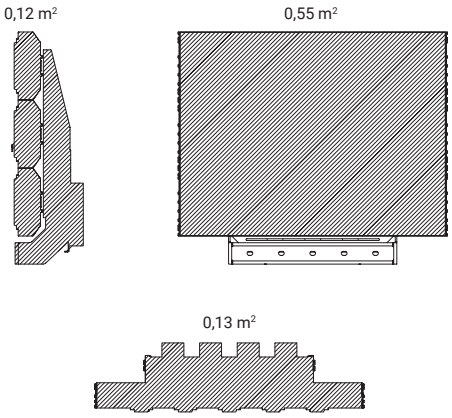


ASSO 216



WIND RESISTANCE





WEIGHT (Kg)

ASSO 180: **45,0** - ASSO 216: **50,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 180 - 216: **-20 ~ +45°C**

GRUPPO RAINA

L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

LOOKUP® - IDEALLUX® PRESENTATION



EN
IDEALLUX® historic production specializing in the manufacture and sale of lighting fittings for the industrial and tertiary sector. LOOKUP® new and wide range of decorative and architectural appliances.

IT
IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. LOOKUP® nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
IDEALLUX® production historique spécialisée dans la fabrication et la vente d'appareils destinés aux secteurs industriels et du tertiaire. LOOKUP® nouvelle et ample gamme d'appareils décoratifs et architecturaux.

ES
IDEALLUX® producción histórica especializada en la fabricación y venta de luminaria para los sectores industriales y terciario. LOOKUP® nueva y amplia gama de luminarias decorativas y arquitectónicas.

DE
IDEALLUX® historische Produktion, spezialisiert auf die Herstellung und den Verkauf von Leuchten für die Industrie und tertiären Sektors. LOOKUP® neue und breite Palette dekorativen und architektonischen Geräten.

RU
Историческое производство IDEALLUX®, специализирующееся на производстве и продаже устройств для промышленного сектора и третичного сектора. LOOKUP® с его новым и широким ассортиментом декоративных и архитектурных приборов.

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CATALOGUE PRESENTATION

PRODUCTS

SUSPENSION


Aquadro i-L


Eliot i-L


Nori i-L


Jeè i-L


Squak


Loft


Maciste


Round


Round IP55


Arrondo


Ufo


Tubì CM-S

Adalpina


Circo


Olimpia


Libra

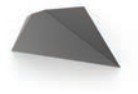

Opalia i-L


Bolerino

WALL


Alba


Tink


Faces M


Calea


Zoe M - Zoe


Talè M - Talè


Ester


Dudu


Dosi


Gina


Malì S-AM


Leila


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Pia


Trem


Bombei M


Pla

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CATALOGUE PRESENTATION

PRODUCTS

FLOOR



Amadeus



Silence



Utile



Zero



Birba



Furba

RECESSED



Demi Led



Sei



Uno



Rio



Nero



Hollow

TABLE LAMP



Lina



Squadra



Sphere



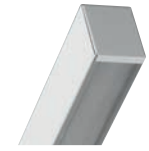
Stilo

www.grupporaina.it/it/lookup

PRODUCTS

A SUSPENSION | CEILING RECESSED | TRIMLESS | CONTINUOS LINE


Algebra OP


Algebra MP


Algebra Small OP


Algebra Small MP


Algebra Micro OP


Algebra Micro MP


Algebra System OP


Algebra System MP


Algebra System Small OP


Algebra System Small MP


Algebra System Micro OP


Algebra System Micro MP


Giunti Luminosi
A.S. OP/MP


Giunti Luminosi
A.S. SMALL OP/ MP


Giunti Luminosi
A.S. MICRO OP/ MP

B SUSPENSION | CEILING | WALL


Flooting Led
Dir.


Flooting Led
Dir./Ind.


Flat Line Led Dark-Dir.


Flat Line Led Dark-Dir./Ind.


Relax Led Spa


Relax Led Spa R


Relax Led


Relax Led R


BB Teck


BB Led


Flat Smash Led


Gardena Led

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

C DECORATIVE SUSPENSION | CEILING



Basket Led
Basket Led IP 55



Jerrimo



Plato



Luly Shop



Bolero Shop



Coco Led

D LED LIGHT BATTEN " EXTENDABLE”



Dedica HF



Dedica ASL HF



Profili HF



Rek Led

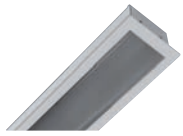


Rek Led Sensor

E RECESSED



Alg Up OP



Alg Up MP



Alg Up Small
OP



Alg Up Small
MP



Alg Up Micro
OP



Alg Up Micro
MP



Controled EB Dark



Controled EB UGR



Controled EB
OPAL



Controled SPA



Controled SPA
2 Luci



Controled SPA R

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PRODUCTS

E RECESSED


Contro Flat Led MP


Moreflat MP


Controplus UGR

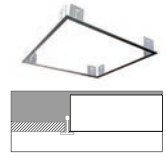

Controplus OPAL


Controplus R UGR


Controplus R OPAL


Compatta UGR


Contro Clip-In UGR


Telai/*Frames*

Adrian

Adrian UGR

F RECESSED DOWNLIGHT


Clock Led S


Clock Led T


Clock Led MP


New Remisi 230 (S)


New Remisi 230 (M)


New Remisi 200 (S)


New Remisi 200 (M)


Doria 230 (VS)


Doria 190 (VS)


Spotled OP


Spotled MP


Inca 150


Inca 125


New White 230


New White 200


New White 150


Enne


Sii

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

G ADJUSTABLE RECESSED


Automa Led (1)


Automa Led (2)


Automa Led (3)


Giro Led (1)


Giro Led (2)


Giro Led (3)


Mini Giro


Roller Led


Mini Automa Led (1)


Mini Automa Led (2)


Mini Automa Led (3)


Rumba Led


Flamenko Led


Jwe Led


Mambo Led

H TRACK LIGHTS


Beba


Lerica


Vale


Don


Smile


Binario Dali

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PRODUCTS

CONTINUOS LINE SYSTEMS



Bingo Led



Bingo System Led



Bingo System Led Plus



Binlens System EX



Binlens System ST

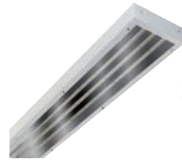


Binlens System BT

INDUSTRIAL & COMMERCIAL



AMBI U



AMBI I



Futura



Futura Plus



Futura Small



Futura IP55D



Dundi LED



DN Led



Essential COB



Essential



Luly



Bolero



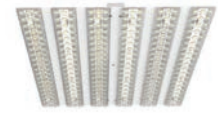
Plike R



Plike Q



Sottile R

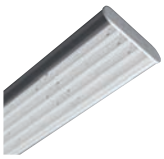


Sottile Q

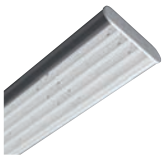
PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

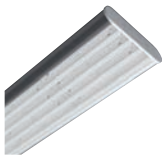
INNOVA XL



Innova XL 1500
Satinato/*Satin*



Innova XL 1200
Satinato/*Satin*



Innova XL SM 600
Satinato/*Satin*



Innova XL 1500
Opale/*Opal*



Innova XL 1200
Opale/*Opal*



Innova XL
INTENSIVE



Innova XL DARK



Innova XL
SAHARA +70°C

INNOVA



Innova
VARIO KELVIN®



Innova MEGA 1500
Satinato/*Satin*



Innova MEGA 1200
Satinato/*Satin*



Innova MEGA 1500
Opale/*Opal*



Innova MEGA 1200
Opale/*Opal*



Innova MEGA 1500
Rigato/*Ribbed*



Innova MEGA 1200
Rigato/*Ribbed*



Innova 1500
Satinato/*Satin*



Innova 1200
Satinato/*Satin*



Innova 600
Satinato/*Satin*



Innova 1500
Opale/*Opal*



Innova 1200
Opale/*Opal*

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PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

INNOVA


Innova 600
Opale/*Opal*


Innova 1500
Rigato/*Ribbed*


Innova 1200
Rigato/*Ribbed*


Innova 600
Rigato/*Ribbed*


Innova
INTENSIVE


Innova
CONCENTRANTE


Innova PARK


Innova
ASIMMETRICA


Innova ARCTIC
-25°C + 40°C


Innova ARCTIC
-40°C + 40°C


Innova SAHARA
-20°C + 70°C


Innova LONG 3000
Satinato/*Satin*


Innova LONG 2400
Satinato/*Satin*


Innova LONG 1900
Satinato/*Satin*


Innova LONG
3000
Opale/*Opal*


Innova LONG 2400
Opale/*Opal*


Innova LONG 1900
Opale/*Opal*


Innova LONG 3000
Rigato/*Ribbed*


Innova LONG 2400
Rigato/*Ribbed*


Innova LONG 1900
Rigato/*Ribbed*


Innova UT
Satinato/*Satin*


Innova UT
Opale/*Opal*


Innova 110V


Innova 48V


Innova 24V

PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

ZITA



ZITA
Opale/*Opal*



ZITA RAPID
Opale/*Opal*



ZITA 3P
Opale/*Opal*



ZITA 5P
Opale/*Opal*



ZITA LONG 3P
Opale/*Opal*



ZITA LONG 5P
Opale/*Opal*

CHEMICAL AGENTS RESISTANCE (ART. 520)

AGENTE CHIMICO	*CHEMICAL AGENT*	POLICARBONATO (PP) | POLYCARBONATE		
		RESISTENTE *RESISTANT*	NON RESISTENTE *NOT RESISTANT*	RESISTENTE MODERATA-MENTE *MODERATELY RESISTANT*
olio diesel-nafta	*diesel-naphta*			•
olii minerali	*mineral oils*		•	
olii e grassi alimentari	*dietary oils and fats*			•
acetone	*acetone*		•	
acido acetico 10%	*acetic acid 10%*	•		
acido arsenico 10%	*arsenic acid*	•		
acido carbonico	*carbonic acid*		•	
acido citrico 20%	*citric acid 20%*	•		
acido cloridrico 1-5%	*hydrochloric acid 1-5%*	•		
acido cromico	*chromic acid*			•
acido formico 30%	*formic acid 30%*		•	
acido nitrico 20%	*nitric acid 20%*			•
acido perclorico 10%	*perchloric acid 10%*	•		
acido solforico 30%	*sulphuric acid 30%*	•		
olii siliconici	*silicone acids*	•		
alcool benzilico	*benzyl alcohol*		•	
alcool etilico	*ethylene alcohol*	•		
alcool isopropilico	*isopropyl alcohol*		•	
ammoniaca 5%	*ammonia 5%*		•	
anilina	*aniline*			•
zucchero	*sugar*			•
zolfo	*sulphur*	•		
bevande alcoliche	*alcoholic drinks*	•		
benzene	*benzene*		•	
benzolo	*benzol*		•	
bromo	*bromine*			•
bromuro di potassio	*potassium bromide*	•		
caustica potassio	*potassium caustic*		•	
cemento	*concrete*	•		
clima marino	*marine climate*	•		
cloro liquido (vapori)	*liquid chlorine*		•	
cloroformio	*chloroform*		•	
cloruro di calcio	*calcium chloride*	•		
cloruro di ferro	*iron chloride*			•
cloruro di etile	*ethyl chloride*		•	
cloruro di sodio	*sodium chloride*	•		
cloruro solforico	*sulphuric chloride*		•	
etiletere	*ethyl ether*		•	
fenolo	*phenol*	•		
benzina	*gasoline*			•
glicerina	*glycerol*			•
esano	*hexane*		•	
idrocarburi	*hydrocarbone*		•	
idrossido sodico 5%	*sodium hydroxide 5%*		•	
candeggina di soda	*soda bleach*	•		
mercurio	*mercury*		•	
metanolo	*methanol*	•		
nitrato di calcio	*calcium nitrate*	•		
nitrato di potassio	*potassium nitrate*	•		
ossigeno	*oxygen*	•		
ozono	*ozone*	•		
permanganato di potassio	*potassium permanganate*			•
petrolio	*petrolium*	•		
soda	*soda*	•		
solfato di alluminio	*aluminum sulfate*	•		
solfato di zinco	*zinc sulfate*	•		
solfato di rame	*copper sulfate*	•		
solfato di manganese	*manganese sulfate*	•		
solfato di sodio	*sodium sulfate*		•	
tetracloruro di carbonio	*carbon tetrachloride*		•	
tricloroetilene	*trichloroethylene*		•	
iodio	*iodine*		•	

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
UFFICI	***OFFICE***				
Scrittura, lettura ed elaborazione dati	*Writing, reading and data processing*	500	19	0,60	80
Postazioni CAD	*CAD workstations*	500	19	0,60	80
Disegno tecnico	*Technical design*	750	16	0,70	80
Sala conferenza e riunioni	*Conference and meeting rooms*	500	19	0,60	80
Archiviazione, copiatura, ect	*Filing, copying*	300	19	0,40	80
Banco della reception	*Reception*	300	22	0,60	80
EDIFICI SCOLASTICI	***SCHOOL BUILDINGS***				
Aule locale giochi e nido	*Classrooms games in kindergarten & nursery*	300	22	0,40	80
Aule scolastiche	*Classrooms*	300	19	0,60	80
Aule per corsi serali e per adulti, aule per educazione artistica, auditorium e aule lettura	*Classrooms in night school and adult, education drawing, auditorium and reading rooms*	500	19	0,60	80
Lavagne e schermi bianchi o verdi (illuminazione verticale)	*Blackboars and white or green screen (vertical lighting)*	500	19	0,70	80
Laboratori	*Laboratory*	500	19	0,60	80
Aule per disegno tecnico	*Classrooms for technical drawing*	750	16	0,70	80
Aula di musica e laboratori linguistici	*Music classrooms and language labs*	300	19	0,60	80
Aula di preparazione ed officine	*Classrooms of preparation and workshops*	500	22	0,60	80
Laboratorio di informatica	*Computer labs*	300	19	0,60	80
Ingressi	*Entrance*	200	22	0,40	80
Sale comuni per studenti e aula magna	*Comm. rooms for students and lobby today*	200	22	0,40	80
Sala professori	*Sale professors*	300	1	0,60	80
Magazzini materiale didattico	*Warehouses teaching materials*	100	25	0,40	80
Palazzetti, palestre e piscine (uso generale)	*Halls, gyms, swimming pools (general purpose)*	300	22	0,60	80
Mensa	*Canteen*	200	22	0,40	80
BIBLIOTECHE	***LIBRARIES***				
Scaffali (illuminamento verticale)	*Shelves (vertical lighting)*	200	25	0,40	80
Posti di servizio pubblico, lettura	*Places of service to the public*	500	22	0,60	80
RISTORANTI, HOTEL E MENSE	***RESTAURANTS, HOTEL AND CANTEEN***				
Corridoi negli hotel	*Corridors for hotel*	100	25	0,40	80
Ristoranti self-service	*Self-service restaurants*	200	22	0,40	80
Cucina	*Kitchen*	500	22	0,60	80
Sale conferenze	*Conference room*	500	19	0,40	80
ZONE DI TRANSITO E AREE GENERALI ALL'INTERNO DEGLI EDIFICI	***AREAS OF TRANSIT AND GENERAL AREAS INSIDE BUILDINGS***				
Area di passaggio e corridoi (illuminamento a pavimento)	*Passage areas and hallway (floor lighting)*	100	28	0,40	40
Scale, scale mobili, ascensori e montacarichi	*Stairs, elevators, escalators and goods lift*	100	25	0,40	40
Rampe e binari di carico	*Ramps and loading rails*	150	25	0,40	40
Locali tecnici e sala interruttore	*Technical rooms and switch room*	200	25	0,40	60
INDUSTRIALI ED ARTIGIANALI	***INDUSTRIAL AND CRAFT***				
AGRICOLTURA	***AGRICULTURE***				
Edifici per bestiame	*Buildings for cattle*	50	-	0,40	80
Carico e manovra delle merci, uso di attrezzatura	*Loading and operating goods, machinery handling*	200	25	0,40	80
Preparazione mangime, caseifici, lavaggio utensili, celle parto e zone animali	*Preparing food, dairy, washing utensils, cell parto and areas for animals*	200	25	0,60	80
INDUSTRIA CHIMICA, DELLA PLASTICA E DELLA GOMMA	***CHEMICAL INDUSTRY, PLASTIC AND RUBBER***				
Luoghi di lavoro con presenza di personale	*Workplaces with continuous presence of staff*	300	25	0,40	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Produzione farmaceutica e produzione di pneumatici	*Pharmaceutical and tires production*	500	22	0,60	80
Ambienti per misurazione di precisione e laboratori	*Laboratory for precision measurement*	500	19	0,60	80
Taglio, finitura e controllo	*Cutting, finishing and control*	750	19	0,70	80
Ispezione colore	*Check colour*	1000	16	0,70	90
INDUSTRIA ALIMENTARI	***FOOD INDUSTRY***				
Fabbriche di birra, conserve, cioccolato, zucchero, fermentazione di tabacco e cantine di fermentazione	*Breweries, tinned, chocolate, sugar, fermation of tobacco and fermation cellars*	200	25	0,40	80
Selezione e lavaggio prodotti. Confezionamento. Taglio e selezione di vegatali e frutta	*Selection and cleaning products. Packaging. Cutting and selection of vegetables and fruit*	300	25	0,60	80
Produzione gastronomica, lavori di cucina, produzione sigari e sigarette	*Gastronomic production, kitchen work, manufacture cigarettes*	500	22	0,60	80
Postazione di lavoro in macellerie, caseifici e mulini	*Workstations in butchers, dairies and mills*	500	25	0,60	80
Controllo di vetri e bottiglie. Controllo prodotti	*Check of glass and bottles. Check product*	500	22	0,60	80
Ispezione colore	*Check colour*	1000	16	0,70	90
LAVORAZIONE E TRASFORMAZIONE METALLI. INDUSTRIA ELETTRICA ED ELETTRONICA	***MANUFACTURING AND PROCESSING METALS. ELETRICAL AND ELECTRONICS INDUSTRY***				
Lavorazione a macchina grossolana e media	*Coarse and medium machine manufacturing*	300	22	0,60	80
Lavorazione a macchina di precisione	*Fine machine manufacturing*	500	19	0,70	80
Fucinatura a stampo, saldatura, costruzione tubi, formatura a freddo e laboratorio di trafilatura	*Forging mold, welding, pipe construction , cold forming and wire drawing workshop*	300	25	0,60	80
Tranciatura, ispezione, fabbricazione utensili e ambienti da taglio	*Tracking, check, ,utensil and cutting tool manufacturing*	750	19	0,60	80
Galvanizzazione, fabbricazione cavi e fili, impregnazione delle bobine	*Galvanizzation, manufactur of cable and wires, impregnation of coils*	300	25	0,60	80
Assemblaggio grossolano (lav. metalli)	*Coarse assembly (processing metals)*	200	25	0,60	80
Assemblaggio grossolano (indutria elettrica) e medio (lavorazione metalli)	*Coarse assembly (electrical industry) and medium assembly (processing metals)*	300	25	0,60	80
Assemblaggio medio (industria elettrica) e fine (lavorazione metalli)	*Medium assembly (electrical industry) and fine assembly (processing metalsy)*	500	22	0,60	80
Assemblaggio fine (industria elettrica) e di precisione (lavorazione metalli)	*Fine assembly (electrical industry) and precise assembly (processing metalsy)*	750	19	0,70	80
Assemblaggio di precisione (industria elettrica)	*Precise assembly (electrical industry)*	1000	16	0,70	80
Preparazione superfici e verniciatura	*Surface preparation and painting*	750	25	0,70	80
CENTRALI ELETTRICHE	***POWER STATIONS***				
Impianti alimentazione combustibile	*Combustible power plant*	50	-	0,40	20
Locale caldaie	*Boiler room*	100	28	0,40	40
Sala macchine	*Machine room*	200	25	0,40	80
Locali pompe, condesatori, quadri di controllo	*Pump rooms, condensers, control panels*	200	25	0,40	60
Sale di controllo	*Control rooms*	500	16	0,70	80
LAVORAZIONE E MANIFATTURA TESSILE	***LAMINATION AND TEXTILE MANUFACTURING***				
Zona di lavoro a lato delle vasche	*Working area at wash tubs*	200	25	0,60	60

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Lavaggio, stiratura, filatura,incollaggio	*Washing, ironing, spinning, bonding*	300	22	0,60	80
Filatura, aspatura, bobinatura, finitura, intrecciatura, tintura e tessitura. Manifattura cappelli	*Spinning, reeling, spooling, finishing, braiding, dyeing, weaving. Hat manifacturing*	500	22	0,60	80
Cucitura, maglieria fine, rimagliatura e rammendo	*Seaming, fine knitting, hooking and mending*	750	22	0,70	80
COSTRUZIONE VEICOLO	***VEHICLE CONSTRUCTION***				
Servizi generali per veicoli, riparazione e verifica	*General Vehicle Services, Repair and Inspection*	300	22	0,60	80
Carrozzeria ed assemblaggio	*Bodywork and assembly*	500	22	0,60	80
Camera di verniciatura, spruzzatura, lucidatura	*Paint chamber, polishing*	750	22	0,70	80
Verniciatura (ritocco, controllo), fabbricazione rivestimenti interni e controllo finale	*Painting (touch up, control), Inner lining manufacturing, final control*	1000	19	0,70	80
LAVORAZIONE E MANIFATTURA DI LEGNO	***WOOD MANUFACTURING AND PROCESSING***				
Processi automatici	*Automatic processes*	50	28	0,40	40
Camera del vapore	*Steam rooms*	150	28	0,40	40
Sega	*Saw*	300	25	0,60	60
Lavori dal banco di falegnameria, incollaggio e assemblaggio	*Counter work, assembly*	300	25	0,60	80
Lucidatura, verniciatura	*Polishing, painting*	750	22	0,70	80
Lavorazione su macchine	*Machine manufacturing*	500	19	0,60	80
Selezione legno per impiallacciatura, intarsio	*Wood selection, inlay*	750	22	0,70	90
Verifica di controllo ed ispezione	*Quality control, ispection*	1000	19	0,70	90
MAGAZZINI - MAGAZZINI REFRIGERANTI	**WAREHOUSES - REFRIGERATED WAREHOUSES**				
Zone di stoccaggio	*Storage areas*	100	25	0,40	60
Zona di movimentazione, imballaggio, spedizione	*Movement areas, packaging, shipping*	300	25	0,60	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - staff presence passage (floor lighting)*	150	22	0,40	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - no staff passage (floor lighting)*	150	22	0,40	40
Stazione di controllo	*Control station*	150	22	0,60	80
LUOHI DI CURA	***HEALTH AREAS***				
Corridoio (notte)	*Corridors (night)*	50	22	0,40	80
Corridoio (giorno)	*Corridors (daytime)*	100	22	0,40	80
Visita semplice	*Visit simple*	300	19	0,60	80
Visita e trattamento	*Visit and treatment*	1000	19	0,70	90
Locali diagnostici (Illuminazione generale)	*Diagnostic rooms (visits and treatment)*	500	19	0,60	90
Locale pre-operatorio e risveglio	*Pre-operating room*	500	19	0,60	90
Sala operatoria	*Operating room*	1000	19	0,60	90
Laboratorio, farmacia (illuminazione generale), ufficio per il personale	*Laboratory, pharmacy (general lighting), staff office*	500	19	0,60	80
Massaggio, radioterapia, endoscopia,esami semplici	*Massage, radiotherapy, endoscopy, simple exams*	300	19	0,60	80
Infermeria, ingessatura, dialisi	*Infirmary, plaster, dialysis*	500	19	0,60	80
Odontoiatria (illuminazione generale), dermatologia	*Dentistry (general illumination), dentology*	500	19	0,60	90
Sala di sterilizzazione e disinfezione	*Room for sterilization and disinfection*	300	22	0,60	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
PARCHEGGI PUBBLICI	***COVERED PARKING***				
Rampe di ingresso/uscita (durante il giorno)	*Entry/exit ramp (daytime)*	300	25	0,40	10
Rampe di ingresso/uscita (durante la notte)	*Entry/exit ramp (night)*	75	25	0,40	40
Corsie di circolazione	*Circolations lanes*	75	25	0,40	40
Zone di parcheggio	*Parking zones*	75	-	0,40	40
Biglietteria	*Ticket office*	300	19	0,60	80
AEROPORTI	***AIRPORT***				
Zone di collegamento	*Connection areas*	150	22	0,40	80
Sala di attesa, Sala di arrivo e partenza, zona ritiro bagagli	*Waiting room, Arrival and departure room, baggage claim area*	200	22	0,40	80
Banchi informazioni, accetazione, dogana e controllo passaporti	*Information banks, acceptance, customs and passport control*	500	19	0,70	80
Deposito bagagli	*Baggage storage*	200	25	0,40	80
Zone di controllo di sicurezza	*Safety control zone*	300	19	0,60	80
STAZIONI FERROVIARIE	***RAILWAY STATIONS***				
Banchine, bassa di densità di persone	*Quay, low density of people*	100	-	0,40	40
Banchine, alta densità di persone	*Quay, high density of people*	200	-	0,50	60
Sottopassaggi, bassa di densità di persone	*Subway, low density of people*	50	28	0,50	40
Sottopassaggi, alta densità di persone	*Subway, high density of people*	100	28	0,50	40
Biglietteria, deposito bagagli, cassa	*Ticket office, baggage storage, cash*	300	19	0,50	80
Sala d'attesa	*Waiting room*	200	22	0,40	80
Ingressi, sale stazione	*Entrance, station room*	200	-	0,40	80
Gallerie d'accesso	*Access tunnel*	50	-	0,40	20
AMBIENTI SPORTIVI AL COPERTO (C.O.N.I.) - norma EN 12193	***OPEN SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	200	-	0,50	-
Atletica leggera (agonistico a liv. locale)	*Athletics (agonistic at the local level)*	300	-	0,60	-
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500	-	0,70	-
Attività natatorie (non agonistico)	*Swimming activities (not agonistic)*	200	-	0,50	-
Attività natatorie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300	-	0,70	-
Attività natatorie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500	-	0,70	-
Calcio a 5 (non agonistico)	*5-a-side football (not agonistic)*	200	-	0,50	-
Calcio a 5 (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	500	-	0,70	-
Calcio a 5 (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	750	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	200	-	0,50	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	500	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	750	-	0,70	-
Tennis (non agonistico)	*Tennis (not agonistic)*	300	-	0,50	-
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	500	-	0,70	-
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	750	-	0,70	-

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
AMBIENTI SPORTIVI ALL'ESTERNO (C.O.N.I.) - norma EN 12193	***CLOSE SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	100		0,50	
Atletica leggera (agonistico a livello locale)	*Athletics (agonistic at the local level)*	200		0,50	
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500		0,70	
Attività natatoie (non agonistico)	*Swimming activities (not agonistic)*	200		0,50	
Attività natatoie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300		0,70	
Attività natatoie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500		0,70	
Calcio (non agonistico)	*5-a-side football (not agonistic)*	75		0,50	
Calcio (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	200		0,60	
Calcio (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	500		0,70	
Calcio a 5 (non agonistico)	*Football (not agonistic)*	100		0,50	
Calcio a 5 (agonistico a livello locale)	*Football (agonistic at the local lovel)*	200		0,70	
Calcio a 5 (agonistico a livello nazionale od internazionale)	*Football (agonistic at national or international level)*	500		0,70	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	100		0,50	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	200		0,60	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	500		0,70	
Tennis (non agonistico)	*Tennis (not agonistic)*	200		0,60	
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	300		0,70	
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	500		0,70	
AREE ESTERNE (CIE 129)	***EXTERNAL AREAS (CIE 129)***				
Parcheggi di negozi, di scuole e condominiali	*Store, school and condo parking lots*		5		
Lavoro molto grezzo, carico e scarico	*Rough work, loading and unloading*		20		
Lavoro grezzo, trasporto e immagazzinamento	*Rough work, transportation and storage*		50		
Camminamenti per pedoni	*Pedestrian walkways*		5		

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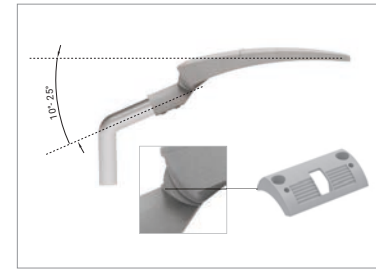
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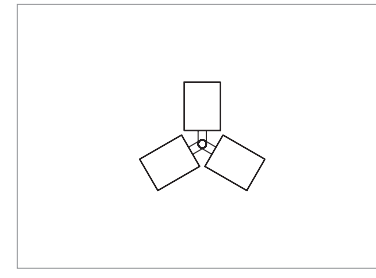
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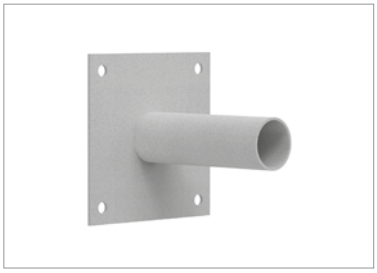


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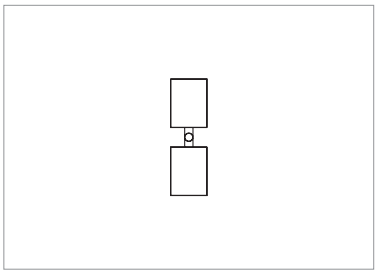
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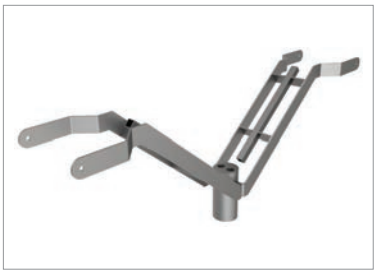
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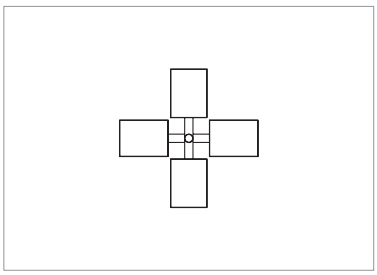
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KATRD

NOTE

GENERAL SALES CONDITIONS

1. PREMESSE
Le forniture comprendono solo quanto espressamente specificato nella conferma di accettazione dell'ordine della ditta Venditrice e sono regolate dalle presenti condizioni generali, salvo deroghe risultanti da esplicito accordo scritto. Eventuali variazioni o comunicazioni durante il corso della fornitura non costituiscono invalidazione del contratto. I termini di consegna convenuti hanno valore indicativo e non tassativo. In qualunque momento l'esecuzione della fornitura potrà essere sospesa in caso di mutamento nelle condizioni patrimoniali del Committente ai sensi dell'Art. 1461 del Codice Civile.

2. PREZZI
I prezzi si intendono Franco Fabbrica della ditta Venditrice. Essi non comprendono prestazioni ed oneri non menzionati. Gli imballaggi sono inclusi nel prezzo, salvo diversa pattuizione scritta.

3. VARIABILITA' PREZZI
I prezzi indicati nel contratto sono stati calcolati in base ai costi dei materiali e della manodopera alla data del contratto stesso, in base alle relative tabelle dell'ANIE. Il sistema di calcolo delle variazioni di qualsiasi entità in più o in meno, che dovessero verificarsi su detti costi durante il periodo dell'esecuzione della vendita, verrà effettuato in base alle clausole di variabilità prezzi vigenti per apparecchi di illuminazione pubblicato dall'ANIE.

4. MODALITA' DI PAGAMENTO
Si riconoscono solo i pagamento fatti direttamente al nostro domicilio o a persone da noi autorizzate.

5. RISERVA DI PROPRIETA'
La ditta Venditrice conserva la proprietà sui materiali fino a totale pagamento di essi, ma i rischi sono assunti dal compratore sin dalla consegna. Qualunque atto del Committente che, salvo esplicito consenso scritto della Ditta venditrice, involga pregiudizio al diritto della Ditta Venditrice alla rivendita del materiale, sarà sottoposto alle sanzioni di legge.

6. CONSEGNA
Il termine di consegna indicato non impegna la Ditta Venditrice, la quale non è tenuta a corrispondere indennizzi di sorta per eventuali danni diretti ed indiretti dovuti a ritardi di consegna o ad interruzione od a risoluzione parziale o totale della fornitura. Il termine di consegna decorre dalla data della conferma d'ordine e in ogni caso non ha inizio prima del ricevimento della rata di pagamento all'ordine quando essa sia stata concordata. Esso si intende di diritto adeguatamente prorogato se i pagamenti non vengono effettuati puntualmente, se il Committente manca di fornire in tempo utile quanto stabilito nel contratto o se comunque insorgano cause indipendenti dalla Ditta Venditrice, ivi compresi eventuali ritardi di subfornitori.

7. RESO MERCE
La merce può essere resa esclusivamente previa autorizzazione della Ditta Venditrice e con un deprezzamento minimo del 30%

8. TRASPORTO
La merce viaggia rischio e pericolo del Committente comprese le eventuali rotture anche se spedita in porto franco. Trascorsi 8 giorni dal ricevimento non si accettano reclami. Gli ordini saranno evasi secondo la disponibilità e le spedizioni potranno essere fatte anche parzialmente.

9. DATI TECNICI
I materiali forniti, salvo diverse particolari prescrizioni da concordarsi per iscritto, corrispondono alle vigenti norme del CEI – Comitato Elettrotecnico Italiano, ove queste siano applicabili. La ditta Venditrice si riserva di apportare in qualunque momento ai propri prodotti quelle modifiche che ritenesse tecnicamente convenienti. I disegni dalle Ditta Venditrice sono di sua proprietà e non possono dal Committente essere consegnati a terzi ne prodotti senza autorizzazione scritta.

10. GARANZIA
Ideallux garantisce i suoi prodotti per 24 mesi dalla data di fabbricazione indicata sul prodotto. La garanzia copre tutti i difetti di fabbricazione siano essi di natura meccanica o elettronica. Non sono inclusi in garanzia tutti i danni causati dalla movimentazione e/o utilizzo errato e non conforme a quanto riportato sulle istruzioni d'uso. La garanzia decade nel caso in cui i prodotti vengano manomessi e/o modificati.
Il prodotto difettoso per cui è richiesto l'intervento in garanzia, può essere riparato o sostituito con un articolo complementare sia nuovo che ricondizionato ad insindacabile giudizio di Ideallux. I prodotti che riportano il marchio "5 years warranty" sono coperti da 5 anni di garanzia considerando 14h/giorno per 365 giorni solari annuali, nel rispetto del lifetime indicato sulla scheda prodotto. I reclami per interventi in garanzia entro i 5 anni dalla data di fabbricazione (ad esclusione di quelli ricevuti entro i termini legislativi sopra indicati) saranno soggetti ad approvazione di Ideallux. Guasti che rientrano nella difettosità fisiologica dichiarata e comunque entro il 5% del totale degli articoli installati non sono coperti dalla garanzia 5 anni.Termini e condizioni generali di garanzia sono disponibili e possono essere richiesti presso la sede Ideallux.

11. CONTROVERSIE
I contratti, anche se stipulati con cittadini esteri o per materiali forniti all'estero, sono regolati dalla vigente legislatura italiana. Foro competente è soltanto quello avente giurisdizione nella sede legale della Ditta Venditrice anche in deroga agli art. 32 e seguenti del Codice di Procedura Civile, esclusa per il Committente la possibilità di adire l'Autorità Giudiziaria di altro luogo anche in via di garanzia o di connessione di causa, ma salva la facoltà alla Ditta Venditrice di esperire, in qualità di attrice, un'azione nel luogo di residenza, in Italia o all'estero, del Committente. Le eventuali contestazioni non dispensano il Committente dall'osservare le condizioni di pagamento pattuite e non implicano alcun prolungamento dei termini convenuti. Le spese di contratto, la sua registrazione e l'eventuale trascrizione sono a carico del Committente.

1. INTRODUCTION
The supplies include only what is express specified in the order acceptance confirmation of the Vending Company and are governed by these general conditions, save for provisions resulting from an explicit written agreement. Any changes or notifications during the supply do not constitute the invalidation of the contract. The agree delivery terms are merely indicative and are not binding. The execution of the supply may be suspend at any time due to changes to the financial conditions of the Buyer in accordance with the Art. 1461 of the Italian Civil Code.

2. PRICES
The prices are Ex-works of the Vending Company and do not include services at charges that have not been mentioned. The packages are include in price. The package cannot be return, save for a different written agreement.

3. CHANGES IN PRICES
The prices shown in the contract were calculate based on the costs of the materials and of the labor on the date of the contract based on the related ANIE tables. The calculation system of any kind of changes, whether more or less, that may arise to said costs during the period of execution of the sale will be carried out based on the clauses of the changes of prices in force for lighting equipment published by ANIE.

4. PAYMENT
We recognize as valid payment only the ones made directly to our address or to our authorized people.

5. RETENTION OF TITLE
The Vending Company keeps the ownership of materials until paid in full, but the risks are assume by the Buyer upon delivery. Any action of the Buyer, that results in prejudice to the right of the Vending Company to resell the material, will be subjected to legal sanctions, save for the explicit written consent of the Vending Company.

6. DELIVERY
The delivery period shows does not bind the Vending Company, which is not bound to pay indemnities arising for any direct or indirect damage due to delivery delays, downtime or the partial or total return of the supply. The delivery period is effective from the date of the order confirmation and in any case does not begin prior to having receiving the payment instalment for the agreed amount. This term is adequately extend by right if the payments are not made punctually, if the Buyer fails to supply what is set out in the contract in useful time or if causes nonetheless arise regardless of the Vending Company, therein including any delays of sub-contractors.

7. RETURN OF GOODS
The goods may only be return upon the authorization of the Vending Company and with a depreciation of 30%.

8. TRANSPORT
The goods travel at Customer's risks and danger, even if in case of damage in fall of delivery terms Free destination.

9. TECHNICAL DATA
Save for special prescriptions to be agree in writing, the materials supplied correspond to the standards in force of the CEI (Italian Electrical and Technical Council), where applicable. The Vending Company reserves the right to change its products at any time where deemed technically convenient. The designs of the Vending Company are its own property and may not be given by the Buyer to third parties without written authorization.

10. WARRANTY
IDEALLUX guarantees its products for 24 months from the date of production indicated on the item. The warranty covers all manufacturing defects whether they are of a mechanical or electronic nature. All damage caused by handling and / or incorrect use, or use not in accordance with the instructions indicated in the operating instructions are not covered by this warranty. The warranty will expire if the products are tampered with and/or modified. The defective product requiring warranty intervention can be repaired or replaced with a similar article both new and reconditioned at the discretion of Ideallux. The products with mark "5 years warranty" are covered by 5 years warranty considering 14 h/day for 365 solar annual days, respecting the lifetime indicated in the product data sheet. Claims for warranty work within 5 years from the date of manufacture (except those received within the above mentioned legislative terms) will be subject to Ideallux approval.
Faults that fall within the declared physiological defect and in any case within 5% of the total installed items will not be covered by the 5 yeas warranty. Warranty general terms and conditions are available and can be requested at Ideallux offices.

11. DISPUTES
Even if stipulated with foreign citizens or for materials supplied abroad, the contracts are govern by the Italian legislation in force. The only competent court is the one having jurisdiction in the registered office of the Vending Company, also in provision of Art. 32 and ff. of the Italian Code of Civil Procedure, apart from the Buyer's possibility of applying to the Judicial Authority of another place also as a guarantee or related cause, but save for the right of the Vending Company to carry out an action in the place of residence of the Buyer in Italy or abroad as the plaintiff. Any disputes do not waiver the Buyer from observing the agreed payment conditions and do not imply any extension of the agreed terms. The costs of the contract, its registration and transcription are at the expense of the Buyer.

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Purplecloud design | William Cardani

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Ufficio tecnico | Ideallux®

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COLOMBO

GRUPPO RAINA

GRUPPO RAINA

L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

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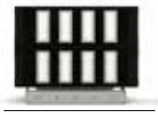
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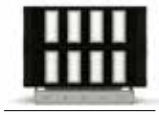
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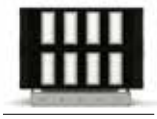
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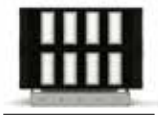
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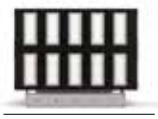
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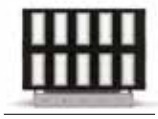
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A woman is the full circle. Within her is the power to create, nurture and transform.
(Diane Mariechild)



Everyone knew it was impossible until a fool who didn't know came along and did it.
(Albert Einstein)



Scientists discover the world that exists; engineers create the world that never was.
(Theodore von Kármán)

WHO WE ARE

GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.

GRUPPO RAINA
L'unione fa la luce.

IDEALLUX® Lookup COLOMBO

IT
CHI SIAMO
Il GRUPPO RAINA è il brand che raggruppa sotto lo stesso nome i marchi: IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. COLOMBO marchio specifico per gli apparecchi stradali, arredo urbano e da esterno. LOOKUP® con la sua nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
QUI SOMMES-NOUS
GRUPPO RAINA est le brand qui rassemble sous le même nom les marques IDEALLUX® appareilles pour l'industrie et le tertiaire, COLOMBO gamme routier et d'extérieur et LOOKUP® appareilles décoratifs.

ES
QUIEN SOMOS
GRUPPO RAINA es la marca que reúne bajo el mismo nombre a las marcas IDEALLUX® luminarias para la industria y servicios, **COLOMBO** luminarias viales y de exterior y **LOOKUP** luminarias decorativas.

DE
WER WIR SIND
GRUPPO RAINA ist das Brandmal, das unter der gleichen Name die Marke gruppiert: IDEALLUX® Historische Produktion, spezialisiert auf den Bau und Verkauf von Leuchten für den Industrie- und Dienstleistungssektor. **COLOMBO** spezifische Marke für Straßen- und Outdoor-Leuchten. **LOOKUP®** neue und breite Linie von dekorativen und architektonischen Leuchten.

RU
O HAC
GRUPPO RAINA является брендом, включающим в себя следующие марки: IDEALLUX® является знаменитым производством, специализирующемся на изготовлении и продаже осветительных приборов, предназначенных для промышленного сектора и сферы услуг. **COLOMBO** – это марка, разрабатывающая уличные осветительные приборы и уличное оборудование. **LOOKUP®** представляет собой новую широкую гамму декоративных и архитектурных осветительных приборов.

COMPANY HISTORY

1987 › IDEALLUX® was founded in 1987 by the will of Claudio Raina. Born as an artisan company producing lighting equipment, to become in a few years one of the most important producers in the lighting sector.

2011 › In 2011 the transition from traditional sources takes place, while LED technology is being developed. IDEALLUX® launches a catalogue exclusively dedicated to LED lighting fixtures, alongside the well-established fluorescence product catalogue.

2017 › Marked the milestone of 30 years of activity. The Fuorisalone 2017 - Via Tortona - Milan was the perfect location to celebrate this important stage, presenting the IDEALLUX® products with a new look.

2018 › On the occasion of Light + Building in Frankfurt, the most prestigious lighting fair on the international scene, IDEALLUX® presents the new Gruppo Raina to the lighting world. Gruppo Raina is the brand that brings together the IDEALLUX®, Lookup and Colombo brands under the same name.

GRUPPO RAINA
L'unione fa la luce.

IT
LA STORIA
IDEALLUX® viene fondata nel 1987 per volontà di Claudio Raina. Nasce come azienda artigiana di produzione di apparecchi di illuminazione, per divenire in pochi anni un'importante realtà industriale del settore dell'illuminazione. Nel 2011 avviene il passaggio dalle fonti tradizionali alle nuove tecnologie LED. IDEALLUX® lancia un catalogo dedicato esclusivamente ad apparecchi di illuminazione LED, affiancandolo all'ormai consolidato catalogo di prodotti fluorescenza. Il 2017 ha segnato il traguardo dei 30 ANNI di attività. Il Fuorisalone 2017 - Via Tortona - Milano è stata la location perfetta per festeggiare questa importantissima tappa, presentando i prodotti IDEALLUX® con una nuova veste. Nel 2018, in occasione di Light+Building, la più prestigiosa fiera dell'illuminazione nel panorama internazionale, IDEALLUX® presenta al mondo del lighting il nuovo Gruppo Raina. Gruppo Raina è il brand che raggruppa sotto lo stesso nome i marchi IDEALLUX®, Lookup e Colombo.

FR
HISTOIRE
IDEALLUX® est fondé en 1987 pour volonté de Claudio Raina. Naît comme usine artisanale de production des appareilles d'éclairage, pour devenir après quelques années une importante réalité industrielle du secteur d'éclairage. En 2011 arrive le passage des sources traditionnelles aux nouvelles technologies LED. IDEALLUX® lance un catalogue exclusivement dédié aux appareilles d'éclairage LED, a couté du consolidé catalogue produits fluorescence. Le 2017 a marqué la ligne d'arrivée des 30 ANS d'activité. Le Fuorisalone 2017 près de Via Tortona en Milan a été en endroit parfaite pour célébrer cette importante étape en présentant les produits IDEALLUX® avec un nouveau vêtement. En 2018, pendant la foire Light+Building, la plus prestigieuse concernant l'éclairage dans le panorama international, IDEALLUX® présente au monde du Lightning le nouveau Gruppo Raina. Groupe Raina est le brand qui groupe sous le même nom les marques IDEALLUX®, Lookup et Colombo.

ES
HISTORIA
IDEALLUX® fue fundada en 1987 por voluntad de Claudio Raina. Nace como una empresa artesanal que produce aparatos de iluminación, para convertirse en pocos años en una realidad industrial importante en el sector de la iluminación. En 2011 se lleva a cabo la transición de las fuentes tradicionales de iluminación a las nuevas tecnologías LED. IDEALLUX® lanza un catálogo dedicado exclusivamente a los aparatos de iluminación LED, uniendolo con el ya bien consolidado catálogo de productos de fluorescencia. 2017 marcó el hito de 30 años de actividad. El Fuorisalone 2017 - Via Tortona - Milán fue el lugar perfecto para celebrar esta importantisima etapa, presentando los productos IDEALLUX® con un nuevo look. En 2018, con motivo de Light + Building, la feria de iluminación más prestigiosa de la escena internacional, IDEALLUX® presenta el nuevo Gruppo Rainaal mundo de la iluminación. Gruppo Raina es la marca que agrupa a las marcas IDEALLUX®, Lookup y Colombo bajo el mismo nombre.

DE
DIE GESCHICHTE
Geboren als handwerkliches Unternehmen, das Beleuchtungsgeräte herstellt, um in wenigen Jahren eine wichtige industrielle Realität in der Beleuchtungsbranche zu werden. Im Jahr 2011 findet der Übergang von traditionellen Quellen zu neuen LED-Technologien statt. Neben dem bekannten Fluoreszenz-Produktkatalog führt IDEALLUX® einen Katalog ein, der sich ausschließlich mit LED-Beleuchtungsgeräten befasst.. 2017 war der Meilenstein von 30 Jahren Aktivität. Die Fuorisalone 2017 - Via Tortona - Mailand war der perfekte Ort, um diese wichtige Etappe zu feiern und die IDEALLUX® Produkte mit einem neuen Look zu präsentieren. Im Jahr 2018 präsentiert IDEALLUX® anlässlich der Light + Building, der prestigeträchtigsten Lichtmesse der internationalen Szene, die neue Raina Group der Lichtwelt. Gruppo Raina ist die Marke, die die Marken IDEALLUX®, Lookup und Colombo unter demselben Namen vereint.

RU
ИСТОРИЯ
Идеаллюкс была основана в 1987 году Клаудио Раина. Она изначально являлась ремесленной мастерской по производству осветительного оборудования, которая вскоре переросла в важнейшую промышленную компанию в осветительной отрасли. В 2011 году произошёл переход от традиционных источников к новых технологиям СИД. Идеаллюкс выпускает каталог, посвящённый исключительно осветительному оборудованию СИД, который сосуществует с уже устоявшимся каталогом флуоресцентных продуктов. В 2017 году компания отметила 30 ЛЕТ успешной работы. Fuorisalone 2017 – Улица Tortona – Милан было идеальным местом для празднования этого важнейшего этапа и представления продуктов Идеаллюкс в новом обличье. В 2018 году по случаю Light+Building, самой престижной осветительной выставки на мировой арене, Идеаллюкс представила новую Группу Raina. Группа Raina является брендом, который объединяет под одним именем марки IDEALLUX®, Lookup и Colombo.

MISSION

The group's mission is the design and production of lighting systems characterized from high technology and very good performance, totally made at the Cilavegna plant in the Province of Pavia and certified 100% Made in Italy. The Gruppo Raina obtained the Certification ISO 9001: 2008 and the 100% Made in Italy Certification issued by the Institute for the Protection of Italian Manufacturers. The numbers of the group can explain the capacity of it: 12.000 square meters of production plant, 7.000 sqm of warehouse, 100 resources employed and more than 3.800 active customers.



IT

MISSION

Il gruppo ha come mission la progettazione e la produzione di sistemi di illuminazione, caratterizzati da un'elevata tecnologia e da un ottimo rendimento, totalmente realizzati nello stabilimento di Cilavegna, in Provincia di Pavia e certificati 100% Made in Italy. Gruppo Raina vanta tra le certificazioni ottenute la certificazione ISO 9001:2008 e la certificazione 100% Made in Italy rilasciata dall'Istituto Per la Tutela dei Produttori Italiani. I numeri del gruppo riassumono le capacità dello stesso, con i suoi 12.000 mq di stabilimento produttivo, 7.000 mq di magazzino, 100 risorse impiegate e oltre 3.800 clienti attivi.

FR

MISSION

Le groupe a comme mission le projet et la production de systèmes d'éclairage, réalisé dans l'usine de Cilavegna, dans la province de Pavie et certification 100% made en Italy. Certification ISO 9001:2008 Certification 100% Made en Italy relâché par l'institut pour la Tutelle des Producteur Italiens. LE NOMBRES: 12.000 mq d'usine productive. 7.000 mq de magasin.100 ressources employées.3.800 clients actifs.

ES

MISSION

El grupo tiene como misión el diseño y producción de sistemas de iluminación, fabricados en la p certificaciones. la certificación iso 9001: 2008 certificación 100% made in italy emitida por el instituto para la protección de fabricantes italianos lanta de cilavegna, en la provincia de pavia y certificados 100% made in italy. los numeros: 12.000 mq de planta de producción, 7.000 mq de almacén, 100 recursos utilizados, 3.800 clientes activos.

DE

MISSION

Die Gruppe hat sich zum Ziel gesetzt, Beleuchtungssysteme zu entwerfen und zu produzieren, die sich durch Hochtechnologie und hervorragende Leistung auszeichnen. Sie werden vollständig im Werk von Cilavegna in der Provinz Pavia hergestellt und sind zu 100% Made in Italy zertifiziert. Die Gruppo Raina hat unter den Zertifizierungen die ISO 9001: 2008-Zertifizierung und die 100% Made in Italy-Zertifizierung des Instituts zum Schutz italienischer Hersteller erhalten. Die Zahlen der Gruppe fassen die Kapazität derselben mit 12.000 Quadratmetern Produktionsanlage, 7.000 Quadratmetern Lagerhalle, 100 Mitarbeitern und mehr als 3.800 aktiven Kunden zusammen.

RU

МИССИЯ

Миссия группы заключается в проектировании и производстве осветительных систем, характеризующихся высокими технологиями и отличной эффективностью. Они производятся исключительно на заводе в городе Чилавенья в провинции Павия и имеют сертификаты 100% Сделано в Италии (100% Made in Italy). Группа Raina гордится наличием сертификата ISO 9001:2008 и сертификата 100% Сделано в Италии (100% Made in Italy), который был выдан Институтом по защите прав итальянских производителей. Приведённые ниже цифры показывают возможности группы: 12.000 м2 производственного предприятия, 7.000 м2 складских помещений, 100 человек рабочего персонала и более 3.800 активных клиентов.

QUALITY

With a view to customer satisfaction and service optimization, IDEALLUX® has put in place quality control processes with the aim of limiting defectiveness, which has been less than 1% (ISO statistical data of the last three years).



IT
QUALITÀ
Nell'ottica della soddisfazione del cliente e dell'ottimizzazione del servizio, IDEALLUX® ha messo in atto processi di controllo qualità con l'obiettivo di limitare la difettosità, che si è attestata ad una percentuale inferiore all'1% (dato statistico ISO degli ultimi tre anni).

FR
QUALITÉ
Dans l'optique de la satisfaction du client et de l'optimisation du service, IDEALLUX® a mis en cours un procès de contrôle qualité avec l'objectif de limiter la défectuosité qui sont attestés à une pourcentage inférieure au 1 % (info statistique ISO des derniers trois ans).

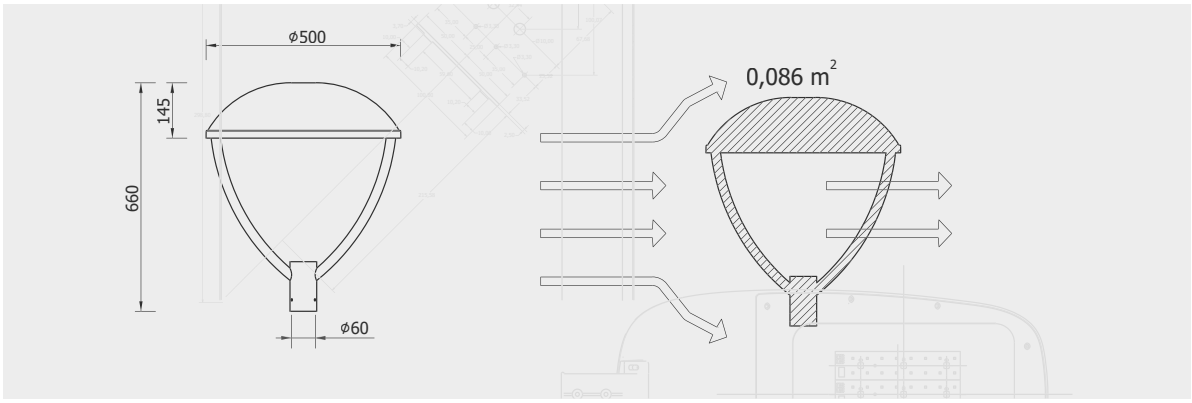
ES
CALIDAD
Con muras a la satisfacción del cliente y la optimización del servicio, IDEALLUX® ha puesto en marcha procesos de control de calidad con el objetivo de limitar la defectuosidad, que ha alcanzado un porcentaje inferior al 1% (datos estadísticos ISO de los últimos tres años).

DE
QUALITÄT
Im Hinblick auf Kundenzufriedenheit und Serviceoptimierung hat IDEALLUX® Qualitätskontrollprozesse eingeführt, um den Fehler zu begrenzen, der einen Prozentsatz von weniger als 1% erreicht hat (ISO-Statistikdaten der letzten drei Jahre).

RU
КАЧЕСТВО
С учётом удовлетворения запросов клиентов и оптимизации обслуживания, Идеаллюкс внедрила процесс управления качеством с целью уменьшения дефектов производства, которые не превышают 1% (данные статистики ISO за последнии три года).

RESEARCH & DEVELOPMENT

The data acquisition, market's needs and demands are essential for the proper focus of the idea and development of the project. The wide technical IDEALLUX® structure with its many functions and skills, guarantees the optimization of product design process: starting from the industrial cost evaluation to the overall quality of the product. All the different steps of the design project are managed within the company. Through use of advanced software, the highly qualified IDEALLUX® staff develops, analyzes and designs the product in all its parts. This design process ends with the production of a prototype, tested in the internal photometric laboratory. Thanks to its ability to adapt the product to customer requirements, IDEALLUX® is specialized in the creation of "CUSTOM MADE PRODUCTS".



IT

RICERCA E SVILUPPO

In un progetto la fase di acquisizione dei dati, delle necessità e dei gusti del mercato diventa essenziale per la corretta messa a fuoco dell'intero processo ideativo. La struttura tecnica di IDEALLUX®, vasta e integrata nelle sue funzioni e competenze, garantisce l'ottimizzazione del processo progettuale: dalla valutazione del costo industriale alla qualità globale del prodotto. Tutti i processi inerenti alla progettazione vengono gestiti all'interno dell'azienda. La progettazione viene realizzata da personale altamente qualificato che, attraverso l'utilizzo di software avanzati, sviluppa, analizza e progetta il prodotto in tutte le sue parti. La realizzazione di un prototipo, testato nel laboratorio fotometrico, è la parte conclusiva di questo processo. IDEALLUX® è specializzata nella creazione di apparecchi CUSTOM proprio grazie alla capacità di adattare il prodotto alle esigenze del cliente.

FR

RECHERCHE ET DÉVELOPPEMENT

Dans un projet, il est essentiel d'acquérir les données, les besoins et les goûts du marché pour pouvoir correctement mettre en application le processus de conception dans toute son intégralité. La structure technique de IDEALLUX®, vaste et intégrée dans ses fonctions et compétences, garantit l'optimisation du
processus d'élaboration : de l'évaluation du coût industriel à la qualité globale du produit. La conception du projet est réalisée par un personnel hautement qualifié qui, grâce à l'utilisation de logiciels d'avant-garde, développe, analyse et réalise entièrement le produit. La réalisation d'un prototype, testé en laboratoire photométrique, est la dernière phase de ce processus. IDEALLUX® est spécialisée dans la création d'appareil CUSTOM grâce essentiellement à ses capacités d'adapter le produit aux exigences du client.

ES

INVESTIGACIÓN Y DESARROLLO

En un proyecto la fase de adquisición de datos, de necesidades y de gustos del mercado se vuelve esencial para el correcto enfoque de todo el proceso creativo. La estructura técnica de IDEALLUX®, vasta e integrada en sus funciones y competencias, garantiza la optimización del proceso de diseño: desde la evaluación del coste industrial a la calidad global del producto. Todos los procesos inherentes al diseño se gestionan en el interior de la empresa. Toda la fase de diseño es realizada por personal altamente cualificado que, a mediante el uso de softwares avanzados, desarrolla, analiza y diseña el producto en su total concepción. La realización del prototipo, probado en el laboratorio fotométrico, es la parte final de este proceso. IDEALLUX® se especializa en la creación de luminarias personalizadas justamente gracias a la capacidad de adaptar el producto a las exigencias del cliente.

DE

FORSCHUNG UND ENTWICKLUNG

Ausschlaggebende Faktoren für ein erfolgreiches Projekt sind die Bestimmung eines vollständigen Anforderungsprofils des Marktes hinsichtlich dessen Wünsche und Erwartungen, des aktuellen schmacks, der geforderten technischen Notwendigkeiten sowie die entsprechende korrekte Analyse der akquirierten Daten. Die Betriebsorganisation von IDEALLUX® vereint alle dazu notwendigen Funktionen und Kompetenzen, von der Kostenkalkulation bis zur Sicherstellung eines qualitativ hochwertigen Endprodukts, so daß unter Ausnutzung aller möglichen Synergien der verschiedenen Abteilungen das Konzept "alles aus einer Hand" in ein harmonisches Gesamtergebnis umgesetzt wird. Die Konstruktion wird von hochqualifiziertem Personal durchgeführt, das, durch den Einsatz von fortschrittlicher Software, das Produkt in alle seinen Teilen entwickelt, analysiert und entwirft. Die Realisierung eines Prototyps, das im photometrischen Labor getestet wird, ist die letzte Teil dieses Prozesses. IDEALLUX® hat sich auf die Erstellung von CUSTOM - Geräten spezialisiert, danke an Ihrer Fähigkeit, das Produkt an die Kundenbedürfnisse anzupassen.

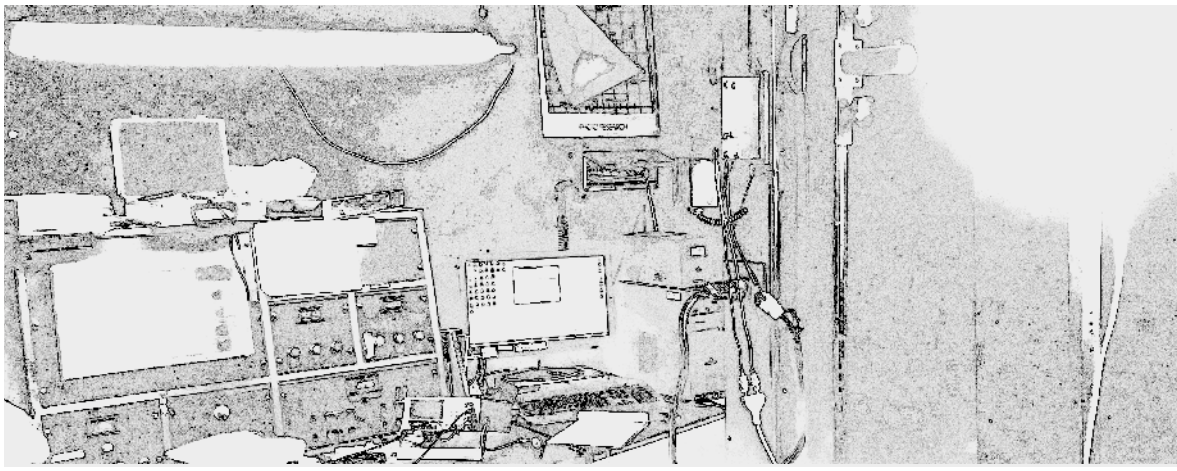
RU

ИССЛЕДОВАНИЯ И РАЗРАБОТКИ

Сбор данных, потребности и требования рынка имеют важное значение для правильной направленности идеи и развития проекта. Широкая техническая структура IDEALLUX® с ее многочисленными функциями и навыками гарантирует оптимизацию процесса проектирования продукта: от оценки производственных затрат до общего качества продукта. Все различные этапы дизайн-проекта управляются внутри компании. Благодаря использованию передового программного обеспечения высококвалифицированный персонал IDEALLUX® разрабатывает, анализирует и проектирует продукт во всех его частях. Этот процесс проектирования заканчивается производством прототипа, испытанного во внутренней фотометрической лаборатории. Благодаря своей способности приспосабливать продукт к требованиям клиента, IDEALLUX® специализируется на создании «ИЗДЕЛИЙ ИЗ ИЗГОТОВЛЕНИЯ».

MEASURES & TEST

During prototyping phase IDEALLUX® carries out all the preventive controls of security, quality and conformity according to sector norms. In according to norm EN60598, IDEALLUX® performs a wide range of tests as the thermal resistance test (realized through the controls of each single component), the IP and IK resistance tests (to analyze how the mechanical structure reacts to external stresses), salt spray (fog) test (to check the resistance of the external surfaces). Thanks to the internal photometric laboratory IDEALLUX® can make many optic tests on the fixture, according to norm UNI EN13032, generate photometric curve and extend its range of products through the optimization of optics and flow recovery devices.



IT

MISURE E PROVE

è nella fase di prototipazione che IDEALLUX® svolge tutti i controlli preventivi sulla sicurezza, qualità, conformità, in relazione alle principali norme di settore. In conformità alla normativa EN 60598 vengono eseguite prove di resistenza termica, attraverso il controllo capillare dei singoli componenti interni, prove di resistenza a IP e IK, attraverso le quali si analizza il comportamento della struttura meccanica alle sollecitazioni esterne, e prove in nebbia salina per verificare la tenuta delle superfici esterne. Grazie al supporto del proprio laboratorio fotometrico, IDEALLUX® può effettuare i più svariati test ottici sugli apparecchi, in conformità alla normativa UNI EN13032, realizzare le curve fotometriche e ampliare la gamma di prodotti attraverso l'ottimizzazione delle ottiche e dei recuperatori di flusso.

FR

MESURES ET TEST

Pendant la phase de réalisation du prototype IDEALLUX® réalise tous les contrôles préalables en termes de sécurité, qualité, conformité, selon les principales normes du secteur. Conformément aux normes EN 60598 des tests de résistance thermique sont effectués par le biais du contrôle minutieux de chaque composant interne, test de résistance à IP et IK, au travers desquels on analyse le comportement de la structure mécanique contre les aggressions climatiques de toute sorte, et des essais en brouillard salin pour vérifier la tenue des superficies externes. Grâce au support de son propre laboratoire photométrique, IDEALLUX® peut effectuer toutes sortes de test optiques sur les appareils, conformément aux normes UNI EN13032, réaliser des courbes photométriques et élargir la gamme de produits à travers l'optimisation des optiques et des récupérateurs de flux.

ES

MEDIDAS Y PRUEBAS

Es en la fase de creación del prototipo en la que IDEALLUX® lleva a cabo todos los controles preventivos de seguridad, calidad y conformidad, en relación a las principales normas del sector. De acuerdo con la normativa EN 60598 se ejecutan pruebas de resistencia térmica, mediante el control riguroso de cada uno de los componentes internos, pruebas de resistencia a IP e IK, a través de las cuales se analiza el comportamiento de la estructura mecánica a las tensiones externas, pruebas en niebla salina que verifican la resistencia de las superficies externas. Gracias al apoyo del propio laboratorio fotométrico, IDEALLUX® puede efectuar las más variadas pruebas ópticas en las luminarias, de acuerdo con las normativa UNE EN13032, realizar las curvas fotométricas y ampliar la gama de productos a través de la optimización de las ópticas y de los recuperadores de flujo.

DE

MESSUNGEN UND VERSUCHE

Bereits bei der Projektierung als auch im Prototypstadium kontrolliert und optimiert IDEALLUX alle Aspekte hinsichtlich der Qualität, Sicherheit und Konformität gemäß der herrschenden Normen. Der Norm EN60598 folgend, werden die thermische Widerstandsfähigkeit der einzelnen Bestandteile als auch des ganzen Produkts geprüft. Es folgen die Tests zu den Schutzarten IP und dem Schlagschutz IK, die die mechanischen Eigenschaften des Artikels auf die Umgebungsbedingungen kontrollieren, sowie die Prüfung im Salznebel und weiteren von den Normen vorgesehenen Eigenschaften. Dank der Unterstützung seines photometrischen Labors, der Norm EN60598 folgend kann IDEALLUX® unterschiedlichste optische Tests an den Geräten durchführen, die photometrischen Kurven und erweitern die Produktpalette durch die Optimierung der Optik und Strömungsrekuperatoren realisieren.

RU

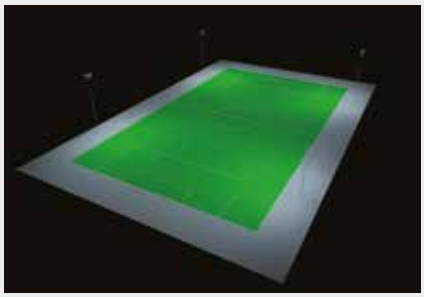
МЕРЫ И ТЕСТ

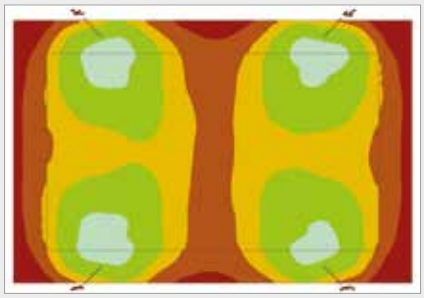
На этапе создания прототипа IDEALLUX® проводит все профилактические проверки безопасности, качества и соответствия в соответствии с отраслевыми нормами. В соответствии с нормой EN60598, IDEALLUX® выполняет широкий спектр испытаний, таких как испытание на тепловое сопротивление (реализуемое посредством контроля каждого отдельного компонента), испытания на сопротивление IP и IK (чтобы проанализировать, как механическая структура реагирует на внешние напряжения), соль испытание на распыление (туман) (для проверки сопротивления внешних поверхностей). Благодаря внутренней фотометрической лаборатории IDEALLUX® может проводить множество оптических испытаний прибора, в соответствии с нормой UNI EN13032, генерировать фотометрическую кривую и расширять ассортимент своей продукции за счет оптимизации оптики и устройств восстановления потока.

CUSTOMER SERVICE

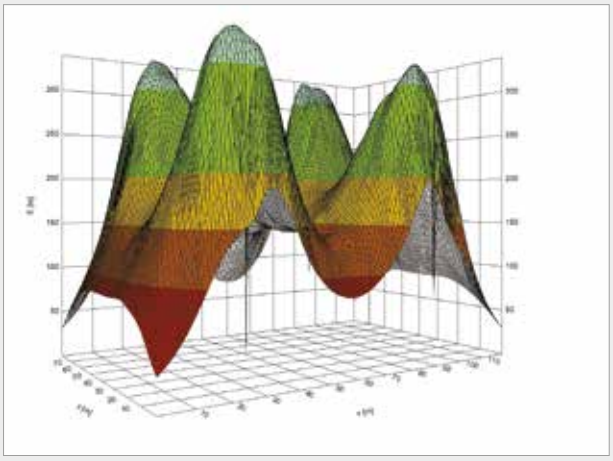
IDEALLUX® provides its customers and designers the lighting calculation service assistance. Using advance software it is possible:

- To examine the photometric characteristics of fixture for a proper application.
- To elaborate and calculate detailed lighting levels and light uniformity on work surface.
- In lighting calculations there are average lighting values (Isolux curves).
- The photometric curves are available on website www.ideallux.it.





Light simulation



IT

ASSISTENZA CLIENTI

IDEALLUX® fornisce ai suoi clienti ed ai progettisti, il servizio di assistenza alla progettazione illuminotecnica. Mediante l'utilizzo di software avanzati è possibile:

- consultare le caratteristiche fotometriche dell'apparecchio per un'idonea applicazione
- elaborare e calcolare nel dettaglio il livello di illuminamento e di uniformità sui piani di lavoro.
- Negli elaborati ottenuti, sono presenti valori di illuminamento medio (curve isolux).
- Le fotometrie sono disponibili sul sito www.ideallux.it

FR

ASSISTANCE ET CONTRÔLES TECHNIQUES D'ÉCLAIRAGE

IDEALLUX® fournit à ses clients et aux concepteurs le service d'assistance au projet d'éclairage. Grâce à l'utilisation de logiciels à l'avant-garde il est possible de :

- consulter les caractéristiques photométriques de l'appareil pour une application appropriée
- élaborer et calculer en détail le niveau d'éclairement et d'uniformité sur les plans de travail.
- de consulter les valeurs d'éclairement moyenne (courbes isolux) figurant dans les textes élaborés
- de visionner les photométries disponibles sur le site www.ideallux.it.

ES

ASISTENCIA Y CONTROLES LUMINOTÉCNICOS

IDEALLUX® provee a sus clientes y a sus diseñadores, el servicio de asistencia en el diseño luminotécnico. Mediante el uso de un software avanzado es posible:

- consultar las características fotométricas de las luminarias para un uso óptimo.
- elaborar y calcular en detalle el nivel de iluminación y de uniformidad de los esquemas de trabajo.
- en los resultados obtenidos, se hallan presentes los valores de iluminación medios (curvas isolux).
- las fotometrías están disponibles en el sitio www.ideallux.it.

DE

KUNDENBETREUUNG UND LICHTTECHNISCHE KONTROLLE

IDEALLUX® bietet ihren Kunden und Planern einen Service für eine lichttechnische Kontrolle des eigenen Projekts.
Durch Mithilfe von modernster Software ist es möglich:

- das Nachschlagen der photometrischen Eigenschaften eines bestimmten Artikels zu konsultieren
- die detaillierte Berechnung und Auslegung der Lichtausbeute und der gleichmäßigen Lichtverteilung auf den betroffenen Ebenen
- die tabellarische Aufstellung der errechneten Lichtkennwerte mit mittlerer Beleuchtungsstärke, Isolux-Kurven pro Raum usw.
- die Photometrie sind auf die Web-site www.grupporaina.it verfügbar

RU

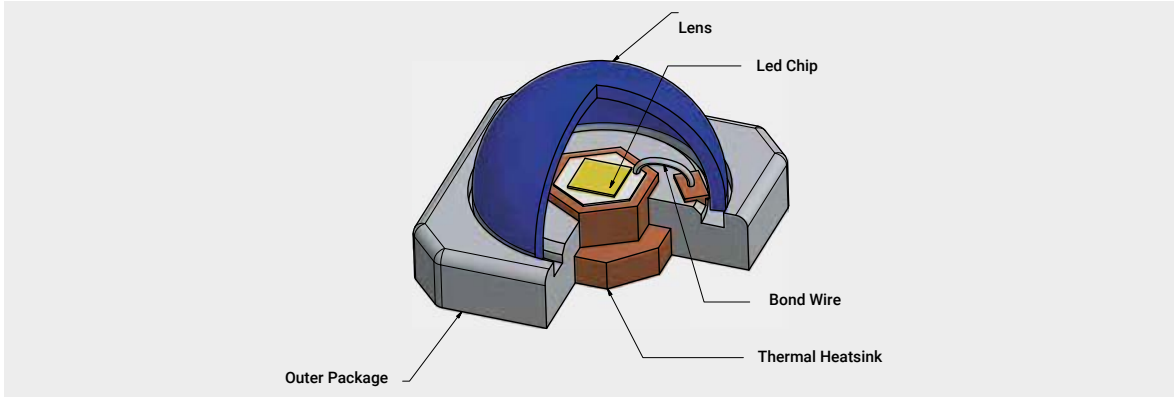
ОБСЛУЖИВАНИЕ КЛИЕНТОВ

IDEALLUX® предоставляет своим клиентам и дизайнерам помощь в проектировании освещения. Благодаря использованию современного программного обеспечения возможно:

- обратитесь к фотометрическим характеристикам прибора для соответствующего применения
- разработать и детально рассчитать уровень освещенности и равномерности рабочих планов.
- В полученных работах представлены средние значения освещенности (кривые изолюкс).
- Фотометрия доступна на сайте www.ideallux.it

LED: WHAT AND HOW IT WORKS

LED is the acronym for LIGHT EMISSION DIODE. This is an optoelectronic device, which uses the optical properties of some semiconductor materials to emit light when electrical current passed through them. The LEDs for lighting are realized starting from one diode, which is able to emit blue light, onto which a fluorescent layer is applied (normally phosphorous) which converts the light source into white light. The combination of different semiconductor materials of the basic diode and the type of the applied fluorescent material creates LED with colour temperature from 2700 K to 6500 K and high colour rendering (up to CRI>90). Development and research applied to LEDs have enabled this technology to be the real alternative to traditional light sources in both light quantity and quality.



IT

LED: COS'È E COME FUNZIONA

La sigla LED è l'acronimo inglese di Light Emitting Diode, diodo a emissione luminosa.Si tratta di un dispositivo optoelettronico che sfrutta le proprietà ottiche di alcuni materiali semiconduttori di emettere luce blu quando attraversati da una corrente elettrica. I LED utilizzati nell'illuminazione sono realizzati partendo da un diodo in grado di emettere luce blu su cui è applicato uno strato fluorescente (normalmente fosforo) che converte la fonte luminosa in luce bianca.La combinazione di differenti materiali semiconduttori del diodo di base e il tipo di materiale fluorescente applicato, consentono di creare LED con temperatura colore da 2700K a 6500K ed elevata resa cromatica (fino a CRI>90). Sviluppo e ricerca applicate ai LED hanno portato questa tecnologia ad essere la reale alternativa alle fonti di illuminazione tradizionali sia per quantità che per qualità della luce.

FR

QU'EST-CE QU'UNE LED ? COMMENT FONCTIONNE UNE LED

XUne LED, acronyme de Light Emitting Diode (diode électroluminescente). Il s'agit d'un dispositif exploitant les propriétés optiques de certains matériaux semi-conducteurs qui émettent de la lumière bleue lorsqu'ils sont traversés par un courant électrique. Les LED utilisées pour l'illumination sont réalisées à partir d'une diode pouvant émettre une lumière bleue sur laquelle une couche fluorescente est appliquée (normalement du phosphore) qui transforme la source lumineuse en une lumière blanche. La combinaison entre différents matériaux semiconducteurs de la diode de base et le type de matériel fluorescent appliqué, permettent de créer des LED ayant une température de couleur de 2700K à 6500K et un rendement chromatique élevé (jusqu'à CRI>90). Le développement et la recherche appliqués aux LED font de cette technologie une alternative réelle aux sources éclairage traditionnelles aussi bien en termes de quantité que de qualité de la lumière.

ES

LED: QUÉ ES Y CÓMO FUNCIONA

XLa sigla LED es el acrónimo inglés de Light Emitting Diode, diodo emisor de luz. Se trata de un dispositivo optoelectrónico que aprovecha las propiedades ópticas de algunos materiales semiconductores que emiten luz azul cuando son atravesados por una corriente eléctrica. Los leds utilizados en la iluminación se realizan a partir de un diodo capaz de emitir luz azul, sobre el cual se aplica una capa fluorescente (normalmente fósforo) que convierte la fuente luminosa en luz blanca. La combinación de los diferentes materiales semiconductores del diodo de base y el tipo de material fluorescente aplicado, permiten crear leds con temperatura de color desde 2700K a 6500K y elevado rendimiento cromático (hasta CRI>90). El desarrollo y las investigaciones aplicadas a los leds llevan a esta tecnología a ser una verdadera alternativa a las fuentes de iluminación tradicionales, tanto en términos de cantidad como de calidad de la luz.

DE

LED: BESCHREIBUNG UND FUNKTION

Der Begriff LED ist eine Abkürzung und bedeutet im englischen "Light Emitting Diode", zu Deutsch Licht emittierende Diode. Das optoelektronische Bauteil nutzt die Eigenschaften bestimmter Halbleitermaterialien, bei Stromdurchfluß Lichtstrahlen auszusenden. Die in der Beleuchtungstechnik üblichen LEDs bauen auf einer Diode auf, die blaues Licht abstrahlt. Auf diese Diode ist eine fluoreszierende Schicht aufgebracht (meist Phosphor), die das ausgehende blaue Licht in weißes Licht umwandelt. Die Kombinationen aus verschiedenen Halbleitermaterialien der Basisdiode sowie der aufgebrachten fluoreszierenden Schicht ermöglicht die Herstellung von LEDs mit unterschiedlichen Farbtemperaturen von 2700 K bis 6500 K und mit besonders hohem Farbwiedergabeindex R (CRI, bis > 90). Die intensive Forschung und Entwicklung im Bereich der LEDs führten dazu, daß diese Technologie heute eine echte Alternative zu den herkömmlichen Leuchtmitteln darstellt und vergleichbare Lichtmengen und Lichtqualität bieten kann.

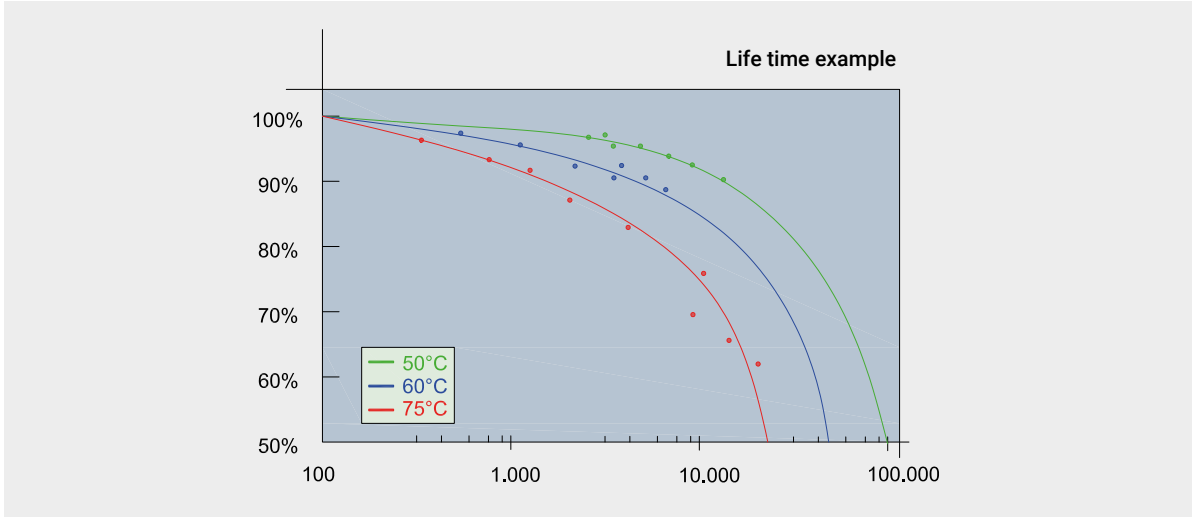
RU

LED: ЧТО ТАКОЕ И КАК ЭТО РАБОТАЕТ

Аббревиатура LED - это английская аббревиатура «Светоизлучающий диод», оптоэлектронное устройство, использующее оптические свойства некоторых полупроводниковых материалов для излучения синего света при пересечении электрическим током. Светодиоды, используемые в освещении, сделаны из диода, способного излучать синий свет, на который нанесен флуоресцентный слой (обычно люминофор), который преобразует источник света в белый свет. Сочетание различных полупроводниковых материалов основного диода и тип применяемого флуоресцентного материала, они позволяют создавать светодиоды с цветовой температурой от 2700K до 6500K и высокой цветопередачей (до CRI> 90). Разработка и исследования светодиодов привели к тому, что эта технология стала реальной альтернативой традиционным источникам освещения с точки зрения количества и качества света.

LED: LIFE TIME

Unlike traditional sources LEDs will not turn off suddenly at their working (or service) end of life, but they will slowly decrease their initial luminous flux until they turn off completely. The words "LIFE TIME" indicates the working life of LEDs considering emitted light (in percentage) up to reaching the number of stated operating hours. This value is indicated with letter "L". The letter "B" indicates the percentage of LEDs which could not guarantee the stated flow. For example: 50.000h L80/B20 indicates that the LEDs installed will have the residual flux equal to 80% after 50.000 working-hours (L80) and this value is guaranteed for 80% of the diodes (B20=20% of the diodes for which the stated working life is not guaranteed).



IT

LED: ASPETTATIVA DI VITA

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

FR

LED: DURÉE DE VIE

Contrairement à ce qui se produit pour les lampes traditionnelles qui peuvent s'arrêter de fonctionner avant la fin de sa durée de vie, avec une LED on assiste à une lente diminution du flux lumineux initial jusqu'à son épuisement complet. L'indication "durée de vie" définit la durée de vie utile de la LED en considérant la lumière émise (en pourcentage) pour atteindre les heures de fonctionnement déclarées. Cette valeur est indiquée par la lettre "L". La lettre "B" indique le pourcentage de LED qui pourraient ne pas garantir le flux déclaré. Par exemple : 50.000h L80/B20 indique que les LED installées auront un flux résiduel égal à 80 % après 50.000 heures de fonctionnement (L80), et que cette donnée est garantie pour 80 % des diodes (B20 = 20 % des diodes pour lesquelles la durée déclarée n'est pas garantie).

ES

LED: EXPECTATIVA DE VIDA

Contrariamente a lo que ocurre con las lámparas tradicionales que tienden a apagarse automáticamente al completar su ciclo de vida útil, en el LED se observa una lenta disminución del flujo luminoso hasta agotarse por completo. Con la indicación "vida útil" se indica por lo tanto la expectativa de vida útil del LED, considerando la luz emitida (en porcentajes) al alcanzar el total de horas de funcionamiento declaradas. Este valor se indica con la letra "L". Con la letra "B" se indica el porcentaje de leds que podrían no garantizar el flujo indicado. Por ejemplo: 50.000h L70/B20 indica que los leds instalados tendrán un flujo residual del 80% después de 50.000 horas de funcionamiento (L70), y que este dato es garantizado para el 80% de los diodos (B20= 20% de diodos en los que no se garantiza la duración indicada).

DE

LED: LEBENSDAUER

Entgegen den herkömmlichen Leuchtmitteln, die an ihrem Ende der Lebensdauer in der Regel unerwartet und schlagartig ausgehen, reduziert sich bei LEDs der abgegebene Lichtstrom nach und nach bis zum Lebensende und führt somit zu einem langsamen Verdunkeln der Lichtquelle. Unter "Lebensdauer" versteht man daher bei LEDs den verwendbaren Zeitraum, an dessen Ende die abgegebene Lichtmenge einen gewissen prozentualen Wert der Anfangslichtmenge erreicht. Dieser Prozentwert wird mit dem Buchstaben "L" bezeichnet. Diesem folgt die Angabe, wieviele der vorhandenen LEDs diesen Wert garantieren müssen. Angegeben wird dies mit dem Buchstaben "B" und dem Anteil der LEDs, die die geforderte Lichtmenge nicht mehr erreichen könnten. Beispiel: 50.000 h L80B20 bedeutet, daß die verbauten LEDs nach 50.000 Betriebsstunden noch einen Lichtstrom von mindestens 80% des Nennstroms aufweisen (L80) und daß dieser Lichtstrom noch von mindestens 80% der vorhandenen LEDs erreicht wird (B20 = für 20% der Dioden wird die genannte Lebensdauer nicht garantiert).

RU

СВЕТОДИОД: ОЖИДАНИЕ ЖИЗНИ

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

LED: LIGHT QUALITY

During production it is not possible to expect the fully LED diodes characteristics and it is necessary to select the diodes once they are produced. LED Binning is way of sorting the chips LED so that all the LEDS from one particular bin look the same and have similar light out. The purchase costs are higher in case of request of LEDs with reduced binning (i.e. purchase LED with similar characteristics). When talking about the quality of light it is important to introduce the concept of color consistency, i.e. to inform the user that two fixtures with the same color temperature (e.g. 3.000K) could generate two different effects on the same surface area in terms of the light color perception. In order to avoid this problem and to measure the differences of color, it is necessary to refer to the system based on MacAdam ellipses. MacAdam ellipses are described as "steps" and they indicate how any color shade circumscribed by the perimeter of the ellipsis compared to a central reference, is indistinguishable to a human eye even if instrumentally it shows differences. In order to optimize the quality and chromatic uniformity of light sources, the LED used by IDEALLUX® are selected to achieve a 3 Step MacAdam precision (3 SDCM - Standard Deviation of Color Matching).



Different LED source lighting

LED: LIGHT QUALITY

IT

LED: QUALITÀ DELLA LUCE

Le caratteristiche dei diodi LED non possono essere completamente previste in fase di realizzazione ma occorre effettuare una selezione dei diodi una volta realizzati. Con Spesso sentiamo parlare di Binning dei LED, è il metodo di ordinamento dei chips LED in modo che i LED selezionati in un particolare gruppo di appartenenza abbiano aspetto e caratteristiche simili. La richiesta di LED aventi un binning ridotto (cioè acquistare LED con le caratteristiche simili) si traduce in costi di approvvigionamento maggiori considerando una selezione più accurata. Parlando di qualità della luce è importante introdurre il concetto di consistenza del colore cioè informare l'utilizzatore che due apparecchi con la stessa temperatura di colore (es. 3.000K) possono generare due effetti diversi sulla stessa superficie in termini di colore percepito della luce. Per ovviare a questo problema e per misurare le differenze di colore si è fatto ricorso al sistema basato sulle ellissi di MacAdam. Le ellissi di MacAdam sono descritte come "step" e definiscono come qualsiasi tonalità di colore circoscritta dal perimetro dell'ellisse rispetto ad un riferimento centrale, non è percepita dall'occhio umano anche se strumentalmente presenta differenze. Al fine di ottimizzare qualità e uniformità cromatica delle fonti luminose, I LED utilizzati nei prodotti IDEALLUX® sono selezionati per ottenere una precisione pari a 3 Step di MacAdam (3 SDCM - Standard Deviation of Color Matching).

FR

LED: QUALITÉ DE LA LUMIÈRE

Les caractéristiques des diodes LED ne peuvent pas être complètement prévues pendant la phase de réalisation mais il est nécessaire d'effectuer une sélection des diodes enfin réalisées. On entend souvent parler de Binning des LED, il s'agit de la méthode de classement des puces (LED Chips) de sorte que les LED sélectionnées dans un groupe particulier d'appartenance ont un aspect et des caractéristiques similaires. La demande de LED ayant un binning réduit (c'est-à-dire acheter des LED avec les mêmes caractéristiques) se traduit par des coûts d'approvisionnement plus élevés compte tenu du fait que la sélection devra être plus soignée. En ce qui concerne la qualité de la lumière il est important d'introduire le concept de la consistance de la couleur en informant l'utilisateur du fait que deux appareils ayant la même température de couleur (ex : 3.000K) peuvent générer deux effets différents sur la même superficie en termes de couleur de la lumière perçue. Pour contourner ce problème et pour mesurer les différences de couleur on a eu recours au système basé sur les ellipses de MacAdam. Les ellipses de MacAdam sont décrites comme "step" et elles définissent comment toute sorte de tonalité de couleur circonscrite par le périmètre de l'ellipse par rapport à un point de référence central, n'est pas perçue par l'oeil humain même si elle présente des différences. Afin d'optimiser la qualité et l'uniformité chromatique des sources lumineuses, les LED utilisées dans les produits IDEALLUX® sont sélectionnées pour obtenir une précision égale à 3 Steps de MacAdam (3 SDCM - Standard Deviation of Color Matching).

ES

LED: CALIDAD DE LA LUZ

Las características de los diodos LED no pueden preverse completamente en su fase de realización, por lo que es necesario efectuar una selección de los diodos una vez realizados. Con frecuencia oímos hablar de Binning de los leds, es el método para pedir los chips LED, de modo que los leds seleccionados en un determinado grupo de pertenencia tengan aspecto y características similares. Una solicitud de leds con binning reducido (es decir, adquirir leds con características similares) se traduce en costes de aprovisionamiento mayores considerando una selección más precisa. Al referirnos a la de calidad de la luz es importante introducir el concepto de consistencia del color, o sea informar al usuario que dos luminarias con la misma temperatura de color (ej. 3.000K) pueden generar dos efectos diferentes sobra la misma superficie en términos de color percibido de la luz. Para evitar este problema y para calcular las diferencias de color se recurre al sistema basado en las elipses de MacAdam. Las elipses de MacAdam se describen como "pasos" y se definen como cualquier tono de color circunscripto en el perímetro de la elipse respecto a un punto central, no es percibido por el ojo humano aunque presente diferencias instrumentales. A fin de optimizar la calidad y la uniformidad cromática de las fuentes luminosas, los leds utilizados en los productos IDEALLUX® Línea Colombo se seleccionan para obtener una precisión igual a 3 pasos de MacAdam (3 SDCM - Standard Deviation of Color Matching).

DE

LED: LICHTQUALITÄT

Bei der Herstellung der LEDs kommt es zu Streuungen der Farbparameter, die eine Selektierung der produzierten Dioden notwendig machen, dem sogenannten "Binning"(vom englischen "bin" = Behälter). Eine besonders akkurate Selektion ist aufwändiger und führt zu höheren Einkaufspreisen der LEDs, garantiert aber Leuchtmittel mit einer besseren, da gleichmäßigeren Lichtqualität. In diesem Zusammenhang ist es notwendig, auf eine ausreichende Farbkonsistenz zu achten. Denn es ist grundsätzlich möglich, daß zwei Lampen mit der nominell gleichen Farbtemperatur (z.B. 3.000 K) zwei unterschiedlich empfundene Lichteffekte auf der gleichen Oberfläche generieren können. Zur besseren Abgrenzung wurde daher eine ANSI-Norm geschaffen, die diese Farbwertabweichungen mithilfe der MacAdams-Ellipsen definiert. Diese Ellipsen beschreiben die Farbabstände auf einem XY-Koordinatensystem. Die Anzahl ("Steps") der von den verschiedenen LEDs erfassten MacAdams-Ellipsen informiert den Nutzer darüber, wie weit die Lichtfarben einzelner LEDs voneinander abweichen (Farbtoleranz). Die von IDEALLUX eingesetzten LEDs entstammen einer strengen Selektion mit nur 3 Steps nach MacAdam (3 SDCM = Standard Deviation of Color Matching). Die Mindestempfehlung der ANSI-Norm liegt bei 4 Steps, die also eine größere Farbabweichung zuläßt.

RU

LED: QUALITÀ DELLA LUCE

Характеристики светодиодных диодов не могут быть полностью предусмотрены во время строительства, но необходимо сделать выбор диодов после их изготовления. Мы часто слышим о биннинге светодиодов, это метод сортировки чипов светодиодов таким образом, чтобы светодиоды, выбранные в определенной группе, к которой они относятся, имели одинаковый внешний вид и характеристики. Спрос на светодиоды с уменьшенным биннингом (то есть на покупку светодиодов с аналогичными характеристиками) приводит к более высоким затратам на закупку с учетом более точного выбора. Говоря о качестве света, важно ввести концепцию согласованности цветов, то есть проинформировать пользователя о том, что два прибора с одинаковой цветовой температурой (например, 3000 K) могут создавать два разных эффекта на одной поверхности с точки зрения воспринимаемого цвета света. Чтобы преодолеть эту проблему и измерить цветовые различия, использовалась система на основе эллипсов MacAdam. Эллипсы Макадама описываются как «ступеньки» и определяют, как любой оттенок цвета, описанный по периметру эллипса относительно центрального ориентира, не воспринимается человеческим глазом, даже если инструментально представляет различия. Чтобы оптимизировать качество и однородность цвета источников света, светодиоды, используемые в продуктах IDEALLUX®, выбраны так, чтобы получить точность, равную 3 шагу MacAdam (3 SDCM - Стандартное отклонение соответствия цветов).

SILICON OPTICS

CHARACTERISTICS AND BENEFITS

The use of printed silicon optics applied to LED technology allow the realization of professional fixtures with high performance through the optimization of the optical and mechanical characteristics.

The use of the silicon optics guarantee:

- Optical waterproof unit – the correctly installed lens guarantees the impermeability of the optic group without the use of secondary gaskets.
- High thermal resistance suitable for extreme environments too – the use of silicon allows to produce optical units able to resist to working temperatures between -40° and +150° (with spikes up to +200°C too); this characteristic is an important benefit considering the direct exposure to the solar rays and relative heating of the fittings surfaces during the daylight hours.
- High UV resistance both external and from the source – a further characteristic of the silicon is the high UV resistance without external treatments. The risk of yellowing is nearly void.
- Resistance and lightness – the fittings with same power and dimensions result stronger and lighter compared to same version with glass cover; the silicon optic presents high IK resistance (IK10), high natural abrasion resistance and high resistance to microfractures.
- High optical output – through use of silicon optics the fixtures have high optical outputs, as it can be obtained trasmittances until 94-96%. This result cannot be reached through use of traditional fitting produced with aluminium reflector and front protection glass.

Furthermore the quick evolution of this recent technology together with the high material workability allows the realization of different types of optics enabling the designers to realize fittings with photometrical distributions studied properly for the destination of use of the products



IT

CARATTERISTICHE E VANTAGGI

L'utilizzo di lenti stampate in silicone applicate alla tecnologia LED permettono di realizzare apparecchi professionali con ottime performance ottimizzando le caratteristiche ottiche e meccaniche;

L'impiego delle ottiche in silicone infatti garantisce:

- Tenuta stagna del gruppo ottico intrinseca – è la stessa lente, opportunamente installata, che garantisce l'impermeabilità del vano ottico senza ricorrere a guarnizioni secondarie.
- Resistenza termica elevata ideale anche in ambienti estremi – l'utilizzo del silicone consente di realizzare gruppi ottici che possono resistere (senza subire variazioni meccaniche ed ottiche) a temperature di lavoro comprese tra i -40°C e +150°C (anche con picchi fino a +200°C); questa caratteristica è un vantaggio considerando l'esposizione diretta ai raggi solari e relativo riscaldamento delle superfici, che gli apparecchi di illuminazione subiscono durante le ore diurne.
- Elevata resistenza agli UV sia esterni che della sorgente – un'ulteriore caratteristica del silicone è quella di avere una elevata resistenza ai raggi ultravioletti senza trattamenti esterni tanto da considerare il rischio ingiallimento pressoché nullo.
- Resistenza e leggerezza – a parità di potenza e dimensioni gli apparecchi di illuminazione risultano più robusti e leggeri rispetto ad un'analoga versione con vetro di chiusura; l'ottica in silicone presenta un grado di resistenza all'impatto IK elevato (IK10) ed alle microfratture oltre che una naturale resistenza all'abrasione.
- Rendimento ottico elevato – un prodotto realizzato con l'ausilio di ottiche siliconiche è un prodotto con ottimi rendimenti ottici dati dal fatto che si possono raggiungere trasmittanze fino al 94-96% cosa non realizzabile con prodotti tradizionali realizzati con riflettore in alluminio e vetro di protezione anteriore.

Inoltre, la veloce evoluzione di questa recente tecnologia, unitamente alla lavorabilità elevata del materiale, ha consentito di realizzare differenti tipi di ottiche consentendo ai progettisti di realizzare apparecchi con distribuzioni fotometriche mirate per la destinazione d'uso dei prodotti.

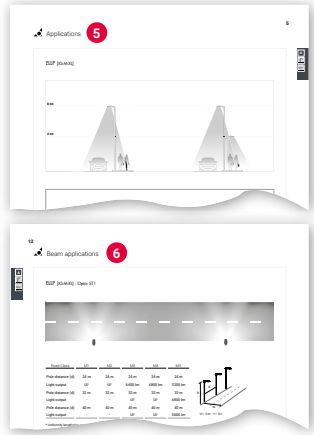
For french, spanish, german and russian translations, please refer to our web site

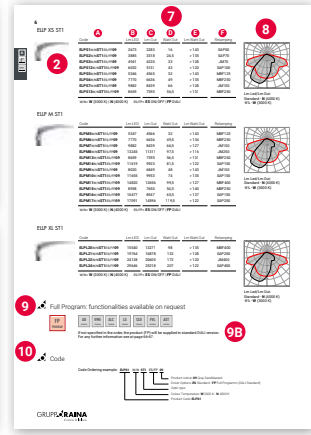


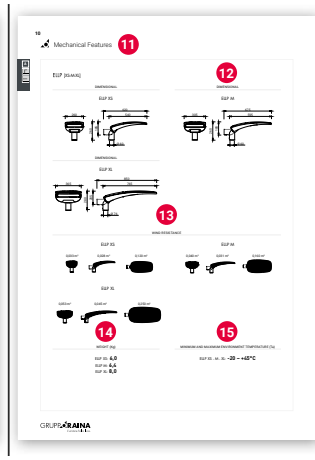
LEGENDA

HOW TO READ THE CATALOGUE - STREET LIGHTS









	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения
6	"Beam" applications	Applicazioni "fascio luminoso"	Utilisations "faisceau lumineux"	Aplicaciones " haz de luz"	" Lichtstrahls" Anwendung	Применения "луча"
7	Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
8	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
9	"Full Program" functions	Funzioni "Full Program"	Fonctions "Full Program"	"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"
9B	If not specified in the order, the product (FP) will be supplied in standard DALI version. For any further information see at page 66-67.	Se non specificato in fase di ordine, il prodotto (FP) sarà fornito con funzionalità standard DALI. Ulteriori informazioni vedi pagina 66-67.	En absence d'indication particulière à la commande, le produit (FP) sera fourni dans la version standard DALI. Informations supplémentaires cf. page 66-67.	Sin más especificaciones en el pedido, el producto (FP Full Program) será suministrado con la función estándar DALI. Para más detalles ver página 66-67.	Falls bei der Bestellung keine Funktionsanforderung angegeben ist, wird das Produkt (FP Full Program) mit Standard-DALI-Funktionalität geliefert. Für weitere Informationen sehen Sie Seite 66-67.	Если не указано иное во время заказа, продукт (FP) будет поставляться со стандартной функцией DALI. Дополнительная информация на странице 66-67.
10	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
11	Mechanical features	Caratteristiche meccaniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
12	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
13	Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
14	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
15	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maximale Temperatur (Ta)	Минимальная температура и максимальная (Ta)

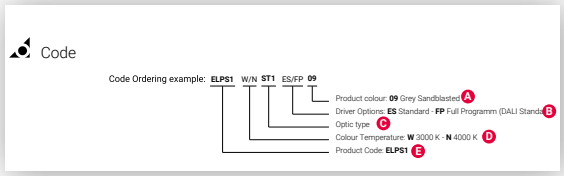
LEGENDA

7 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

10 ORDER CODE EXAMPLE

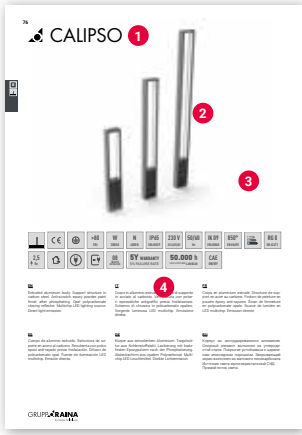
- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

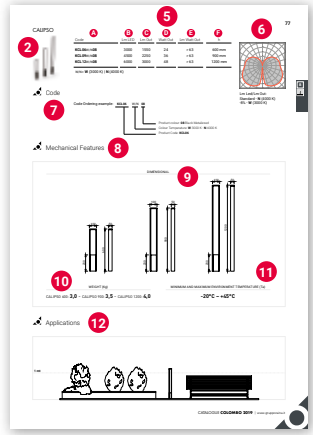


	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Driver type	Tipo di driver	Type de câblage	Tipo de cableado	Treibertyp	Тип драйвера
C	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
D	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
E	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

HOW TO READ THE CATALOGUE - BOLLARD





	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Product data (see page xx)	Dati prodotto (vedi pagina xx)	Données produit (voir page xx)	Datos del producto (ver página xx)	Produktdaten (siehe Seite xx)	Данные об изделии (см. стр. xx)
6	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
7	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
8	Mechanical features	Caratteristiche meccaniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschafte	Механические характеристики
9	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
10	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
11	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)
12	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения

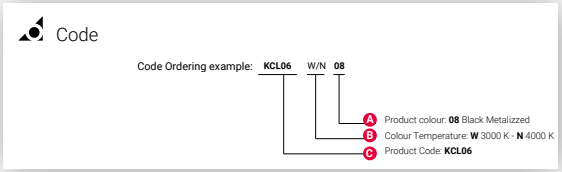
LEGENDA

5 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

7 ORDER CODE EXAMPLE

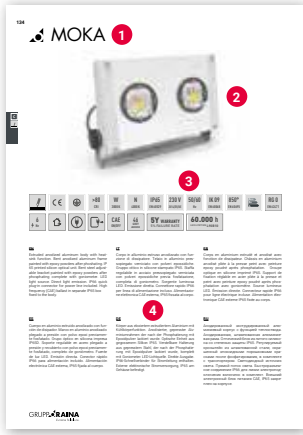
- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

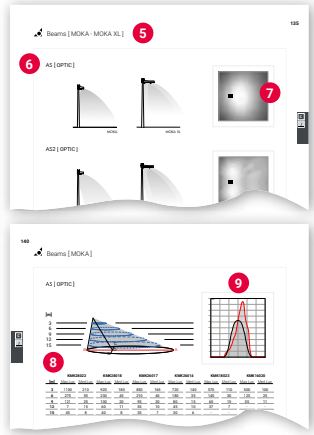


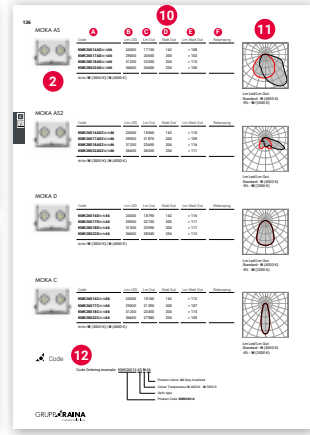
	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
C	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

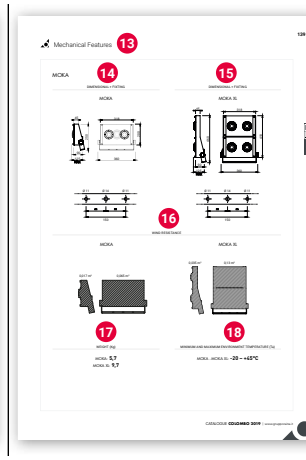
LEGENDA

HOW TO READ THE CATALOGUE - FLOODLIGHTS









	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Beam angle	Angolo del fascio luminoso	Angle du faisceau lumineux	Ángulo del haz de luz	Winkel des Lichtstrahls	угол светового луча
6	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
7	Isolux diagrams	Isolinee illuminamento	Diagrammes Isolux	Diagramas de Isolux	Ausleuchtungsdia-gramme	Isolux диаграммы
8	Beam diagrams	Rappresentazione del fascio	Diagramme de faisceau lumineux	Diagrama del haz de luz	Lichtstrahlendiagramm	диаграмма луча
9	Cartesian diagrams	Curva cartesiana	Diagramme cartésien	Diagrama cartesiano	Kartesische Diagramme	Декартовы диаграммы
10	Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
11	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
12	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
13	Mechanical features	Caratteristiche mec-caniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
14	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
15	Fixting	Fissaggi	Fixation	Fijación	Befestigung	монтажные отверстия
16	Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
17	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
18	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)

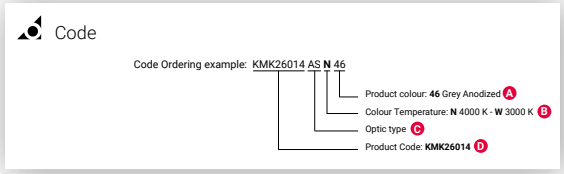
LEGENDA

10 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

12 ORDER CODE EXAMPLE

- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.



	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
C	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
D	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

POSSIBLE APPLICATIONS

APPLICAZIONI POSSIBILI | APPLICATIONS POSSIBLES | POSIBLES APLICACIONES | MÖGLICHE ANWENDUNGEN | ВОЗМОЖНЫЕ ПРИМЕНЕНИЯ

	EN	IT	FR
	Fixed pole-top installation (60 mm diameter pole head).	Installazione fissa cima palo (testa palo diametro 60 mm).	Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre)
	Installation on arm	Installazione a sbalzo	Installation sur crosse
	Bollard light	Colonne luminose	Colonnes lumineuses
	Floodlight	Proiettore	Projecteur

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
	Indicates that the product meets the requirements of the applicable EC Directives of the regulations in the EU	Indica che il prodotto è conforme ai requisiti di sicurezza richiesti dalle direttive e dalle normative della Comunità Europea.	Certifie que le produit est réalisé au sein de l'Union Européenne et dans le respect des normes de sécurités en vigueur.
	Isolation class 1	Classe di isolamento 1	Classe d'isolation 1
	Isolation class 2	Classe di isolamento 2	Classe d'isolation 2
	CRI (Colour Rendering index) indicates how natural the colours of the illuminated objects look	CRI (Colour Rendering index) Indica quanto naturali appaiano i colori degli oggetti da essa illuminati.	CRI (Colour Rendering index)Indique le rendement des couleurs des objets éclairés.
	It identifies the colour temperature of the LEDS expressed in Kelvin	Indica la temperatura di colore del LED espressa in gradi Kelvin	Température de la couleur de la LED exprimée en degrés Kelvin
	Indicates the protection degree of the fixture against dust and water	Rappresenta il grado di protezione dell'apparecchio dalla polvere e dall'acqua.	Indique le degré de protection de l'appareil contre les poussières et l'eau
	Indicates the operating voltage of the fitting	Indica le tensioni operative dell'apparecchio.	Indique les tensions de travail de l'appareil
	Indicates the operating frequencies of the fitting	Indica le frequenze operative dell'apparecchio.	Indique les fréquences de travail de l'appareil
	Degree of Protection against external mechanical impact	Indica il grado di resistenza all'urto dell'involucro esterno dell'apparecchio.	Indique le degré de protection de l'emballage du produit contre les impacts mécanique externes
	It indicates the flammability degree of plastic materials according to CEI 50-11 standards	Indica il grado di infiammabilità dei materiali plastici in accordo alle normative CEI 50-11.	Indique le degré d'auto-extinction des matières plastiques selon les standards CEI 50-11-
	Energy consumption class	Classe energetica	Classe de consommation d'énergie
	Exempt Risk Group. Installed under normal conditions of use (minimum distance between user and light source of 4m)	Rischio Esente. Installata in normali condizioni d'impiego (distanza minima tra utilizzatore e sorgente luminosa di 4m)	Risque 0. Installée en conditions normales d'utilisation (distance minimum entre l'utilisateur et source lumineuse doit être 4mt)

LEGENDA

ES	DE	RU
Instalación fija a columna (columna diámetro 60mm).	Feste polkopfinstallation (polkopfdurchmesser 60 mm).	Несъёмная установка на столбе (диаметр головки столба 60 мм).
Instalación con carga	Freitragende installation	Установка на руку
Bolardos luminosos	Pollerleuchten	Столбик света
Proyector	Projektor	Прожектор

ES	DE	RU
Certifica que el producto es realizado en el ambito de la Comunidad Europea y respeta las normas de seguridad vigentes.	Gibt an, dass das Produkt den Sicherheitsanforderungen der Richtlinien und Verordnungen der Europäischen Gemeinschaft entspricht.	Указывает на то, что продукт соответствует требованиям безопасности, разработанным применяемыми директивами законодательства в Европейском союзе.
Clase de aislamiento 1	Isolationsklasse 1	Класс изоляции 1
Clase de aislamiento 2	Isolationsklasse 2	Класс изоляции 2
CRI (Colour Rendering index) Indica el nivel de apariencia naturallos colores de los objetos iluminados.	CRI (Colour Rendering index) Gibt an, wie natürlich die Farben der beleuchteten Objekte erscheinen.	CRI (Показатель цветопередачи) Он указывает, насколько натурально выглядят цвета освещаемых предметов.
Indica la temperatura de color del LED expresada en grados Kelvin	Zeigt die Farbtemperatur der LED in Kelvin-Graden	Определяет цветовую температуру светодиодов, выраженную в Кельвинах
Indica el grado de proteccion de la luminaria al polvo y al agua	Gibt den Schutzgrad des Geräts vor Staub und Wasser an.	Он показывает степень защиты поверхностей.
Indica las tensiones operativas de la luminaria	Zeigt die Betriebsspannungen des Geräts an.	Это указывает рабочее электрическое напряжение светильника.
Indica las frecuencias operativas de la luminaria.	Zeigt die Betriebsfrequenzen des Geräts an.	Это указывает рабочую частоту светильника.
Indica el grado de resistencia al impacto de la cubierta externa de la luminaria	Zeigt den Grad der Schlagfestigkeit des äußeren Gehäuses des Geräts an.	Степень защиты от воздействия внешних механических факторов
Indica el grado de auto extincion del material plastico segun los estandares estadounidense CEI 50-11.	Gibt den Entzündbarkeitsgrad von Kunststoffen gemäß CEI 50-11 an.	Он указывает степень воспламеняемости пластиковых материалов в соответствии со стандартами CEI 50-11.
Clase de consumo de energia	Energieverbrauchsklasse	Класс энергозатрат
Riesgo Exento. Instalada en condiciones normales de uso (distancia mínima de 4 metros entre utilizador y fuente luminosa)	Risikofrei. Unter normalen Betriebsbedingungen installiert (Mindestabstand zwischen Benutzer und Lichtquelle von 4 m)	Без риска. Уста- навливая при нор- мальных условиях использования (минимальное расстояние между пользователем и источником света 4 м)

LEGENDA

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
	Surge protector	Protezione contro le scariche atmosferiche	Protection contre les décharges atmosphériques
	Fitting suitable for outdoor use	Apparecchio idoneo per l'utilizzo in ambienti esterni	Luminaire adapté pour une installation en extérieur
	Integrated power supply	Alimentatore integrato	Alimentation intégrée
	Separate power supply	Alimentatore separato	Alimentation séparée
	Power supply	Alimentazione	Alimentation
	Black metallized colour	colore nero metallizzato	Couleur noir métallique
	Grey sandblasted colour	Colore grigio sabbiato	Couleur gris sablé
	Grey anodized	Grigio anodizzato	Gris anodisé
	Service Life LED	Aspettativa di vita del LED	Durée de vie LED
	Warranty. More details on our website	Garanzia. maggiori dettagli alla nostra pagina web	Garantie. Plus de détails sur notre page Web.
	Active temperature control	Controllo attivo della temperatura	Contrôle actif de la température
	ON/OFF operation	Funzionamento ON/OFF	Fonctions ON/OFF
	"Full Program" functions	Funzioni "Full Program"	Fonctions"Full Program"

LEGENDA

ES	DE	RU
Protección contra descargas atmosféricas	Schutz vor atmosphärischen Entladungen	Защита от атмос-ферных влияний
Luminaria adecuada para uso en exteriores	Leuchte für den Außenbereich geeignet	Прибор подходит для использования в помещениях внешний.
Fuente de alimentación integradal	Integrierte Stromversorgung	встроенный источник питания
Fuente de alimentación separada	Separate Stromversorgung	отдельный источник питания
Fuente de alimentación	Stromversorgung	Источник питания
Color negro metalizado	Metallische schwarze Farbe	черный металлик
Color gris arenado	Sandgestrahlte graue Farbe	Серый пескоструйный цвет
Anodizado gris	Grau eloxiert	Серый анодированный
Viad Util LED	LED-Lebenswartung	Срок службы СИД
Garantía. más detalles en nuestra página web.	Garantie. Weitere Details auf unserer Webseite	арантия. Дальнейшие детали на нашем сайте
Control activo de temperatura	Aktive Temperaturregelung	активный контроль температуры
Operación ON/OFF	EIN / AUS-Betrieb	ON/OFF операция
"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"

CASE HISTORY

AMONG OUR CUSTOMERS WE COUNT:

- Penny market
- Assicurazioni Generali, Milano
- Negozi | Shops Nurith
- Ubi banca
- Mbda, La Spezia
- Negozi | Shops arredamento home plus
- De Rigo Refrigeration
- Ipermercati | Supermarket Coop
- Antony Morato
- Natuzzi Divani
- Brunello Cucinelli
- Negozi | Shops Orofino
- Depositi | Warehouses Comifar
- Piaggio
- Ups logistica | Logistic
- Santo Stefano S.P.A.
- Volkswagen
- Rapitech, Lecco
- Pelletteria Meucci, Scandicci
- Et Engineering&Technology, Perignano
- Favilli Pneumatici, Perignano
- Solettificio Guerrieri, Fucecchio
- Trelleborg
- Negozi | Shops Strolli Oro
- Negozi | Shops Profumerie Limoni
- Indesit
- Maletti group



Politecnico "Lecco"



Yeast Factory salataguse, "Estonia"



Orchid hotel, "Abu Dhabi", uae



Yeast factory Salataguse, "Estonia"

CASE HISTORY



Factory



Yeast factory Salataguse, "Estonia"



Office



Coop Supermarket

PROJECTS:

- Castello / *Castle*, Lerici
- Aeroporto | *Airport*, Pisa
- Concessionaria Fiat, Roma
- Palazzo | *Building* INPS , Genova
- Stabilimenti | *Factory* Acqua Uliveto
- Fiera | *Fair* Milano
- Fiera | *Fair* Roma
- Fiera | *Fair* Genova
- Ospedale | *Hospital* San Raffaele, Milano
- Base NATO, Napoli
- Carcere | *Prison* , Parma
- Scuole | *Schools*, Bari
- Politecnico, Lecco
- Istituto Poligrafico dello Stato, Roma
- Stadio | *Stadium* Meazza, Milano
- Stadio del Tennis | *Tennis Stadium*, Roma
- Torre | *Tower* Isozaki, Milano
- Torre | *Tower* Zucchetti, Lodi
- Torre | *Tower* Hadid, Milano
- Nuvola Lavazza, Torino
- Palazzo | *Building* Sky, Milano
- Asilo nido | *Nursery* Guastalla, Monza
- Ospedale | *Hospital* , Alessandria
- B&B Hotel, Sesto San Giovanni
- Aeroporto | *Airport* Namibe, Angola
- Arab Bank Amman, Giordania
- Al Jalila Cultural Center, Dubai UAE
- Bank of Sharjah, UAE

CASE HISTORY

PROJECTS:

- Giordania Mabada & Shuna Clinic, Giordania
- Palazzo | *Palace* Versace Hotel, Dubai UAE
- Dubai International Airport APM, Dubai UAE
- Institute of applied technology, Abu Dhabi UAE
- Arab Ready Food Mela, Giordania
- Khalifa Hospital, Dubai UAE
- Energy city, Doha Qatar
- Ethyad Tower, Abu Dhabi UAE
- Salam Mall, Kuwait
- Custom Buildings, Dubai UAE
- YAS Island Police Station, Abu Dhabi UAE
- Tangram Hotel Erbil, Iraq
- Emirates Bank, Dubai UAE
- Gold's gym, Kuwait
- Ghanima Hospital, Kuwait
- Al Raha Beach Development, Abu Dhabi UAE
- Al Raha Beach Apartments, Abu Dhabi UAE
- Grand Millenium Hotel, Iraq
- Burj Khalifa Tower, Dubai UAE
- Yas Marina Enhancement Main Contract works, Abu Dhabi UAE
- Red Valentino Boutique, Abu Dhabi UAE
- Arab Bank Sharjah Branch UAE
- 7th&8th floors fit-out works – The Gate Tower, Doha Qatar
- Arab Bank Airport Branch Amman, Giordania
- Finance House Tower, Dubai
- Al Ruwais, Abu Dhabi UAE



Ospedale di "Ginevra"



American University Suleiman, "Iraq"



Abacus hotel, "Hungary"



Negozio "Benetton"

CASE HISTORY



Homeplus



Brunello Cucinelli, Doha, "Qatar"



Alled Shopping Center, "Hungary"



Coop Supermarket

PROJECTS:

- Al Ali Villa at West Bay Lagoon, Qatar
- American office Abu Dhabi Airport, Abu Dhabi UAE
- Al Badie Rotana Hotel, Abu Dhabi UAE
- Ambulatory Health Care Center, Abu Dhabi UAE
- Pipe cast factory, Qatar
- Vip Lounge Safat Airport, Kuwait
- Al Gumrok Hotel, Qatar
- Orchid Hotel, Abu Dhabi UAE



Centro sportivo



Villa Serra di Comago (GE)

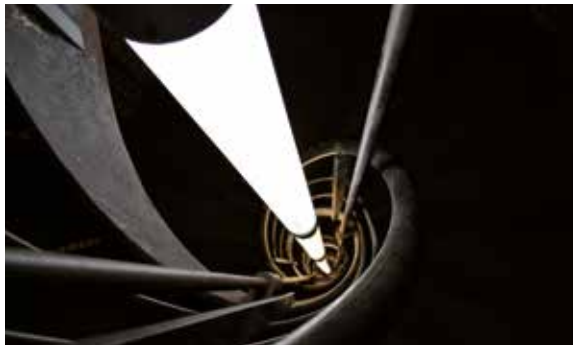
CASE HISTORY



Waterford Theatre Royale, Ireland



ASK



Torre Dei Balivi Aosta



Homeplus



Ospedale Di Ginevra



Scuole



Fiera Milano City



Rho Fiera "Milano"

CASE HISTORY



Abitare In " MIlano"



Abitare In " MIlano"



GRUPPO RAINA
L'unione fa la luce.

STREET LIGHTS



A
001





ELLP

ELLP [XS-M-XL]



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	
RG 0 EN 62471	10 Kv				09 GREY SANDBLASTED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM	

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Adjustable pole fixing system 0°-90° (pole head diameter 60 mm) adjustable from 0° to 20° for pole top installations. LED light source. Direct light emissione. Integrated device for active control of the LED temperature through NTC.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Sistema di fissaggio a palo regolabile 0°-90° (testa palo diametro 60 mm) orientabile da 0° a 20° per installazioni cima palo. Sorgente luminosa LED. Emissione diretta. Dispositivo integrato per il controllo attivo della temperatura dei LED tramite NTC.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord mât orientable de 0° à 90° pour fixation sur la crosse, et de 0° à 20° pour fixation en sommet de mât. (mâts : 60 mm de diamètre). Source lumineuse LED. Emission directe. Système intégré NTC pour contrôle automatique de la température.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm). Conector no incluido. Sistema de fijación de poste adjustable 0°-90° (60 mm de diámetro cabeza del poste) inclinable de 0° a 20° para instalación a columna. Fuente de luz LED. Emisión directa. Dispositivo integrado para el control activo de la temperatura de LED através de NTC.

DE

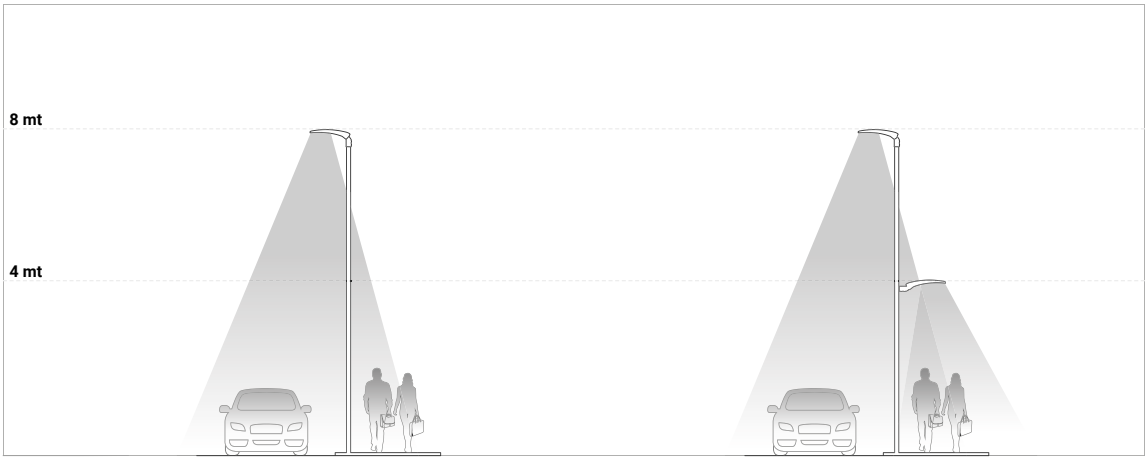
Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Einstellbares Polbefestigungssystem 0°-90° (Polkopfdurchmesser 60 mm), einstellbar von 0° bis 20° für Polkopfinstallationen. LED-Lichtquelle. Direkte Lichtemission. Integriertes Gerät zur aktiven Regelung der LED-Temperatur über NTC.

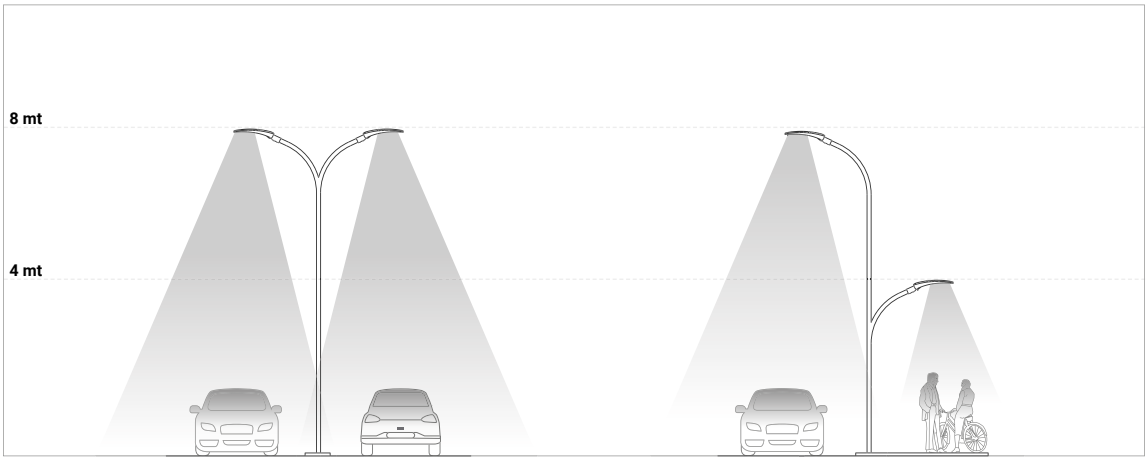
RU

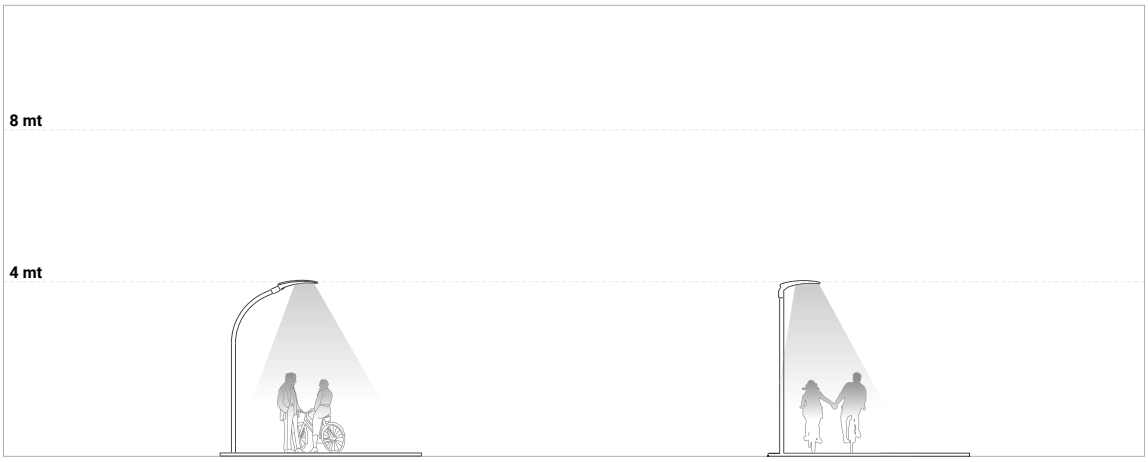
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Система для крепления на столбе с регулируемым углом наклона 0 ° - 90 ° (диаметр головки столба 60 мм), для монтажа от 0 ° до 20 ° . Светодиодный источник света. Прямой поток света. Интегрированное устройство для контроля температуры светодиодов через NTC.

Applications

ELLP [XS-M-XL]





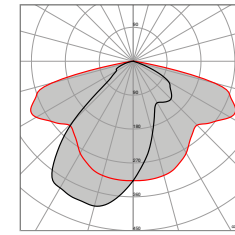


ELLP XS ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST1**ES/FP**09**	2673	2283	16	> 143	SAP50
ELPS2W/N**ST1**ES/FP**09**	3885	3318	24,5	> 135	SAP70
ELPS3W/N**ST1**ES/FP**09**	4941	4220	33	> 128	JM70
ELPS12W/N**ST1**ES/FP**09**	6032	5151	43	> 120	SAP100
ELPS5W/N**ST1**ES/FP**09**	5346	4565	32	> 143	MBF125
ELPS6W/N**ST1**ES/FP**09**	7770	6636	49	> 135	MBF250
ELPS7W/N**ST1**ES/FP**09**	9882	8439	66	> 128	JM150
ELPS13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



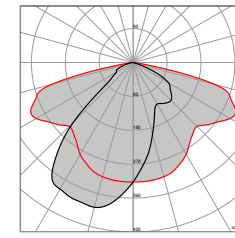
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST1**ES/FP**09**	5347	4566	32	> 143	MBF125
ELPM6W/N**ST1**ES/FP**09**	7770	6636	49,5	> 134	MBF250
ELPM7W/N**ST1**ES/FP**09**	9882	8439	66,5	> 127	JM150
ELPM8W/N**ST1**ES/FP**09**	13245	11311	97,5	> 116	JM250
ELPM13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250
ELPM14W/N**ST1**ES/FP**09**	11619	9923	81,5	> 122	SAP150
ELPM9W/N**ST1**ES/FP**09**	8020	6849	48	> 143	JM150
ELPM10W/N**ST1**ES/FP**09**	11655	9953	74	> 135	SAP150
ELPM11W/N**ST1**ES/FP**09**	14820	12656	99,5	> 127	MBF400
ELPM15W/N**ST1**ES/FP**09**	8958	7650	54,5	> 140	MBF250
ELPM16W/N**ST1**ES/FP**09**	10477	8947	65,5	> 137	SAP150
ELPM17W/N**ST1**ES/FP**09**	17091	14596	119,5	> 122	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



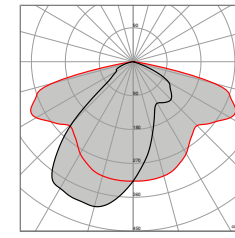
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST1**ES/FP**09**	15540	13271	98	> 135	MBF400
ELPL21W/N**ST1**ES/FP**09**	19764	16878	132	> 128	SAP250
ELPL22W/N**ST1**ES/FP**09**	24128	20605	172	> 120	JM400
ELPL24W/N**ST1**ES/FP**09**	29646	25318	207	> 122	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST1** ES/FP **09**

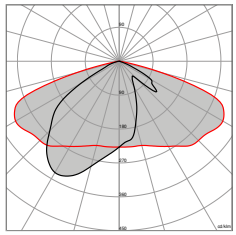
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST2**ES/FP**09**	2673	2403	16	> 150	SAP50
ELPS2W/N**ST2**ES/FP**09**	3885	3493	24,5	> 143	SAP70
ELPS3W/N**ST2**ES/FP**09**	4941	4442	33	> 135	JM70
ELPS12W/N**ST2**ES/FP**09**	6032	5423	43	> 126	SAP100
ELPS5W/N**ST2**ES/FP**09**	5346	4806	32	> 150	MBF125
ELPS6W/N**ST2**ES/FP**09**	7770	6985	49	> 143	MBF250
ELPS7W/N**ST2**ES/FP**09**	9882	8884	66	> 135	JM150
ELPS13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



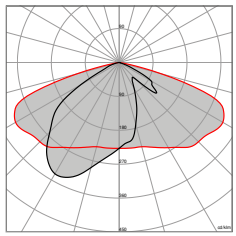
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST2**ES/FP**09**	5347	4807	32	> 150	MBF125
ELPM6W/N**ST2**ES/FP**09**	7770	6985	49,5	> 141	MBF250
ELPM7W/N**ST2**ES/FP**09**	9882	8884	66,5	> 134	JM150
ELPM8W/N**ST2**ES/FP**09**	13245	11907	97,5	> 122	JM250
ELPM13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250
ELPM14W/N**ST2**ES/FP**09**	11619	10445	81,5	> 128	SAP150
ELPM9W/N**ST2**ES/FP**09**	8020	7210	48	> 150	JM150
ELPM10W/N**ST2**ES/FP**09**	11655	10478	74	> 142	SAP150
ELPM11W/N**ST2**ES/FP**09**	14820	13323	99,5	> 134	MBF400
ELPM15W/N**ST2**ES/FP**09**	8958	8053	54,5	> 148	MBF250
ELPM16W/N**ST2**ES/FP**09**	10477	9419	65,5	> 144	SAP150
ELPM17W/N**ST2**ES/FP**09**	17091	15365	119,5	> 129	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



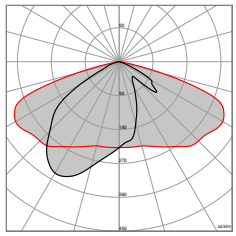
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST2**ES/FP**09**	15540	13970	98	> 143	MBF400
ELPL21W/N**ST2**ES/FP**09**	19764	17768	132	> 135	SAP250
ELPL22W/N**ST2**ES/FP**09**	24128	21691	172	> 126	JM400
ELPL24W/N**ST2**ES/FP**09**	29646	26652	207	> 129	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST2** ES/FP **09**

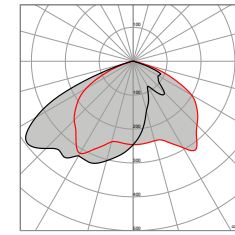
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**AS1**ES/FP**09**	2673	2227	16	> 139	SAP50
ELPS2W/N**AS1**ES/FP**09**	3885	3236	24,5	> 132	SAP70
ELPS3W/N**AS1**ES/FP**09**	4941	4116	33	> 125	JM70
ELPS12W/N**AS1**ES/FP**09**	6032	5025	43	> 117	SAP100
ELPS5W/N**AS1**ES/FP**09**	5346	4453	32	> 139	MBF125
ELPS6W/N**AS1**ES/FP**09**	7770	6472	49	> 132	MBF250
ELPS7W/N**AS1**ES/FP**09**	9882	8232	66	> 125	JM150
ELPS13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



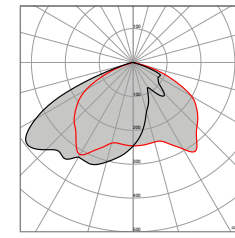
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**AS1**ES/FP**09**	5347	4454	32	> 139	MBF125
ELPM6W/N**AS1**ES/FP**09**	7770	6472	49,5	> 131	MBF250
ELPM7W/N**AS1**ES/FP**09**	9882	8232	66,5	> 124	JM150
ELPM8W/N**AS1**ES/FP**09**	13245	11033	97,5	> 113	JM250
ELPM13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250
ELPM14W/N**AS1**ES/FP**09**	11619	9679	81,5	> 119	SAP150
ELPM9W/N**AS1**ES/FP**09**	8020	6681	48	> 139	JM150
ELPM10W/N**AS1**ES/FP**09**	11655	9709	74	> 131	SAP150
ELPM11W/N**AS1**ES/FP**09**	14820	12345	99,5	> 124	MBF400
ELPM15W/N**AS1**ES/FP**09**	8958	7462	54,5	> 137	MBF250
ELPM16W/N**AS1**ES/FP**09**	10477	8727	65,5	> 133	SAP150
ELPM17W/N**AS1**ES/FP**09**	17091	14237	119,5	> 119	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



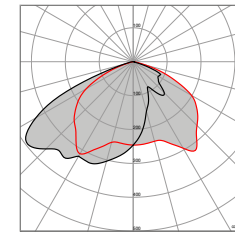
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**AS1**ES/FP**09**	15540	12945	98	> 132	MBF400
ELPL21W/N**AS1**ES/FP**09**	19764	16463	132	> 125	SAP250
ELPL22W/N**AS1**ES/FP**09**	24128	20099	172	> 117	JM400
ELPL24W/N**AS1**ES/FP**09**	29646	24695	207	> 119	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **AS1** ES/FP **09**

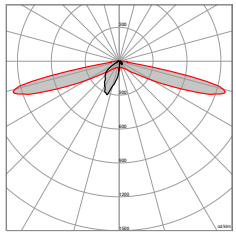
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**CP**ES/FP**09**	2673	2387	16	> 149	SAP50
ELPS2W/N**CP**ES/FP**09**	3885	3469	24,5	> 142	SAP70
ELPS3W/N**CP**ES/FP**09**	4941	4412	33	> 134	JM70
ELPS12W/N**CP**ES/FP**09**	6032	5387	43	> 125	SAP100
ELPS5W/N**CP**ES/FP**09**	5346	4774	32	> 149	MBF125
ELPS6W/N**CP**ES/FP**09**	7770	6939	49	> 142	MBF250
ELPS7W/N**CP**ES/FP**09**	9882	8825	66	>134	JM150
ELPS13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



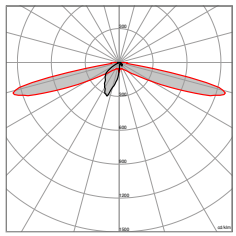
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**CP**ES/FP**09**	5347	4775	32	> 149	MBF125
ELPM6W/N**CP**ES/FP**09**	7770	6939	49,5	> 140	MBF250
ELPM7W/N**CP**ES/FP**09**	9882	8825	66,5	> 133	JM150
ELPM8W/N**CP**ES/FP**09**	13245	11828	97,5	> 121	JM250
ELPM13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250
ELPM14W/N**CP**ES/FP**09**	11619	10376	81,5	> 127	SAP150
ELPM9W/N**CP**ES/FP**09**	8020	7162	48	> 149	JM150
ELPM10W/N**CP**ES/FP**09**	11655	10408	74	> 141	SAP150
ELPM11W/N**CP**ES/FP**09**	14820	13234	99,5	> 133	MBF400
ELPM15W/N**CP**ES/FP**09**	8958	7999	54,5	> 147	MBF250
ELPM16W/N**CP**ES/FP**09**	10477	9356	65,5	> 143	SAP150
ELPM17W/N**CP**ES/FP**09**	17091	15262	119,5	> 128	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



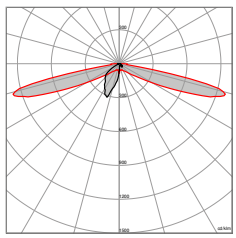
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**CP**ES/FP**09**	15540	13877	98	> 142	MBF400
ELPL21W/N**CP**ES/FP**09**	19764	17649	132	> 134	SAP250
ELPL22W/N**CP**ES/FP**09**	24128	21546	172	> 125	JM400
ELPL24W/N**CP**ES/FP**09**	29646	26474	207	> 128	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **CP** ES/FP **09**

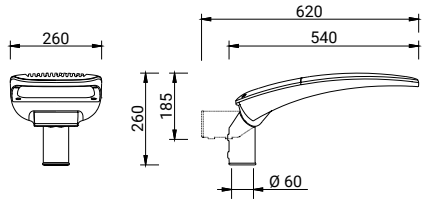
- **09** Product colour: **09** Grey Sandblasted
- ES/FP Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- **CP** Optic type
- W/N Colour Temperature: **W** 3000 K - **N** 4000 K
- **ELPS1** Product Code: **ELPS1**

A

ELLP [XS-M-XL]

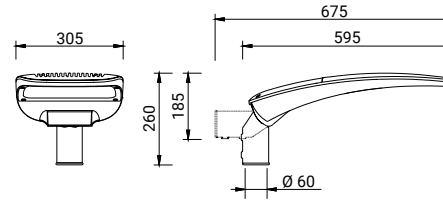
DIMENSIONAL

ELLP XS



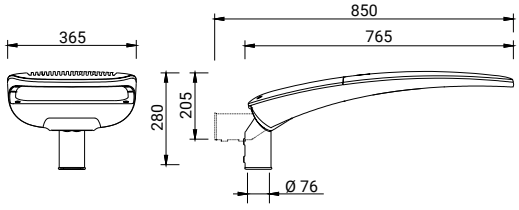
DIMENSIONAL

ELLP M



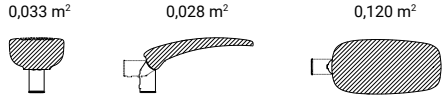
DIMENSIONAL

ELLP XL

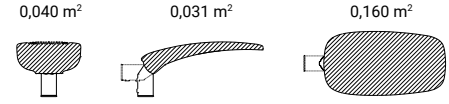


WIND RESISTANCE

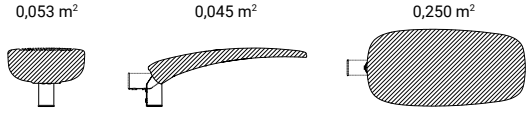
ELLP XS



ELLP M



ELLP XL



WEIGHT (Kg)

ELLP XS: **6,0**
ELLP M: **6,4**
ELLP XL: **8,0**

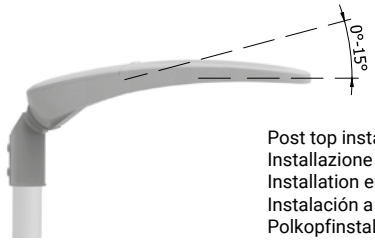
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ELLP XS - M - XL: **-20 ~ +45°C**

ELLP [XS-M-XL]

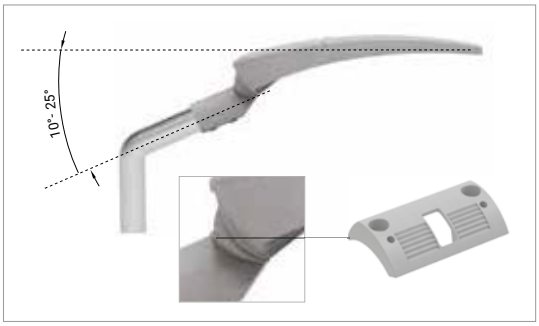
STANDARD FEATURES | INSTALLAZIONI STANDARD | CARACTÉRISTIQUES STANDARD | CARACTERÍSTICAS ESTÁNDAR STANDARD EINGESCHAFTEN | СТАНДАРТНЫЕ ФУНКЦИИ



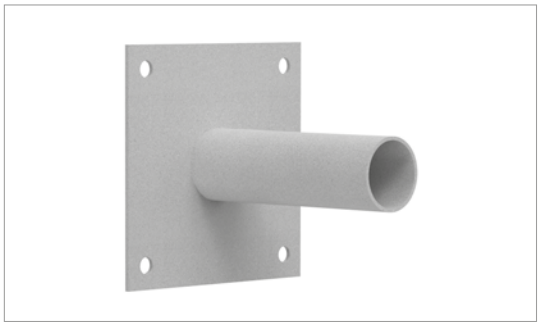


Post top installation
Installazione testa palo
Installation en tete de mat
Instalación a columna
Polkopfinstallation
Пост верхняя установка

ACCESSOIRES FOR SPECIAL INSTALLATIONS | ACCESSORI PER INSTALLAZIONI SPECIALI | ACCESSOIRES POUR INSTALLATIONS SPÉCIALES ACCESORIOS PARA INSTALACIONES ESPECIALES | ZUBEHÖRE FÜR SPEZIELLE INSTALLATIONEN ДЕТАЛИ ДЛЯ СПЕЦИАЛЬНЫХ УСТАНОВОК



KT6001
Adaptor for tilting (10° - 25°)
Adattatore per inclinazione (10° - 25°)
Adaptateur pour inclination (10° - 25°)
Adaptador para inclinación (10° - 25°)
Adapter für Neigung (10° - 25°)
Адаптер для наклона (10° - 25°)



KT6002
Support for wall mounting
Supporto staffaggio a parete
Support pour installation murale
Soporte fijación a pared
Wandhalterung
Настенный кронштейн



KT6003
Adaptor for pole (Ø 76 mm)
Adattatore per palo (Ø 76 mm)
Adaptateur pour mat (Ø 76 mm)
Adaptador de columna (Ø 76 mm)
Poladapter (Ø 76 mm)
Крепление для столба (Ø 76 mm)



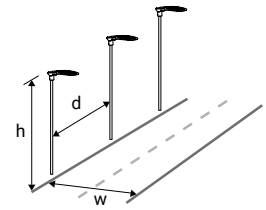
KT6005
2 poles quick plug-in kit for electrical connection
Kit connettori rapidi 2 poli per connessione elettrica
Kit de connexion rapide à 2 pôles pour le raccordement électrique
Kit de enchufes rápidos de 2 polos para conexión eléctrica
2-poliger Schnellsteckersatz für elektrischen Anschluss
2-полюсный комплект быстрых штекеров для электрического подключения

Beam applications

ELLP [XS-M-XL] - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm



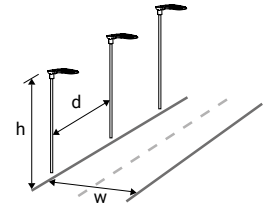
W= 8 m - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm

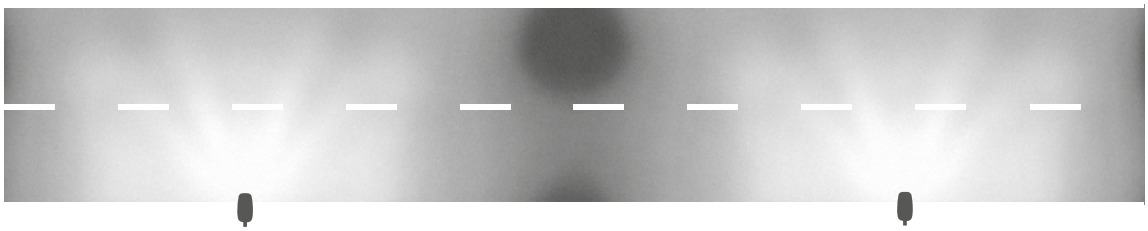


W= 8 m - H= 8m

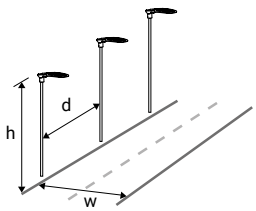
* Uniformity lengthwise not met

Beam applications

ELLP [XS-M-XL] - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm



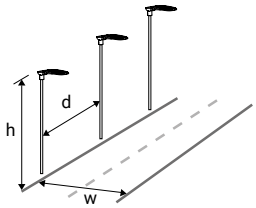
W= 10 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-



W= 8 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL]







KELPZS - Zagha socket
KELPNS - Nema socket

FP
PROGRAM

Only for full program - Solo per Full Programm - Seulement pour Full Programm - Solo para Full Programm - Nur für Full Programm - Только для полной программы.













BOX

BOX



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminium body painted with epoxy powders after phosphating. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio presso-piegato verniciato con polveri epossidiche previa fosfatazione. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium presse-plié, peinture à base de poudre époxyde et traitement de surface No-Rinse. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio plegado a presión y barnizado con polvos epoxidicos previa fosfatación. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

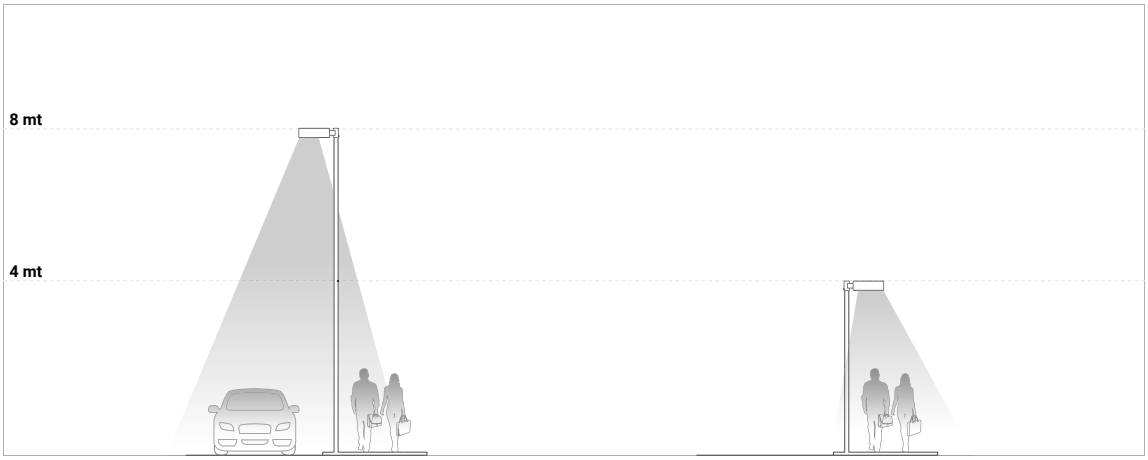
Körper aus Aluminiumdruckguss, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из литого под давлением фосфатированного алюминия, окрашенного эпоксидными порошками. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

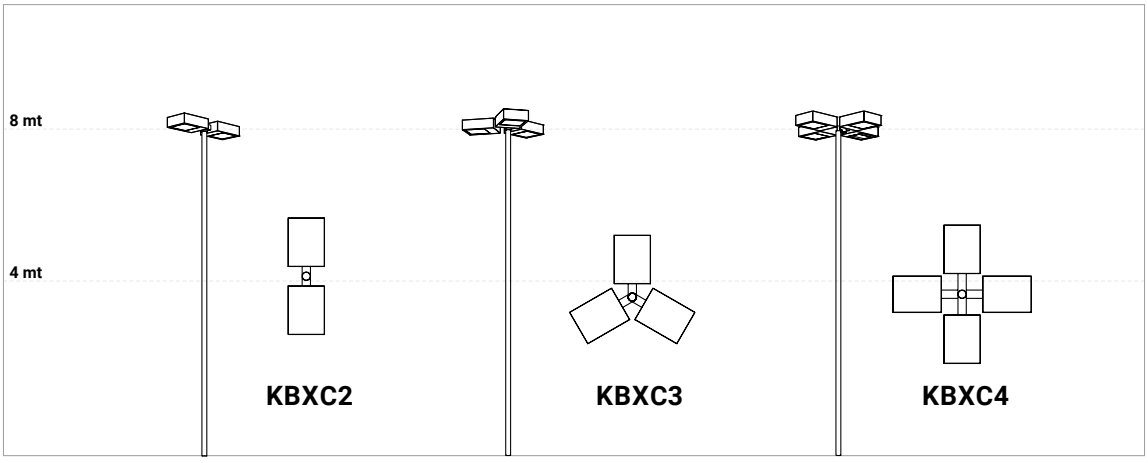
Applications

BOX



Special applications on request

BOX



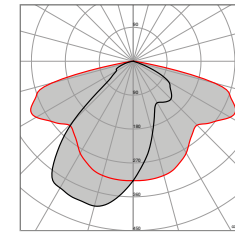


BOX ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

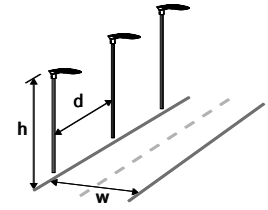
Applications

BOX - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm

* Uniformity lengthwise not met



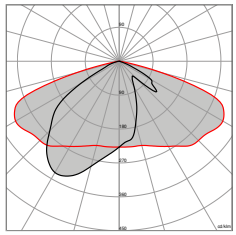
W= 8 **m** - H= 8m

BOX ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST2**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST2**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST2**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST2**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST2**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST2** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

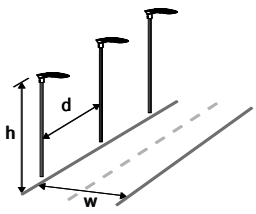
Applications

BOX - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm

* Uniformity lengthwise not met



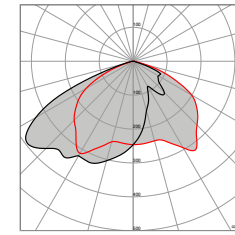
W= 8 **m** - H= 8m

BOX AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

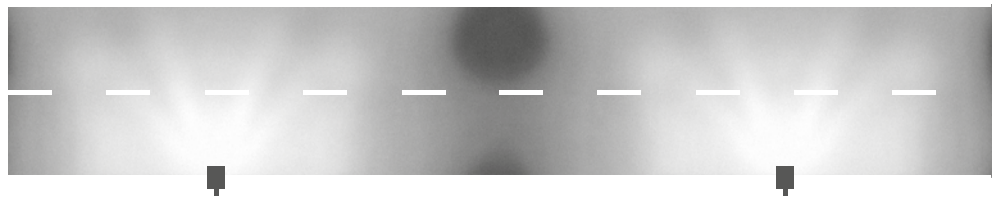
Code

Code Ordering example: **BX0803** W/N **AS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

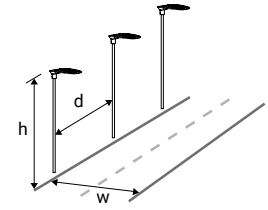
Applications

BOX - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm

* Uniformity lengthwise not met



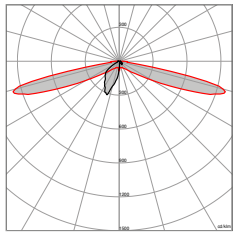
W= 8 m - H= 8m

BOX CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**CP**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**CP**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**CP**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**CP**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**CP**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**CP**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **CP** ES/FP **08**

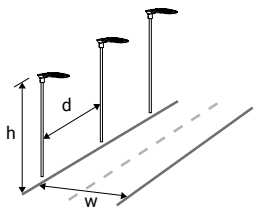
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

Applications

BOX - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI*	UI*	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-



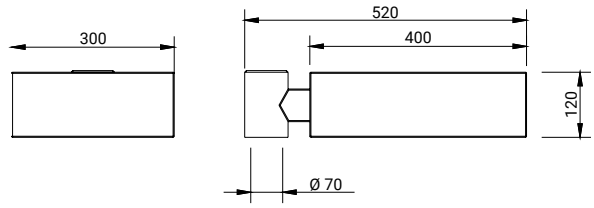
W= 8 m - H= 8m

* Uniformity lengthwise not met

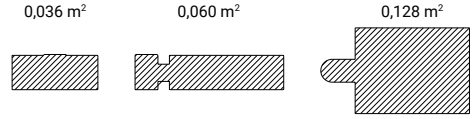
A

BOX

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,5	**-20 ~ +45°C**




COLOMBO
GRUPPO RAINA



GURU TECNO

GURU TECNO



	CE		>70 CRI	>80 CRI	AW AMBER (K)	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695
A++ A+ A	RG 0 EN 62471	6 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE	60.000 h LED LIFETIME L90B10			

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA optics with high optical efficiency. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche in PMMA stampato ad alto rendimento ottico. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Fuente de luz LED. Emisión directa.

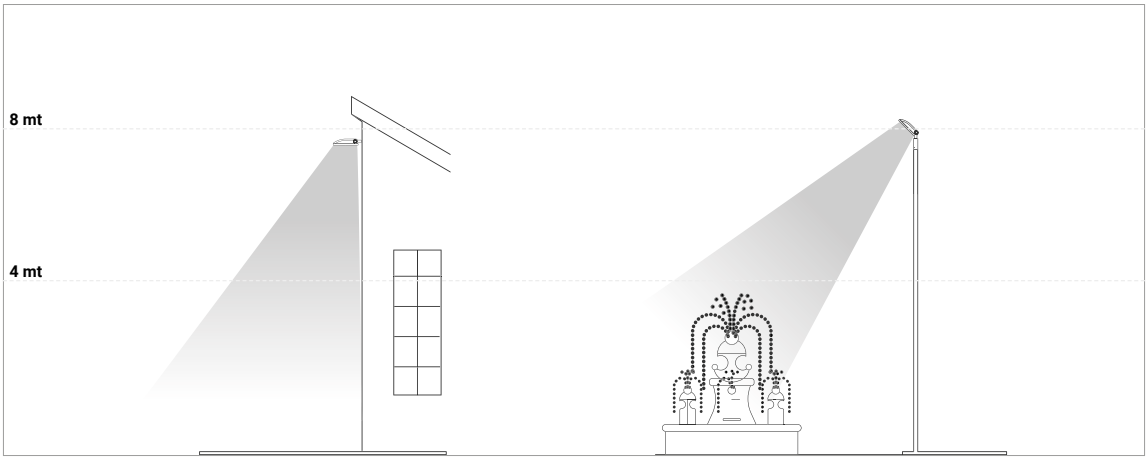
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. LED-Lichtquelle. Direkte Lichtemission.

RU

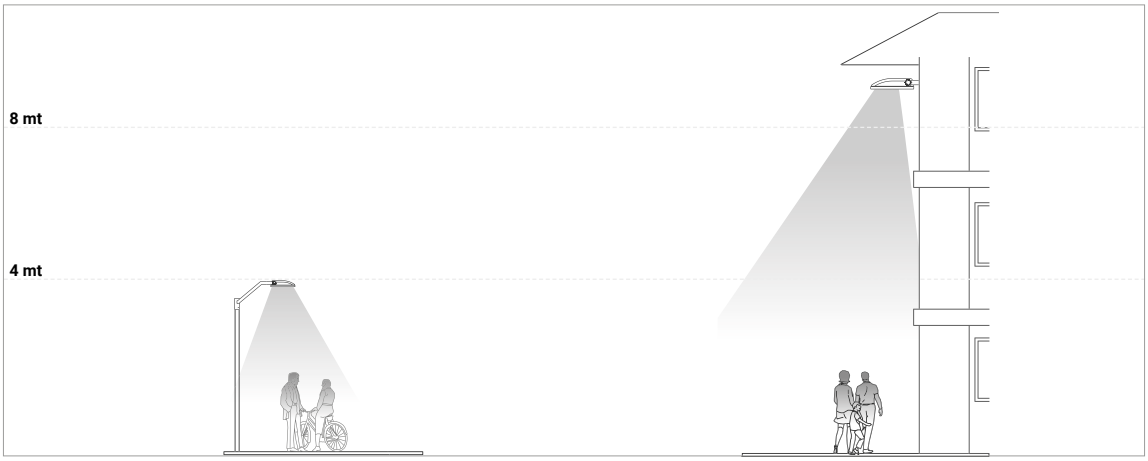
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Оптика из ПММА с высокой оптической эффективностью. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект Светодиодный источник света. Прямой поток света.

GURU TECNO



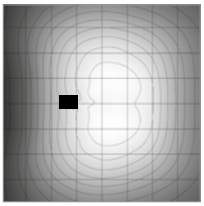
GURU TECNO [AS]

GURU TECNO [C]

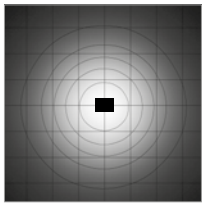


GURU TECNO [CP]

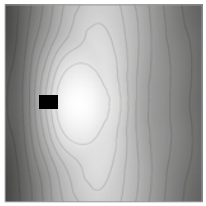
GURU TECNO [ST]



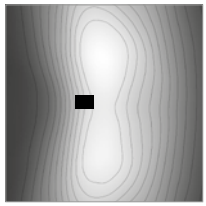
GURU TECNO [AS]



GURU TECNO [C]



GURU TECNO [CP]

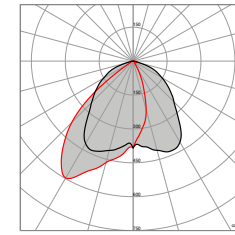


GURU TECNO [ST]

GURU TECNO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410ASN08	10250	8890	79	> 112	JM150
KGT732410ASW08	9750	8460	79	> 107	JM150
KGT832410ASN08	9160	7950	80,5	> 99	MBF250
KGT832410ASW08	8730	7575	80,5	> 94	MBF250
KGT32410ASAW08	7365	6390	80	> 80	SAP100
KGT732405ASN08	5540	4805	37	> 130	JM70
KGT732405ASW08	5240	4545	37	> 123	JM70
KGT832405ASN08	5013	4350	37	> 118	MBF125
KGT832405ASW08	4794	4160	37	> 112	MBF125
KGT32405ASAW08	3735	3240	37	> 87	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

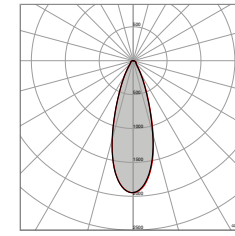
CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

GURU TECNO C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CN08	10250	8952	79	> 113	JM150
KGT732410CW08	9750	8105	79	> 102	JM150
KGT832410CN08	9160	7615	80,5	> 94	MBF250
KGT832410CW08	8730	7260	80,5	> 90	MBF250
KGT32410CAW08	7365	6125	80	> 76	SAP100
KGT732405CN08	5540	4605	37	> 124	JM70
KGT732405CW08	5240	4355	37	> 118	JM70
KGT832405CN08	5013	4170	37	> 113	MBF125
KGT832405CW08	4794	3985	37	> 108	MBF125
KGT32405CAW08	3735	3105	37	> 84	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

Code

Code Ordering example: **KGT732410** **AS** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

GURU TECNO CP

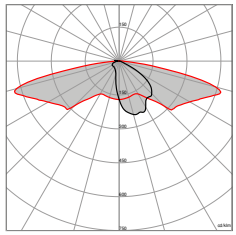


Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CPN08	10250	8750	79	> 111	JM150
KGT732410CPW08	9750	8325	79	> 105	JM150
KGT832410CPN08	9160	7820	80,5	> 97	MBF250
KGT832410CPW08	8730	7455	80,5	> 93	MBF250
KGT32410CPAW08	7365	6290	80	> 79	SAP100
KGT732405CPN08	5540	4730	37	> 128	JM70
KGT732405CPW08	5240	4470	37	> 121	JM70
KGT832405CPN08	5013	4280	37	> 116	MBF125
KGT832405CPW08	4794	4095	37	> 111	MBF125
KGT32405CPAW08	3735	3190	37	> 86	SAP70

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU TECNO ST

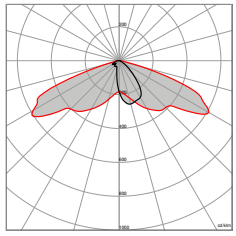


Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410STN08	10250	8050	79	> 102	JM150
KGT732410STW08	9750	7660	79	> 97	JM150
KGT832410STN08	9160	7195	80,5	> 89	MBF250
KGT832410STW08	8730	6860	80,5	> 85	MBF250
KGT32410STAW08	7365	5785	80	> 72	SAP100
KGT732405STN08	5540	4355	37	> 118	JM70
KGT732405STW08	5240	4115	37	> 111	JM70
KGT832405STN08	5013	3940	37	> 106	MBF125
KGT832405STW08	4794	3765	37	> 102	MBF125
KGT32405STAW08	3735	2935	37	> 79	SAP70

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**



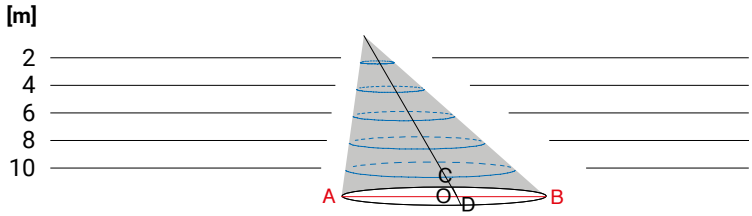
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

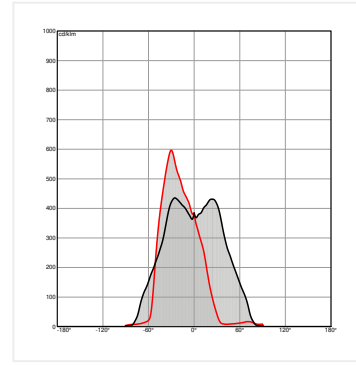
Code

Code Ordering example: **KGT732410** **CP** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

AS [OPTIC]

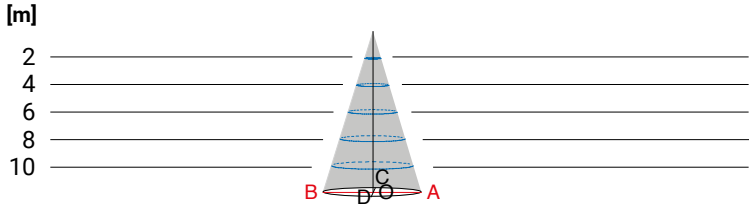


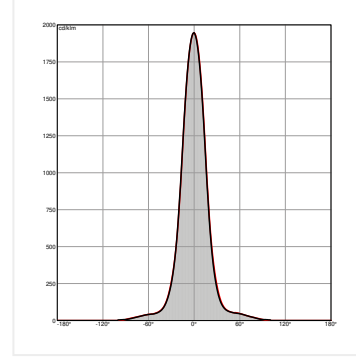


	KGT732410ASN		KGT732410ASW		KGT832410ASN		KGT832410ASW		KGT32410ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	975	495	930	470	870	445	830	420	700	355
4	245	125	235	120	220	110	210	105	175	90
6	110	55	105	52	100	50	95	47	80	40
8	61	55	60	30	55	30	55	25	45	22
10	40	20	37	19	35	18	35	17	30	15

	KGT732405ASN		KGT732405ASW		KGT832405ASN		KGT832405ASW		KGT32405ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	530	270	500	255	475	242	455	230	355	180
4	135	70	125	65	120	60	115	58	90	45
6	60	30	55	28	53	27	51	26	40	20
8	33	17	31	16	30	15	28	14	22	11
10	21	11	20	10	19	10	18	9	14	7

C [OPTIC]

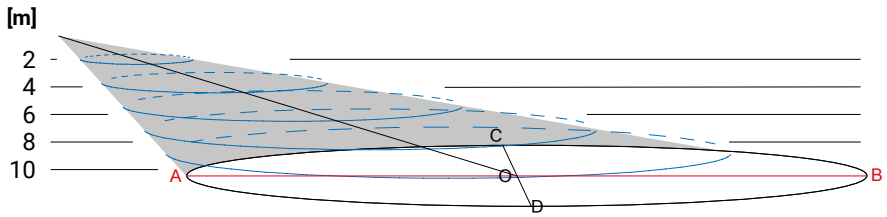


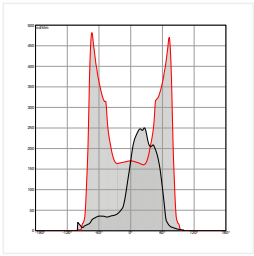


	KGT732410CN		KGT732410CW		KGT832410CN		KGT832410CW		KGT32410CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	4150	2540	3950	1420	3710	2270	3540	2170	2985	1825
4	1040	640	990	605	930	570	885	540	750	460
6	465	285	440	270	415	255	400	240	335	205
8	260	160	250	150	235	145	225	135	190	115
10	166	105	160	100	150	95	140	90	120	73

	KGT732405CN		KGT732405CW		KGT832405CN		KGT832405CW		KGT32405CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	2245	1375	2125	1300	2035	1245	1940	1185	1520	930
4	565	345	530	325	510	310	485	300	380	235
6	250	155	240	145	230	140	220	135	170	105
8	140	90	135	85	130	80	120	75	95	60
10	90	55	85	55	80	50	78	47	60	40

CP [OPTIC]

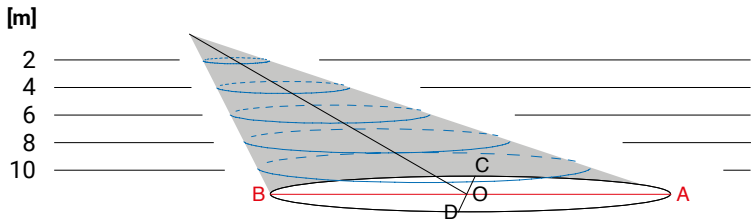


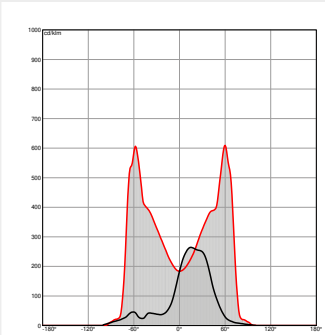


	KGT732410CPN		KGT732410CPW		KGT832410CPN		KGT832410CPW		KGT32410CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	375	35	355	35	335	31	320	30	270	25
4	95	10	90	9	85	8	80	7	70	6
6	45	5	40	5	37	3	35	3	30	3
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

	KGT732405CPN		KGT732405CPW		KGT832405CPN		KGT832405CPW		KGT32405CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	200	20	190	18	182	17	174	16	135	13
4	50	5	47	4	45	4	43	4	34	3
6	22	2	21	2	20	2	19	2	-	-
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

ST [OPTIC]



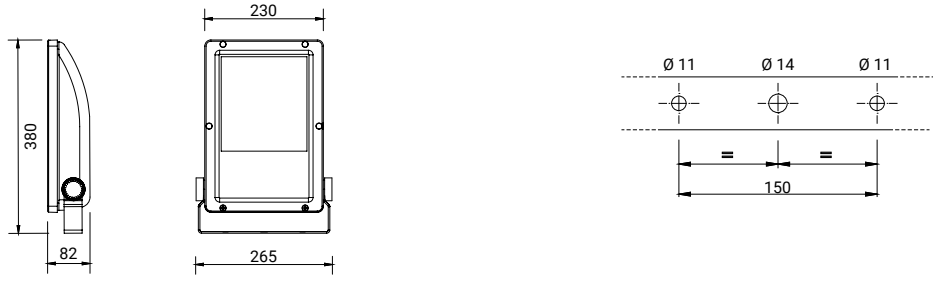


	KGT732410STN		KGT732410STW		KGT832410STN		KGT832410STW		KGT32410STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	500	125	480	120	450	110	430	105	360	88
4	125	31	120	30	115	27	110	26	90	22
6	60	15	55	13	50	12	47	12	40	10
8	31	8	30	7	28	7	27	7	22	5
10	20	5	19	5	18	4	17	4	14	4

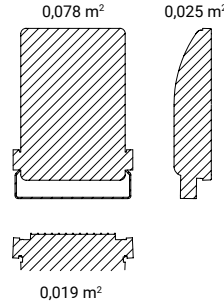
	KGT732405STN		KGT732405STW		KGT832405STN		KGT832405STW		KGT32405STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	270	66	260	62	245	60	234	57	185	45
4	70	17	65	16	60	15	59	14	46	11
6	30	7	30	7	27	7	26	6	20	5
8	17	4	16	4	15	4	15	4	-	-
10	-	-	-	-	-	-	-	-	-	-

GURU TECNO

DIMENSIONAL + FIXTING



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)





BROWNIE

BROWNIE



>80 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 09 EN 60068 | 850° EN 60695 | A++ A+ A | RG 0 EN 62471

6 Kv | 08 BLACK METALLIZED | 5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | ES ON/OFF

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head Brownie 0 and D - 76 mm, diameter Brownie T and R). LED light source. Direct light emissione.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm Brownie O e D - diametro 76 Brownie T e R). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre pour Brownie O e D - 76 mm de diamètre pour Brownie T er R). Source lumineuse LED. Emission directe.

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste Brownie O y D - 76 mm de diámetro Brownie T y R). Fuente de luz LED. Emisión directa.

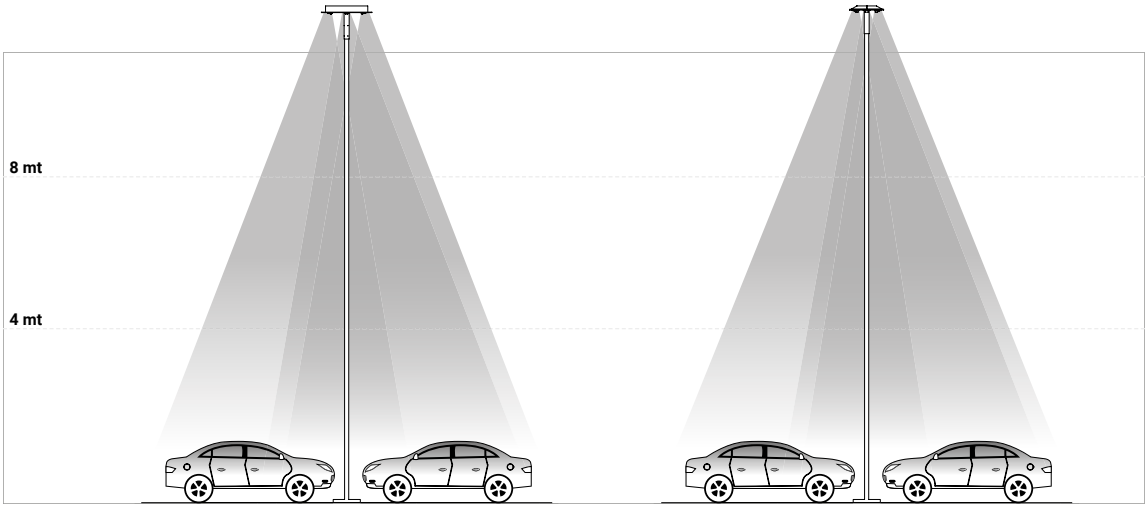
DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm Brownie O und D - durchmesser 76 mm Brownie T und R). LED-Lichtquelle. Direkte Lichtemission.

RU

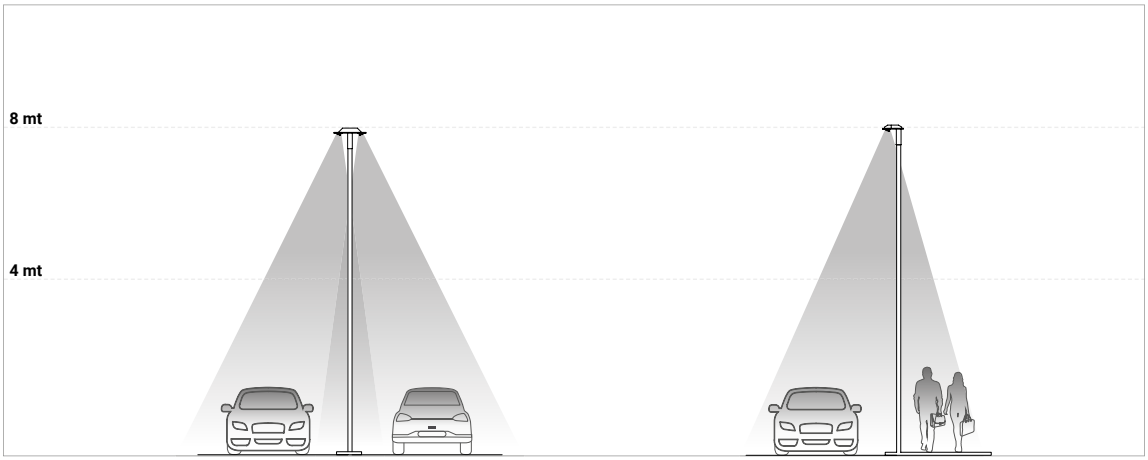
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

BROWNIE



BROWNIE T

BROWNIE R



BROWNIE D

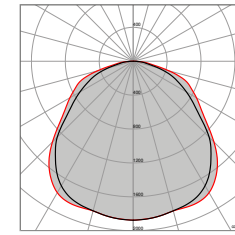
BROWNIE O

BROWNIE R



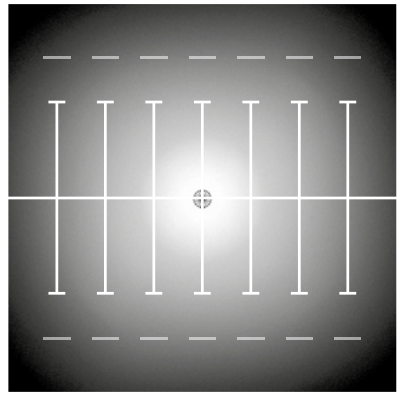
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWR46009W/N**08**	30400	24312	201	> 121	4xSAP100
KBRWR46014W/N**08**	45520	36413	323	> 113	4xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

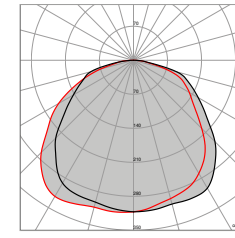


BROWNIE T



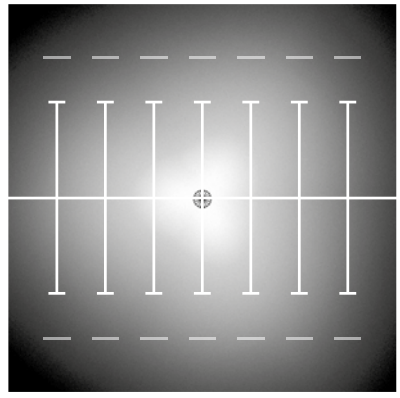
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWT36009W/N**08**	22800	18235	151	> 121	3xSAP100
KBRWT36014W/N**08**	34140	27310	242,5	> 113	3xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

Code Ordering example: **KBRWR46009** W/N **08**

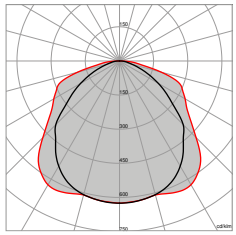
- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWR46009**: Product Code: **KBRWR46009**

BROWNIE D



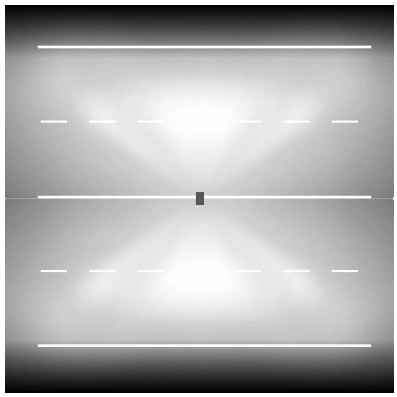
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWD26009W/N**08**	15200	12156	100,5	> 121	2xSAP100
KBRWD26014W/N**08**	24300	18160	160,5	> 113	2xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

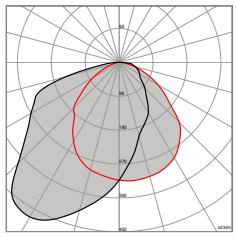


BROWNIE O



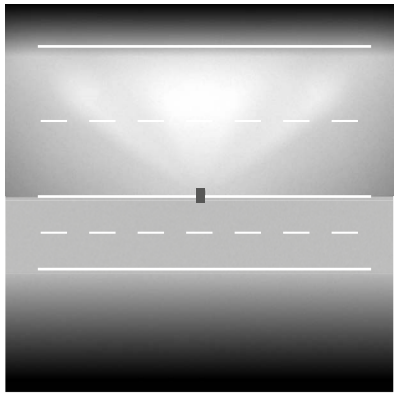
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWO16009W/N**08**	7600	6078	50	> 122	1xSAP100
KBRWO16014W/N**08**	12150	9080	80,5	> 113	1xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

Code Ordering example: **KBRWD26009** W/N **08**

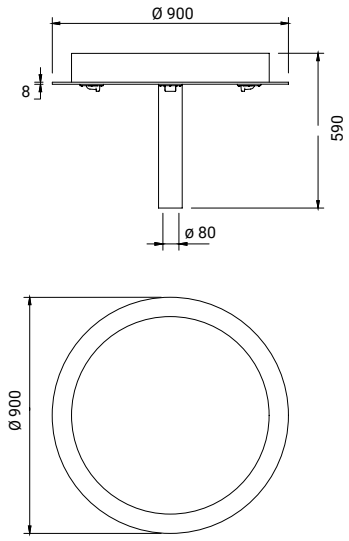
- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWD26009**: Product Code: **KBRWD26009**

A

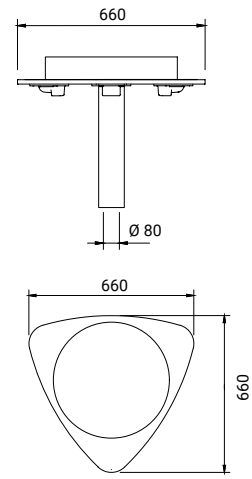
BROWNIE R-T

DIMENSIONAL

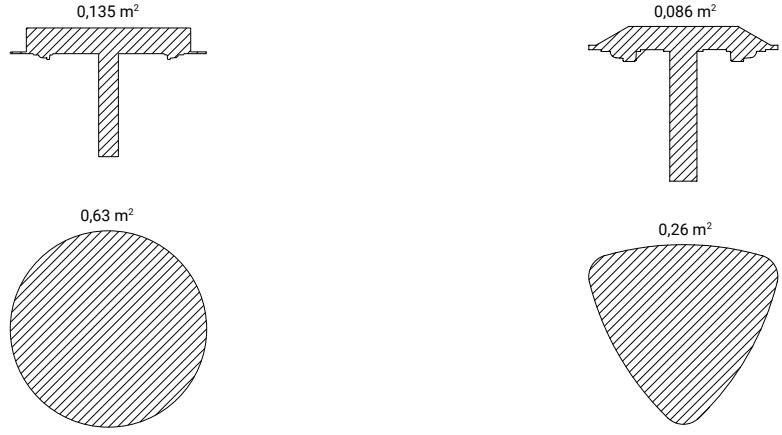
BROWNIE R



BROWNIE T



WIND RESISTANCE



WEIGHT (Kg)

BROWNIE R: **22,0** - BROWNIE T: **16,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE R - T: **-20 ~ +45°C**

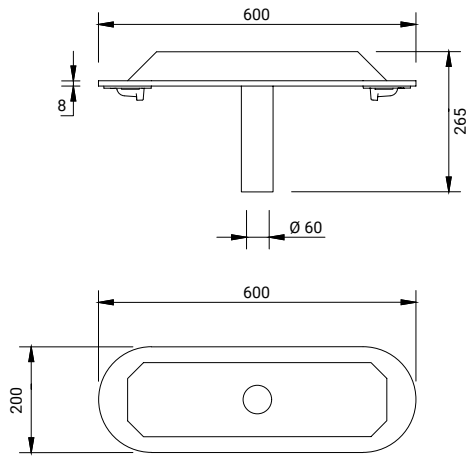
ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

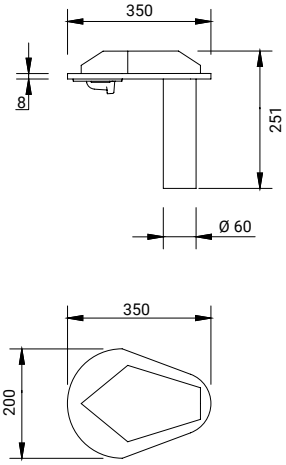
BROWNIE D-O

DIMENSIONAL

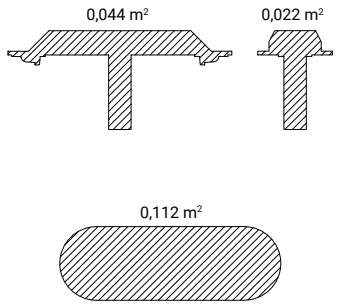
BROWNIE D

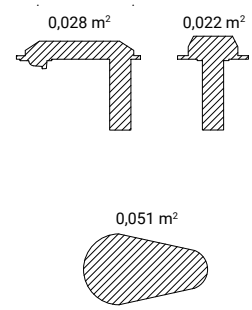


BROWNIE O



WIND RESISTANCE





WEIGHT (Kg)

BROWNIE D: **11,0** - BROWNIE O: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE D - O: **-20 ~ +45°C**

ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность





ZODIAC

ZODIAC



>70 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 08 EN 60068 | 850° EN 60695 | A++ A+ A

RG 0 EN 62471 | 10 Kv | 08 BLACK METALLIZED | NTC TEMPERATURE CONTROL | 5Y WARRANTY 5% FAILURE RATE | 100.000 h LED LIFETIME L90B10 | ES ON/OFF | FP PROGRAM

On request

EN

Shaped aluminum body, by sheet turning, painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio sagomato, mediante tornitura in lastra, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, mis en forme par la méthode du filage , peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio conformado, mediante torneado en la chapa, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Con cable de salida L=40 (cm), conector no incluido. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

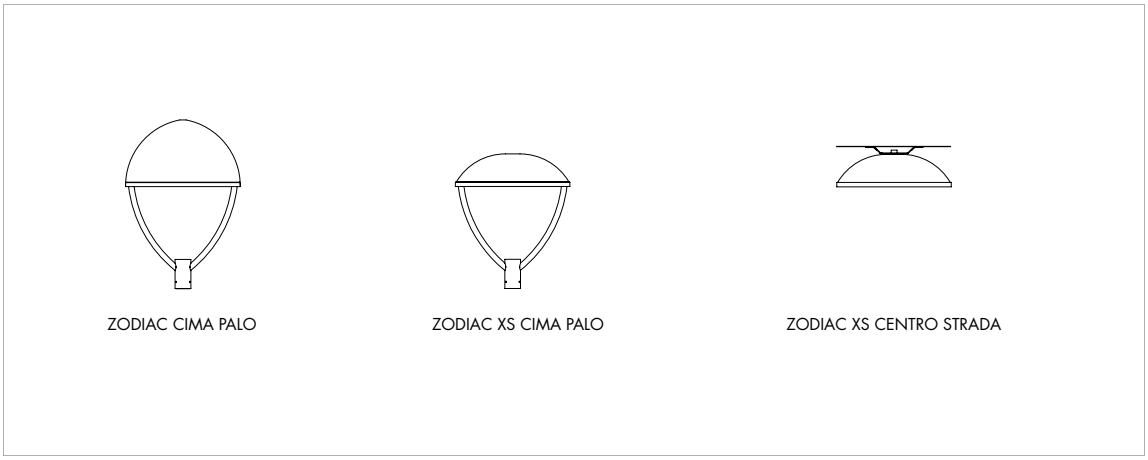
DE

Körper aus geformtem Aluminium, durch Drehen der Platte, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

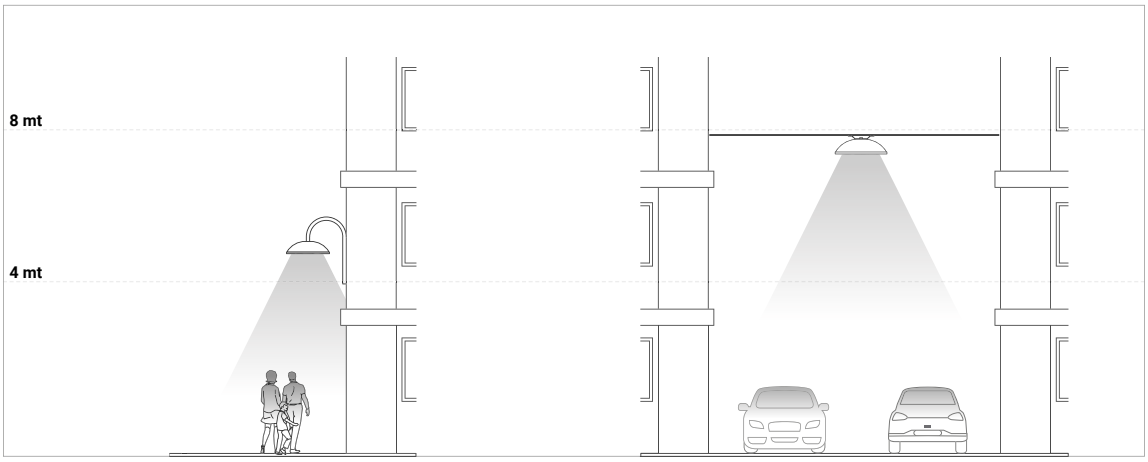
RU

Корпус из формированного алюминия, методом точения из листового материала, окрашеного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

ZODIAC


ZODIAC CIMA PALO
ZODIAC XS CIMA PALO
ZODIAC XS CENTRO STRADA


8 mt
4 mt

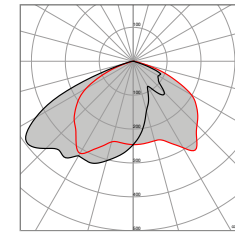

8 mt
4 mt

ZODIAC CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



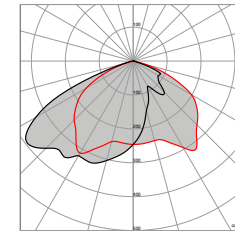
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

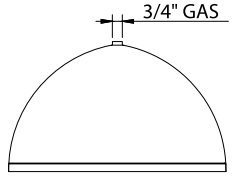
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

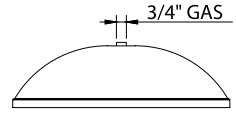
Code

Code Ordering example: **ZDC0803** W/N **AS1** ES/FP **08**

- **08**: Product colour: **08** Black Metalizzed
- ES/FP: Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- AS1: Optic type
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **ZDC0803**: Product Code: **ZDC0803**

On request



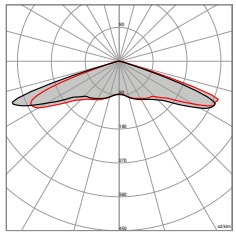


ZODIAC CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



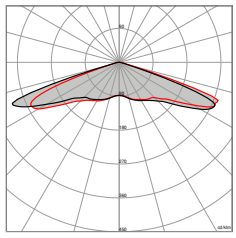
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

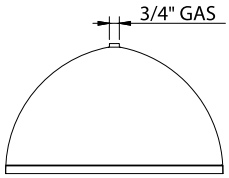
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

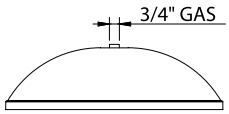
Code

Code Ordering example: **ZDC0803** W/N **RS2** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDC0803**

On request



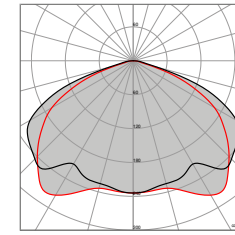


ZODIAC XS CS 1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



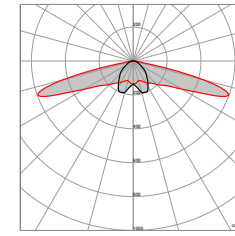
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CS 2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

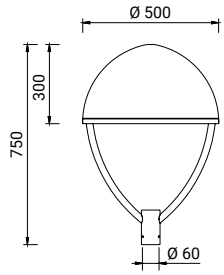
Code Ordering example: ZDCXCS0803 W/N **CS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDCXCS0803**

ZODIAC

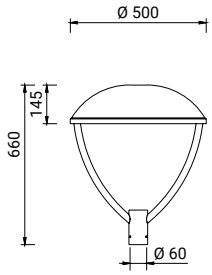
DIMENSIONAL

ZODIAC CIMA PALO



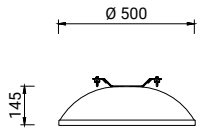
DIMENSIONAL

ZODIAX XS CIMA PALO



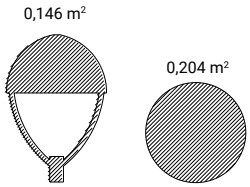
DIMENSIONAL

ZODIAC XS CENTRO STRADA

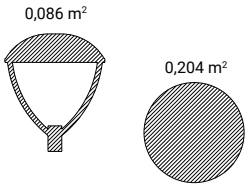


WIND RESISTANCE

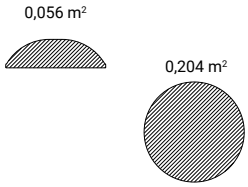
ZODIAC CIMA PALO



ZODIAC XS CIMA PALO



ZODIAC XS CENTRO STRADA



WEIGHT (Kg)

ZODIAC CIMA PALO: **7,5**
ZODIAC CIMA PALO XS: **6,5**
ZODIAC XS CENTRO STRADA: **5,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ZODIAC CIMA PALO - ZODIAC CIMA PALO XS
ZODIAC XS CENTRO STRADA :

-20 ~ +45°C





MARKUS

MARKUS XL



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
6 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		ES ON/OFF			

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Complete with outgoing cable L40 (cm), connector not included. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido Difusor de policarbonado opal. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XL



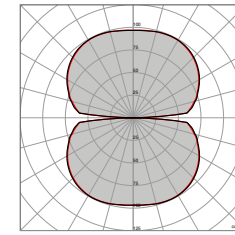


MARKUS XL A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLA1W/N**08**	6000	3150	47	> 67
KMRLA2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



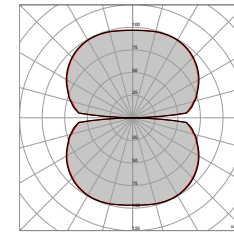
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLB1W/N**08**	6000	3150	47	> 67
KMRLB2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



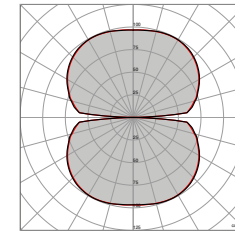
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLC1W/N**08**	9000	4725	70,5	> 67
KMRLC2W/N**08**	18000	9450	141	> 67

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

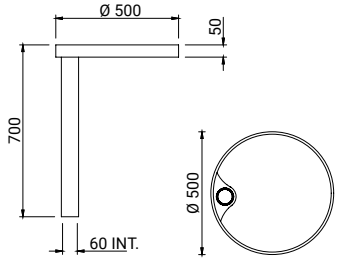
Code Ordering example: **KMRLA1** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMRLA1**

MARKUS XL

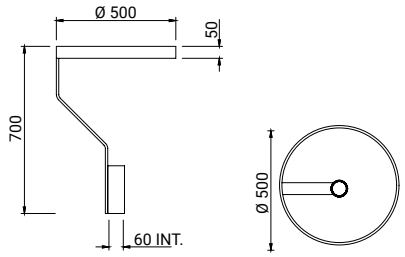
DIMENSIONAL

MARKUS XL A



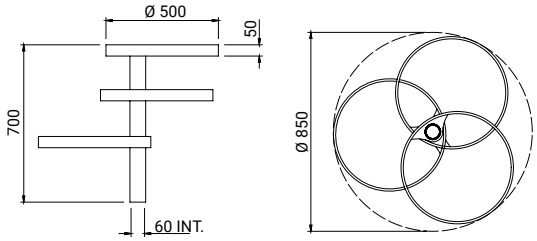
DIMENSIONAL

MARKUS XL B



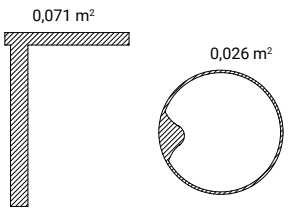
DIMENSIONAL

MARKUS XL C

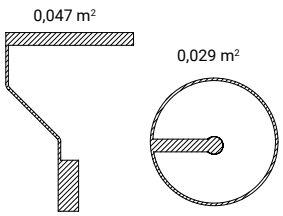


WIND RESISTANCE

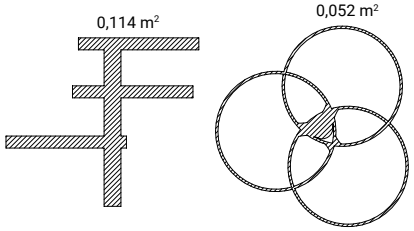
MARKUS XL A



MARKUS XL B



MARKUS XL C



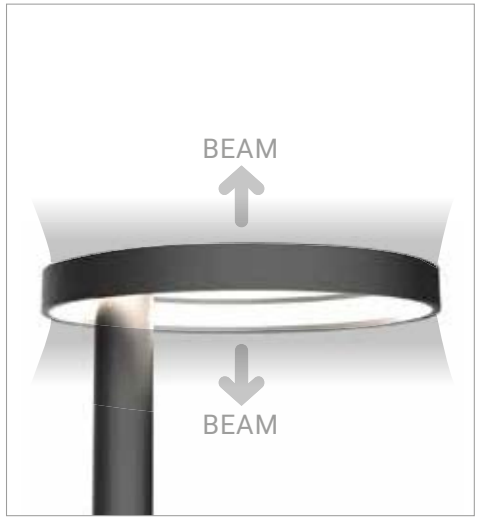
WEIGHT (Kg)

MARKUS XL A: **5,0**
MARKUS XL B: **5,5**
MARKUS XL C: **6,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

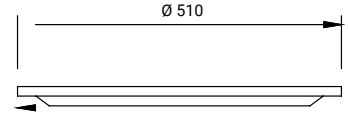
MARKUS XL A - B - C: **-20 ~ +45°C**

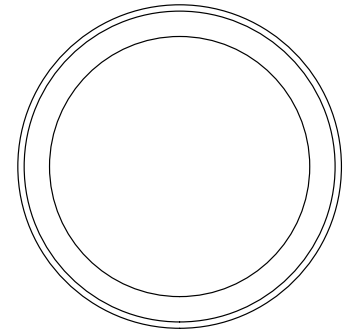
MARKUS XL



MARKUS XL “standard version”







KTMK500

KTMK500

Anti-pollution reflector - Riflettore per antinquinamento luminoso - Réflecteur anti-pollution - Reflector anti-contaminación - Anti-Verschmutzungsreflektor - Отражатель от загрязнения.







MALED

MALED



		CE		>70 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 08 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Complete with outgoing cable L40 (cm), connector not included. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento.Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

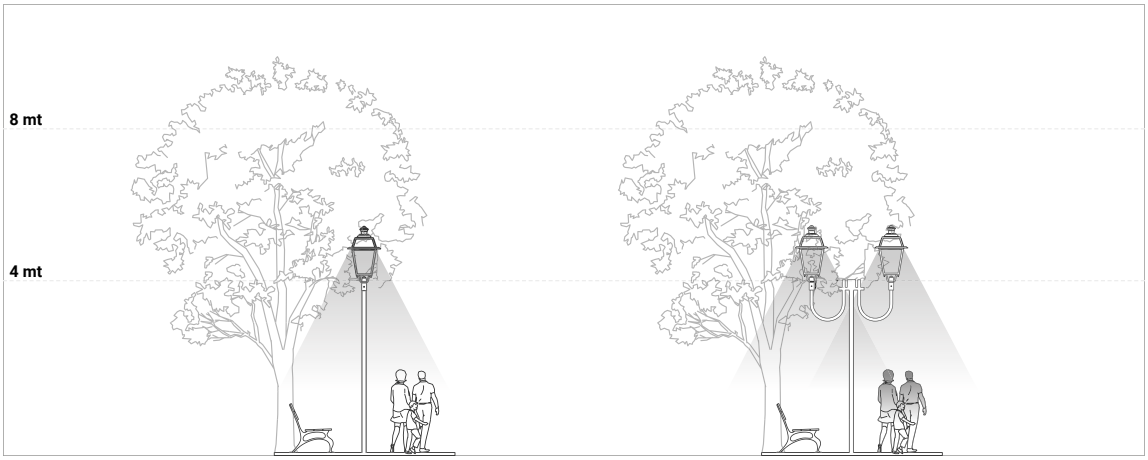
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

MALED



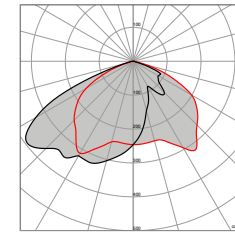


MALED AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



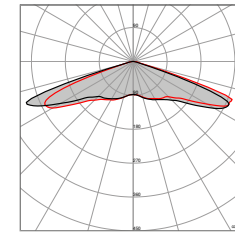
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MALED RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

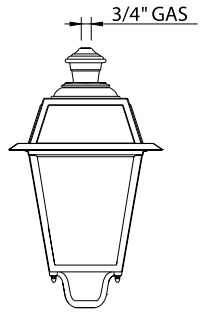
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **MAL0803** W/N **AS1** ES/FP **08**

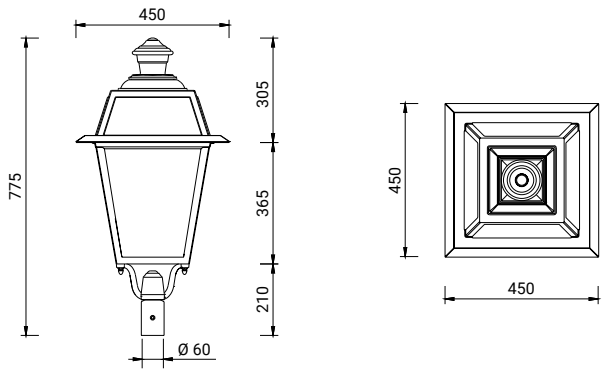
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **MAL0803**

On request

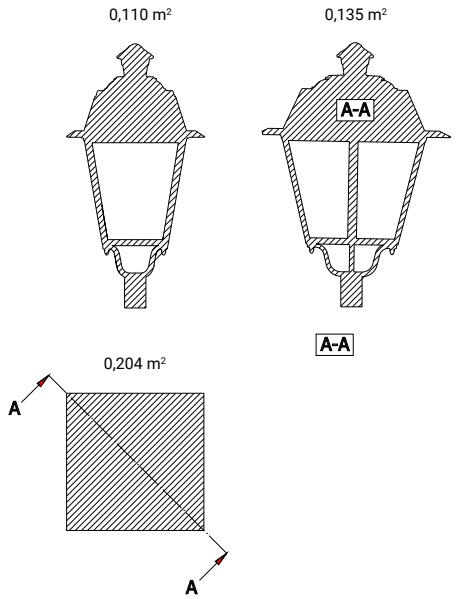


MALED

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
8,0	**-20 ~ +45°C**

Functionalities available on request

FP PROGRAM

A

DALI PROGRAM

EN

DALI DIMM
Dimmable with DALI protocol.

IT

DALI DIMM
Dimmerabile con protocollo DALI

FR

DALI DIMM
Pilotage intelligent gradation (dimming) protocole DALI.

ES

DALI DIMM
Regulable con protocolo DALI.

DE

DALI DIMM
Dimmbar mit DALI-Protokoll.

RU

DALI DIMM
Регулируемая мощность DALI.

AD PROGRAM

EN

TRACKING VOLTAGE
Dimmable by changing the supply voltage; admissible voltage range: 170V-250V.

IT

INSEGUITORE TENSIONE DI INPUT POWER
Dimmerabile variando la tensione di alimentazione; intervallo di tensioni ammesse: 170V-250V.

FR

RÉGULATEUR DE TENSION
variable suivant le voltage ; intervalle compris entre 170V / 250V.

ES

SEGUIDOR DE TENSIONES
Regulable cambiando la tensión de alimentación; rango de voltaje admisible: 170V-250V.

DE

TRACKING VOLTAGE
Dimmbar durch Änderung der Versorgungsspannung; zulässiger Spannungsbereich: 170V-250V.

RU

ТРЕКЕР НАПРЯЖЕНИЯ
Регулируемый путем изменения напряжения питания; допустимый диапазон напряжения: 170 - 250 V.

VM5 PROGRAM

EN

VIRTUAL MIDNIGHT - (5 STEP)
Possibility to program the luminaires so that they automatically recognize the solar midnight setting light dimming levels (up to 5 levels).

IT

MEZZANOTTE VIRTUALE - (5 STEP)
Possibilità di programmare gli apparecchi in modo che riconoscano automaticamente la mezzanotte solare impostando così livelli di dimmerazione della luce (5 livelli) al fine di ridurre gli sprechi durante le ore notturne garantendo comunque un livello minimo di illuminazione di sicurezza.

FR

MINUIT VIRTUEL (5 niveaux)
Possibilité de programmer les appareils de façon à reconnaître automatiquement minuit solaire réglant ainsi des niveaux de gradation de lumière (jusqu'à 5 niveaux).

ES

MEDIANOCHE VIRTUAL (5 NIVELES)
Posibilidad de programar las luminarias regulando el flujo de luz para el ahorro energetico (hasta 5 niveles).

DE

VIRTUELLE MITTERNACHT - (5 SCHRITTE)
Möglichkeit, die Leuchten so zu programmieren, so daß sie die mitternachtssolaren Helligkeitsstufen (bis zu 5 Stufen) automatisch erkennen.

RU

ВИРТУАЛЬНАЯ ПОЛНОЧЬ (5 шагов)
Возможность запрограммировать светильники так, чтобы они автоматически распознавали виртуальную полночь, настраивая таким образом установки уровня яркости света (до 5 уровней).

LS PROGRAM

EN

LINE SWITCH
Two function levels can be selected by wiring only one additional cable with one control phase. By switching the phase "ON" the fitting works at 100% of the allowed power, by switching it "OFF" the fitting works at the default power.

IT

FASI DI COMANDO
Possibilità di definire due livelli di funzionamento che possono essere selezionati cablando un solo cavo aggiuntivo con una fase di comando; con fase aggiuntiva ON l'apparecchio funziona al 100% della potenza permessa, con fase aggiuntiva OFF l'apparecchio si setta sul valore pre-impostato.

FR

GRADATION A COUPURE DE PHASE
Possibilité de définir 2 niveaux de gradation par coupure de phase pilotée par DALI en câblant un seul câble supplémentaire avec une phase de commande ; avec la phase supplémentaire ON l'appareil fonctionne à 100% de la puissance permise, avec la phase supplémentaire OFF l'appareil se règle sur la valeur programmée.

ES

FASE DE MANDO
Posibilidad de definir dos niveles operativos que se pueden seleccionar al cablear un solo cable adicional con una fase de comando; con la fase adicional ENCENDIDO (ON), la luminaria funciona al 100% de la potencia permitida, y con la fase adicional DESACTIVADA (OFF), la luminaria se establece en el valor preestablecido.

DE

BEFEHLSPHASE
Möglichkeit der Definition von zwei Betriebsebenen, die durch Verdrahtung eines zusätzlichen Kabels mit einer Befehlsphase ausgewählt werden können; Wenn die zusätzliche Phase eingeschaltet ist, wird das Gerät mit 100% der zulässigen Leistung betrieben. Wenn die zusätzliche Phase ausgeschaltet ist, wird das Gerät auf den voreingestellten Wert eingestellt.

RU

КОМАНДНАЯ ФАЗА
Возможность определения двух рабочих уровней, которые можно выбрать, подключив один дополнительный кабель с командной фазой; при включенной дополнительной фазе (ON) прибор работает на 100% разрешенной мощности, при выключенной дополнительной фазе (OFF) прибор устанавливается на предварительно установленное значение.

Functionalities available on request

FP PROGRAM

CLO PROGRAM

EN

CONSTANT LUMEN OUT
Due to its own characteristics the LED chip have long life expectations compared to conventional lamps. However they gradually reduce the quantity of the light output during aging until they completely finish their lifetime. In particular working conditions it is possible to use this function in order to guarantee a constant light output by increasing the current drive of the chip LED.Consequently there will be a higher consumptions and the illumination values of the interested area will not change over the time. EASY PROG. version works with the linear increase.

IT

ILLUMINAMENTO COSTANTE
I chip led per loro natura hanno aspettative di vita elevate rispetto ad una lampada convenzionale; durante l'invecchiamento però tendono ad esaurire gradualmente la quantità di luce emessa fino ad esaurirsi a termine della loro vita; in particolari condizioni d'impiego è possibile utilizzare questa funzione al fine di garantire un'emissione luminosa costante nel tempo incrementando la corrente di pilotaggio del chip LED. Ciò vuol dire che si avrà un incremento dei consumi ma è possibile garantire che i valori di illuminamento dell'area interessata non avranno variazioni nel tempo. Versione EASY PROG. Funzionante con incremento lineare.

FR

ILLUMINATION CONSTANTE
Le led par nature a une durée de vie plus élevée en le comparant à une ampoule traditionnelle ; Cependant durant sa vie la quantité de lumière émise tend à baisser graduellement jusqu'à s'éteindre à la fin de son cycle de vie ; dans des conditions particulières d'installations il est possible d'utiliser cette fonction pour garantir une émission lumineuse constante à travers le temps en augmentant le courant pilote du circuit du led. Ceci signifie que l'on aura une consommation majeure mais il est possible de garantir les valeurs des flux lumineux de la zone intéressée sans subir de variations dans le temps.

ES

ILUMINACIÓN CONSTANTE
Los diodos de LED por su naturaleza tienen una alta expectativa de vida en comparación con una lámpara convencional; durante el envejecimiento, sin embargo, tienden a agotar gradualmente la cantidad de luz emitida hasta que se agotan al final de su vida; En condiciones particulares de uso, es posible utilizar esta función a fin de garantizar una emisión de luz constante a lo largo del tiempo, aumentando la corriente de conducción del diodo LED. Esto significa que habrá un aumento del consumo, pero es posible garantizar que los valores de iluminación del espacio en cuestión no sufra variación con el tiempo;

DE

KONSTANTE BELEUCHTUNG
LED-Chips haben von Natur aus eine hohe Lebenserwartung im Vergleich zu einer herkömmlichen Lampe; während des Alterns neigen sie jedoch dazu, die emittierte Lichtmenge allmählich zu verbrauchen, bis sie am Ende ihres Lebens verbraucht sind. Unter bestimmten Einsatzbedingungen ist es möglich, diese Funktion zu nutzen, um eine konstante Lichtemission über die Zeit zu gewährleisten und den Ansteuerstrom des LED-Chips zu erhöhen. Dies bedeutet, dass der Verbrauch zunehmen wird, es kann jedoch gewährleistet werden, dass sich die Beleuchtungswerte des betreffenden Gebiets im Laufe der Zeit nicht ändern.

RU

ПОСТОЯННОЕ ОСВЕЩЕНИЕ
Светодиодные чипы по своей природе имеют большую продолжительность жизни по сравнению с обычной лампой; однако во время старения они имеют тенденцию постепенно снижать эффективность излучаемового света до их полного истощения; в определенных условиях использования можно использовать эту функцию, чтобы гарантировать постоянное излучение света с течением времени, увеличивая ток возбуждения светодиодного чипа. Это означает, что будет увеличение потребления электроенергии, но также можно гарантировать, что уровень освещенности соответствующей области не изменится со временем.

FVL PROGRAM

EN

END OF LED LIFE
The LED module will still be functioning after the guaranteed working hours however the light output will be lower than the entered values. The FVL function works by the activation of a counter, which will make the luminaire blinking for the first seconds after the switch on after reaching the limit of working operation.

IT

FINE VITA LED
Al superamento delle ore di funzionamento garantite, il modulo led continuerà a funzionare ma l'emissione luminosa sarà inferiore rispetto ai valori previsti. Con questa funzione è possibile attivare un contatore che, raggiunto il limite di ore di funzionamento, farà lampeggiare l'apparecchio di illuminazione per i primi secondi di funzionamento all'accensione.

FR

FIN DE VIE DU LED
Au-delà des heures de fonctionnement garanties, le module led continue à fonctionner mais l'émission lumineuse sera inférieure comparée aux valeurs initiales. Grâce à cette fonction il est possible d'activer un compteur qui, une fois la limite d'heures de fonctionnement atteinte, fera clignoter l'appareil d'illumination pendant quelques secondes au moment d'allumer.

ES

FINAL DE VIDA ÚTIL DEL LED
Cuando se exceden las horas de funcionamiento garantizadas, el módulo LED continuará funcionando pero la emisión de luz será inferior a los valores previstos. Con esta función es posible activar un contador que, una vez alcanzado el límite de horas de funcionamiento, hará que el dispositivo de iluminación parpadee durante los primeros segundos del encendido.

DE

LED LEBENSENDE
Wenn die garantierten Betriebsstunden überschritten werden, arbeitet das LED-Modul weiter, aber die Lichtleistung liegt unter den erwarteten Werten. Mit dieser Funktion ist es möglich, einen Zähler zu aktivieren, der bei Erreichen der Betriebsstundenzahl das Leuchten beim Einschalten für die ersten Sekunden des Betriebs zum Blinken bringt.

RU

Конец светодиодной жизни
После превышения гарантированных рабочих часов, светодиодный модуль продолжит работу, но светоотдача будет ниже ожидаемых параметров. С помощью этой функции можно активировать счетчик, который, при достижении предела рабочих часов заставит осветительный прибор мигать в течение первых секунд работы при включении питания.

AST PROGRAM

EN

ADJUSTABLE START UP TIME
This function allows to obtain a gradual start of the light fitting in a time between 1 and 30 seconds.

IT

REGOLAZIONE PERIODO DI ACCENSIONE
Questa funzione consente di ottenere un'accensione graduale del proiettore con un tempo compreso tra 1 e 30 secondi.

FR

RÉGLAGE PÉRIODE D'ALLUMAGE
Cette fonction permet d'obtenir un allumage graduel du projecteur dans un intervalle compris entre 1 et 30 secondes.

ES

REGULACIÓN DEL TIEMPO DE ENCENDIDO
Esta función permite un encendido gradual del proyector en un tiempo de entre 1 y 30 segundos.

DE

EINSTELLZEIT DER ZÜNDUNG
Diese Funktion ermöglicht ein schrittweises Einschalten des Projektors mit einer Zeit zwischen 1 und 30 Sekunden.

RU

РЕГУЛИРОВКА ВРЕМЕНИ ВКЛЮЧЕНИЯ
Эта функция позволяет включать светильник постепенно, с интервалом временем от 1 до 30 секунд.





Kit RETROFIT





		CE		>80 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 06 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	6 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM	

On request

EN

Universal optic group for energy efficiency of existing street furniture. Steel sheet support painted with epoxy powders after phosphating. Extruded anodized aluminum body with heat-sink function. Molded PMMA street optics with high optical efficiency. LED light source. Direct light emission.

IT

Gruppo ottico universale per l'efficientamento energetico di lampioni ornamentali esistenti. Supporto in lamiera d'acciaio verniciato con polveri epossidiche previa fosfarazione. Corpo in alluminio estruso anodizzato con funzione di dissipatore. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Sorgente luminosa LED. Emissione diretta.

FR

Unité optique universelle pour l'efficacité énergétique des lampadaires ornementaux existans. Support en tole d'aceir, peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Source lumineuse LED Emission directe.

ES

Grupo óptico universal para el efficientamento energético del alumbrado publico existente. Soporte de chapa de acero barnizada con polvo epoxi previamente fosfatado. Cuerpo en aluminio extruido anodizado con función de disipador. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Fuente de luz LED. Emisión directa

DE

Universale optische Gruppe fur die Energieeffizienz bestehender dekorativer StraSSenlaternen. Trager aus Stahlblech, das nach der Phosphatierung mit Epoxidpulvern beschichtet wurde. Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. LED-Lichtquelle. Direkte Lichtemission.

RU

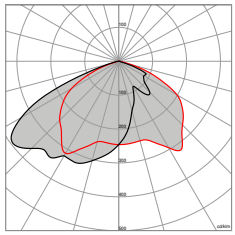
Универсальный оптический блок для энергоэффективности существующих декоративных уличных фонарей. Опора из стального листа, окрашенного эпоксидными красками-порошками после фосфатирования. Анодированный экструдированный алюминиевый корпус с функцией радиатора. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

KIT RETROFIT AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



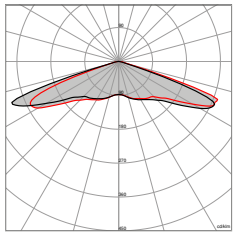
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

KIT RETROFIT RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI

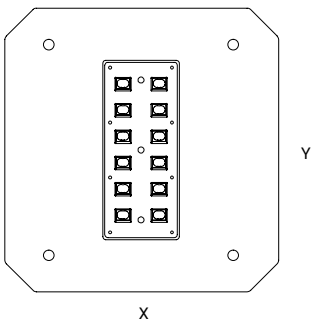


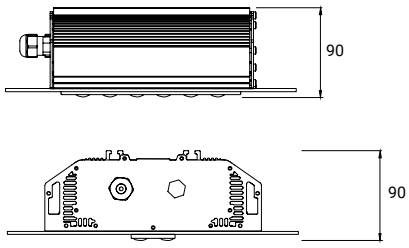
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Mechanical Features

KIT RETROFIT

DIMENSIONAL





X - Y (info):
Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

WEIGHT (Kg)

4,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C



GRUPPO RAINA
L'unione fa la luce.

BOLLARD



B
073

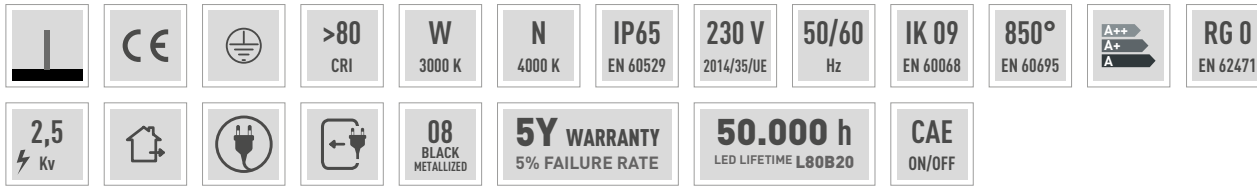

GRUPPO RAINA
L'unione fa la luce



CALIPSO

CALIPSO





EN

Extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe.

ES

Cuerpo de aluminio extruido. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

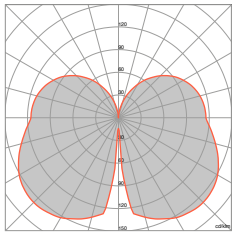
Корпус из экструдированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CALIPSO



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCL06W/N**08**	3000	1550	24	> 63	600 mm
KCL09W/N**08**	4500	2250	36	> 63	900 mm
KCL12W/N**08**	6000	3000	48	> 63	1200 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

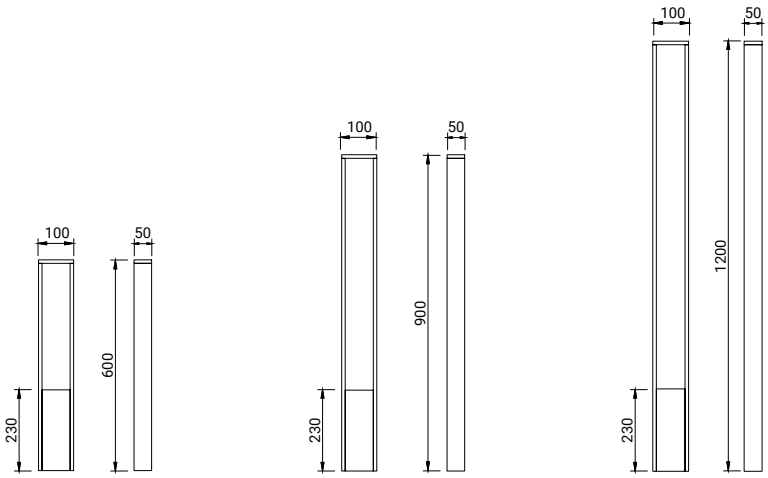
Code

Code Ordering example: **KCL06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCL06**

Mechanical Features

DIMENSIONAL



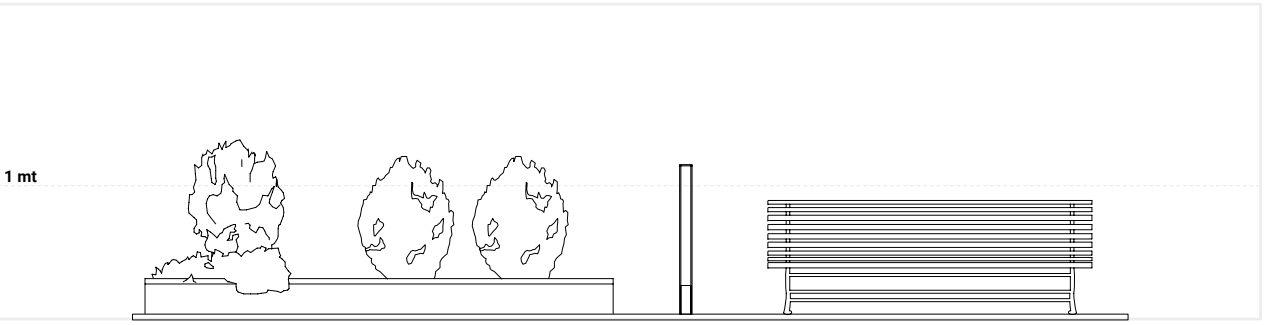
WEIGHT (Kg)

CALIPSO 600: **3,0** - CALIPSO 900: **3,5** - CALIPSO 1200: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





GRUPPO RAINA
L'unione fa la luce.





DOMINORE

DOMINORE



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

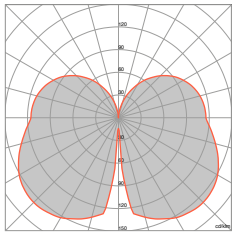
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

DOMINORE



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KDM06W/N**08**	3125	1562	25	> 63	625 mm
KDM09W/N**08**	4500	2250	36	> 63	925 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

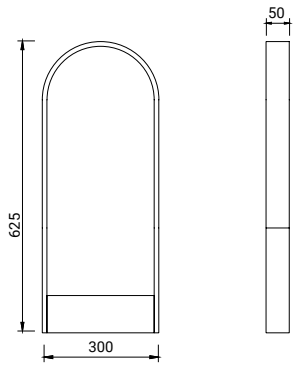
Code

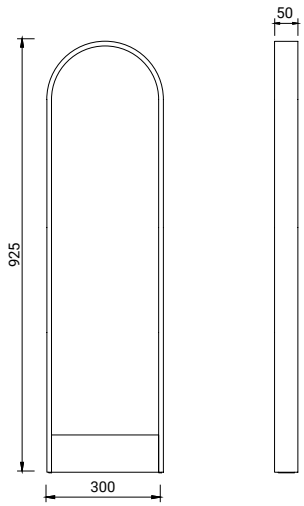
Code Ordering example: **KDM06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KDM06**

Mechanical Features

DIMENSIONAL





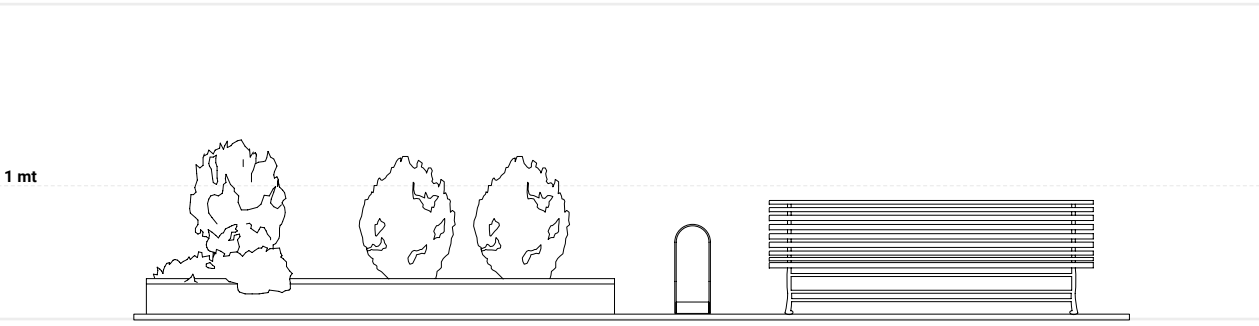
WEIGHT (Kg)

DOMINORE 625: **4,5** - DOMINORE 925: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications



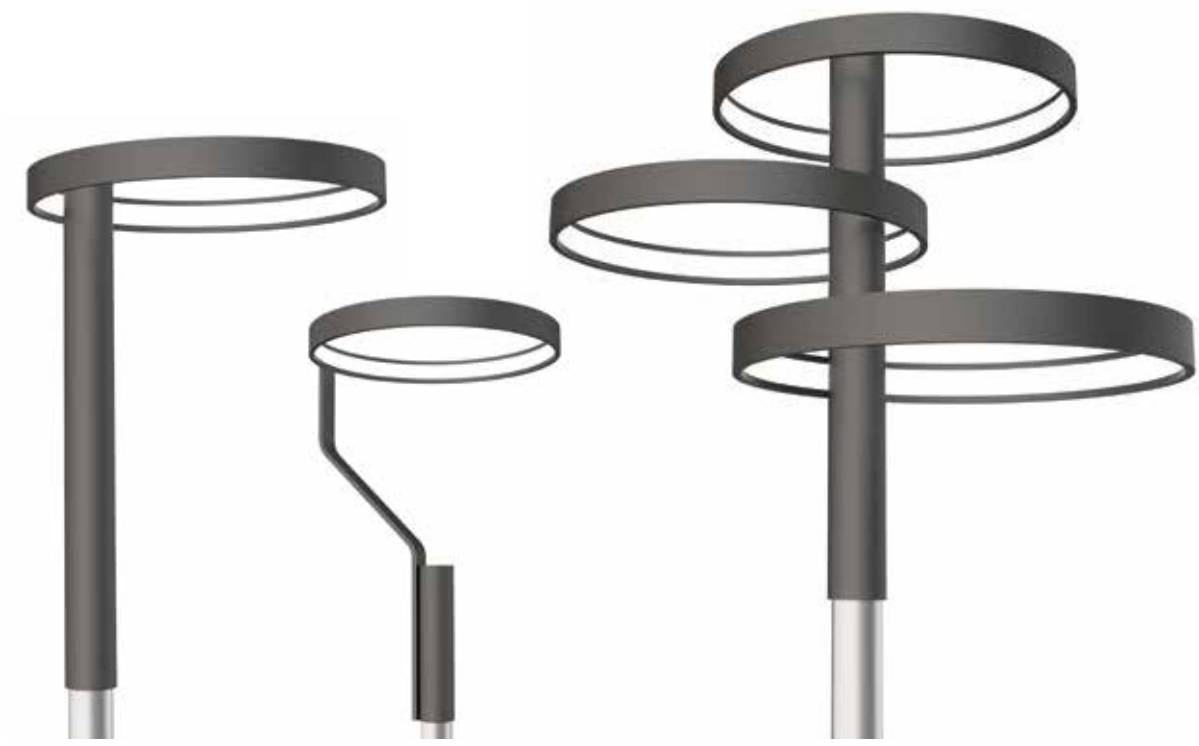


GRUPPO RAINA
L'unione fa la luce.



MARKUS XS

MARKUS XS



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido. Difusor de policarbonado opal. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XS



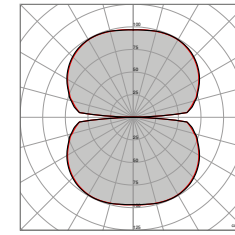


MARKUS XS A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSA1W/N**08**	2250	1125	18	> 63
KMRSA2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K)



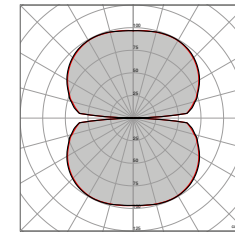
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSB1W/N**08**	2250	1125	18	> 63
KMRSB2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K



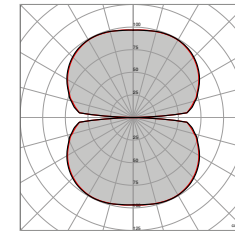
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSC5W/N**08**	6750	3375	54	> 63

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMRSA1** W/N **08**

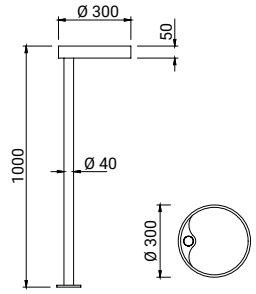
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMRSA1**

B

MARKUS XS

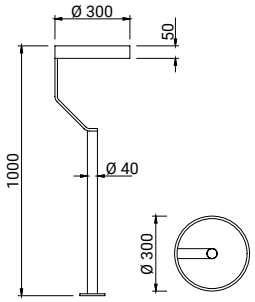
DIMENSIONAL

MARKUS XS A



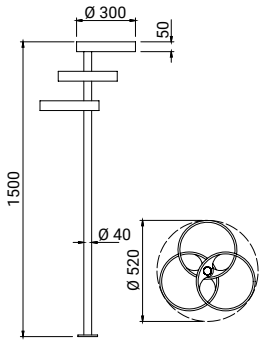
DIMENSIONAL

MARKUS XS B



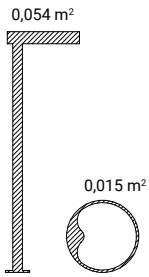
DIMENSIONAL

MARKUS XS C

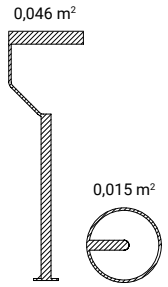


WIND RESISTANCE

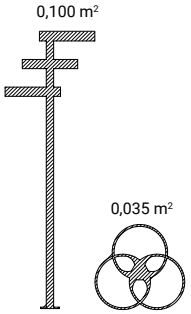
MARKUS XS A



MARKUS XS B



MARKUS XL C



WEIGHT (Kg)

MARKUS XS A: **4,0**
MARKUS XS B: **4,5**
MARKUS XS C: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MARKUS XS A - B - C: **-20 ~ +45°C**



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CROKET

CROKET



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LEDLeuchtmittel. Direkte Lichtemission.

RU

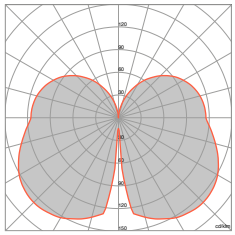
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CROKET



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCK03W/N**08**	1000	500	6	> 83	145 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

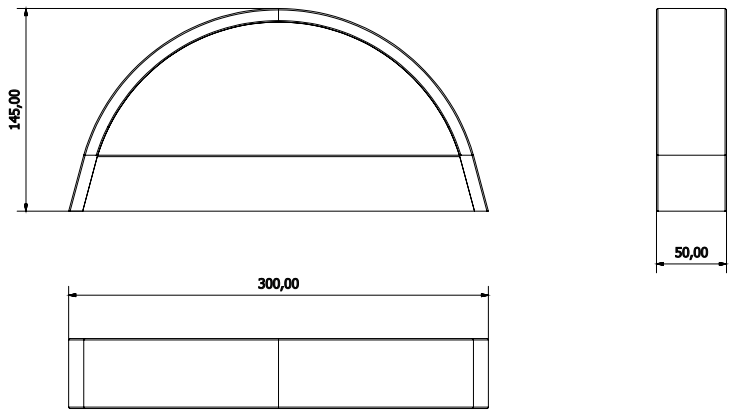
Code

Code Ordering example: **KCK03** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCK03**

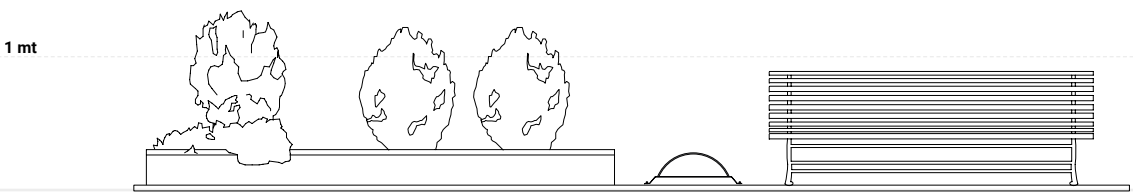
Mechanical Features

DIMENSIONAL



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
1,5	**-20°C ~ +45°C**

Applications





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AIRON

AIRON





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
3 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		CAE ON/OFF			

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. IP65 printed silicon optical unit. LED light source Direct light emission.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Gruppo ottico in silicone stampato IP65. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Groupe optique en silicone imprimé IP65. Source lumineuse LED. Emission directe

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Grupo óptico en silicona impresa IP65. Fuente de luz LED. Emisión directa

DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. LED-Lichtquelle Direkte Lichtemission

RU

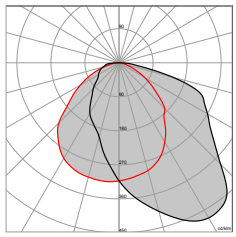
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Литая силиконовая оптика с защитой IP65. Светодиодный источник света. Прямой поток света.

AIRON



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KAR1400305W/N**08**	1800	1320	11	> 120	500 mm
KAR1400309W/N**08**	1800	1320	11	> 120	900 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

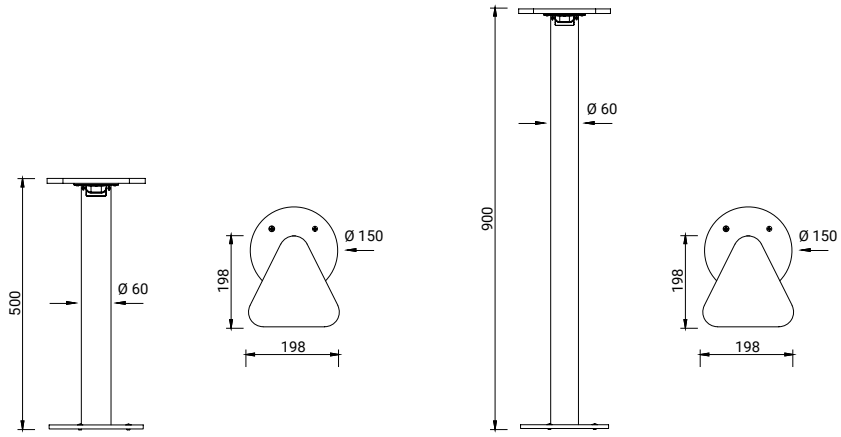
Code

Code Ordering example: **KAR1400305** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KAR1400305**

Mechanical Features

DIMENSIONAL



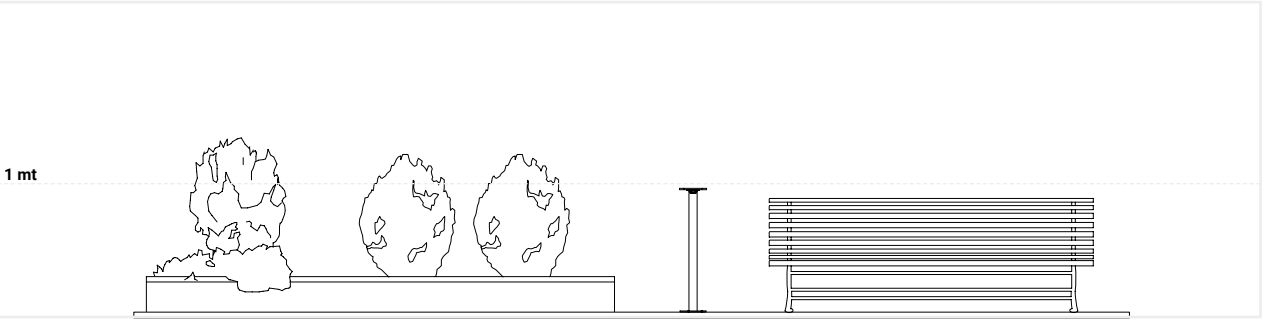
WEIGHT (Kg)

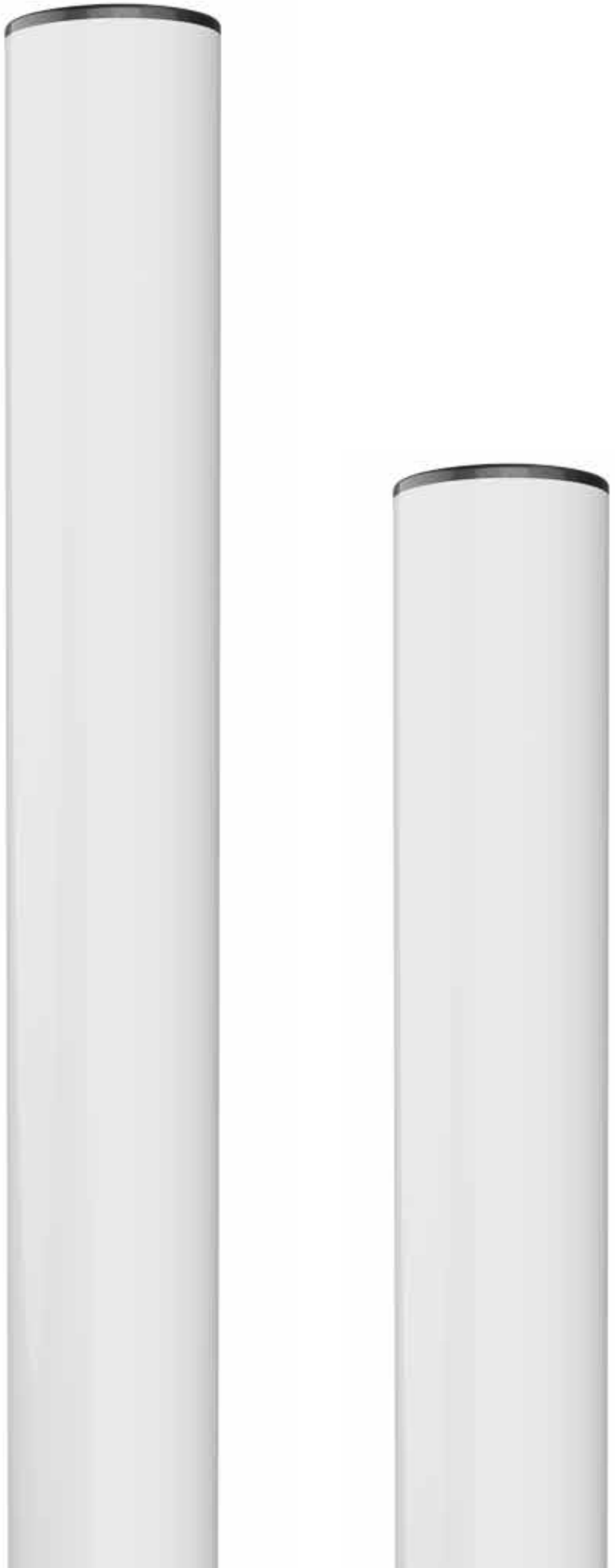
AIRON 500: **3,5** - AIRON 900: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





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MADAI

MADAI



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		CAE ON/OFF			

EN

Extruded aluminium body. Opal polycarbonate closing reflector. Anti-scratch epoxy powder paint finish after phosphating. LED light source. Direct light emission.

IT

Corpo in alluminio estruso. Schermo di chiusura in policarbonato opalino. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium extrudé. Écran de fermeture en polycarbonate opale. Finition de peinture en poudre époxy anti-rayures. Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio extruido. Difusor de policarbonato opal. Recubierta con polvo epoxi anti-rayado previa fosfatación. Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Abdeckschirm aus opalem Polycarbonat. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. LED-Lichtquelle. Direkte Lichtemission.

RU

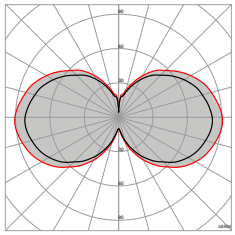
Корпус из экструдированного алюминия. Закрывающий экран выполнен из матового поликарбоната. Покрытие устойчивым к царапинам эпоксидным порошком. Светодиодный источник света. Прямой поток света.

MADAI



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMD0611W/N**08**	3200	1580	25	> 63	h 605-1125

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

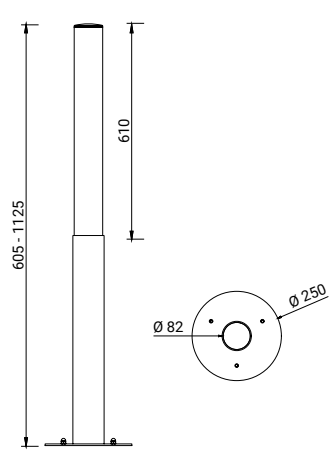
Code

Code Ordering example: **KMD0611** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMD0611**

Mechanical Features

DIMENSIONAL





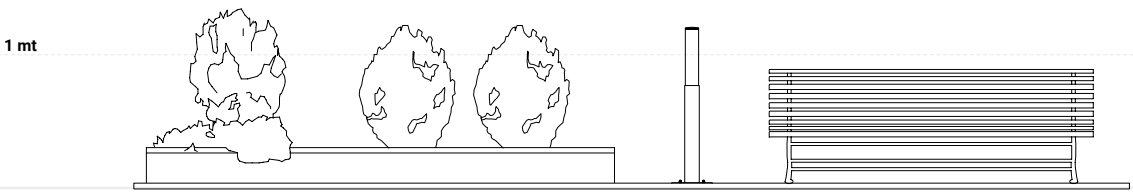
WEIGHT (Kg)

2,5

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





GRUPPO RAINA
L'unione fa la luce.

FLOODLIGHTS



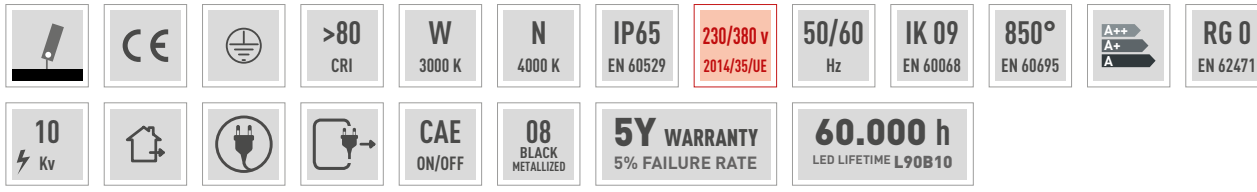




MEGALUX

MEGALUX





EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Direct light emission. LED light source. IP66 quick plug-in connector for power line included. Electronic power supply CAE in separate box.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE in cassetta separata.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Emission directe. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentación CAE en caja externa.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Emisión directa. Fuente de luz LED. Conector rápido IP66 para alimentación incluido. Boîtier externe pour alimentation électronique CAE.

DE

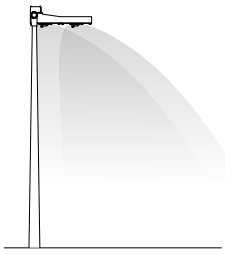
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Elektronische Stromversorgung CAE in separater Box.

RU

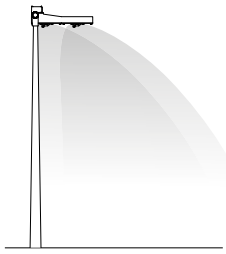
Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Отдельный блок питания CAE.

Beams [MEGALUX 8 - MEGALUX 12]

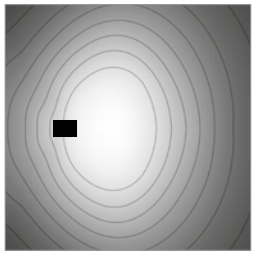
AS [OPTIC]



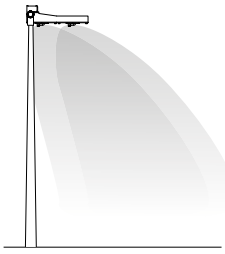
MEGALUX 8



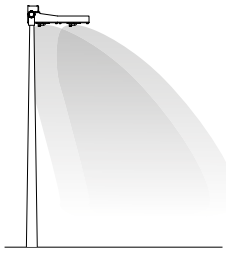
MEGALUX 12



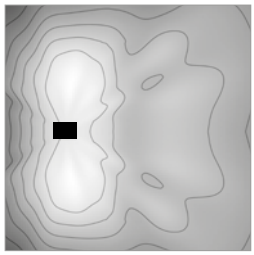
AS2 [OPTIC]



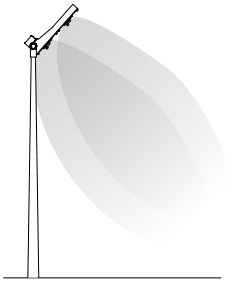
MEGALUX 8



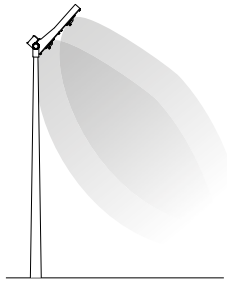
MEGALUX 12



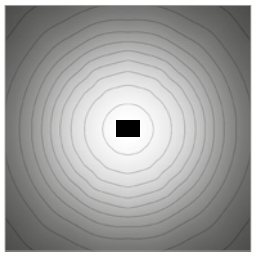
D [OPTIC]



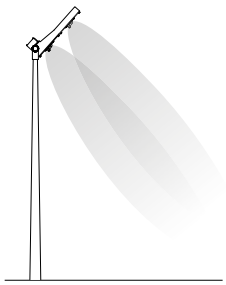
MEGALUX 8



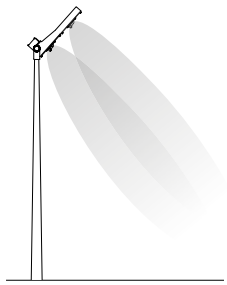
MEGALUX 12



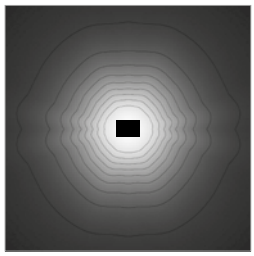
C [OPTIC]



MEGALUX 8



MEGALUX 12

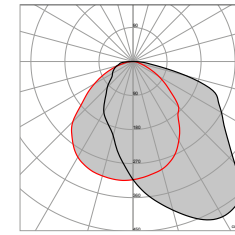


MEGALUX 8 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018ASW/N**08**	124800	93400	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



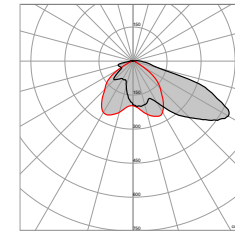
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018AS2W/N**08**	124800	94600	816	> 116	1000

W/N= **W** (3000 K) | **N** (4000 K)



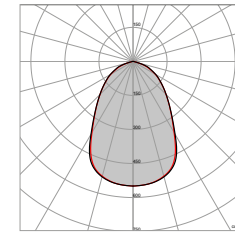
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018DW/N**08**	124800	95800	816	> 118	1000

W/N= **W** (3000 K) | **N** (4000 K)



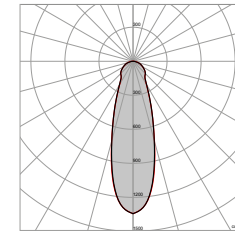
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018CW/N**08**	124800	92600	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMG88018** **AS** W/N **08**

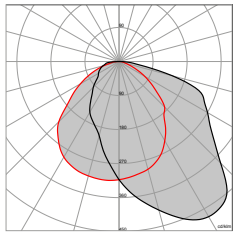
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG88018**

MEGALUX 12 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018ASW/N**08**	187200	140100	1224	> 115	2000

W/N= **W** (3000 K) | **N** (4000 K)



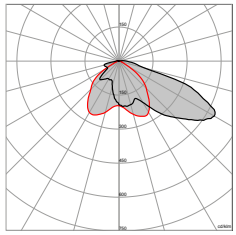
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018AS2W/N**08**	187200	141900	1224	> 116	2000

W/N= **W** (3000 K) | **N** (4000 K)



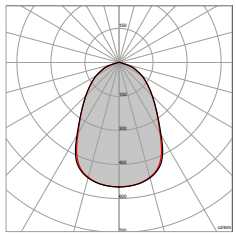
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018DW/N**08**	187200	143700	1224	> 118	2000

W/N= **W** (3000 K) | **N** (4000 K)



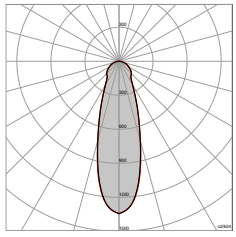
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018CW/N**08**	187200	140700	1224	> 114	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

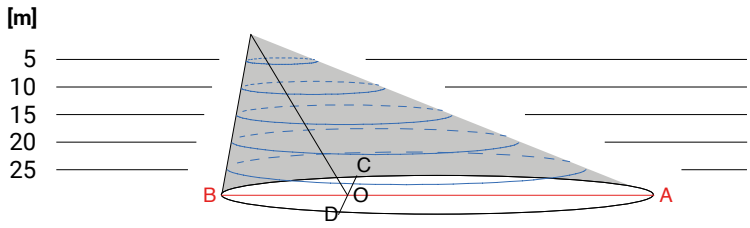
Code

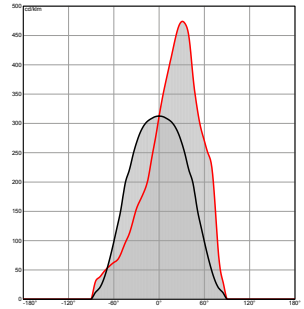
Code Ordering example: **KMG128018** **AS** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG128018**

Beams [MEGALUX 8-12]

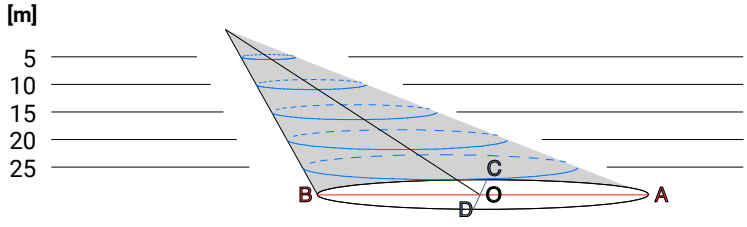
AS [OPTIC]

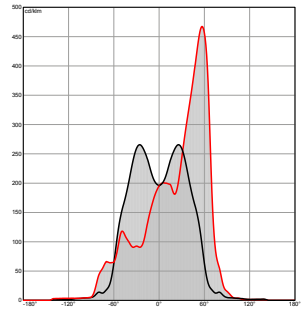




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	1370	330	2055	495
10	340	85	515	125
15	150	40	230	55
20	90	22	130	30
25	55	13	85	20

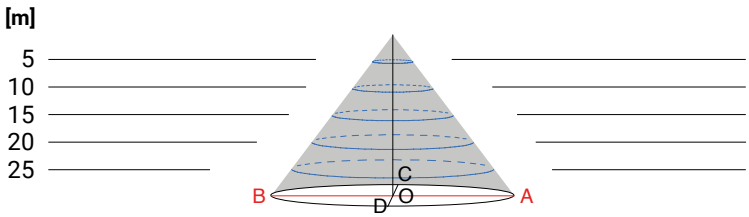
AS2 [OPTIC]

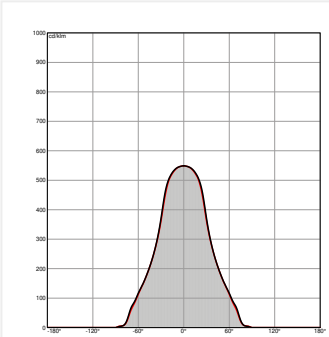




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	735	145	1100	220
10	185	40	280	55
15	85	16	125	25
20	50	10	70	15
25	30	6	45	10

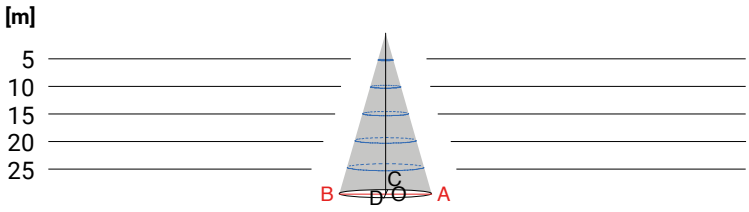
D [OPTIC]

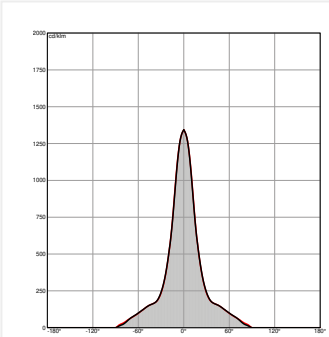




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	2105	980	3160	1470
10	530	245	790	367
15	235	110	355	170
20	135	65	200	95
25	85	40	130	60

C [OPTIC]





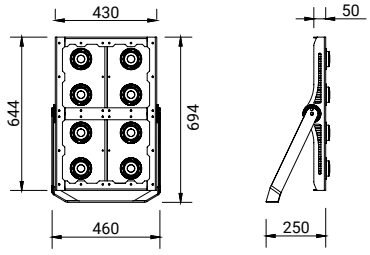
	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	4975	3105	7470	4660
10	1245	780	1870	1165
15	555	345	830	295
20	315	195	470	295
25	200	125	300	190

C

MEGALUX

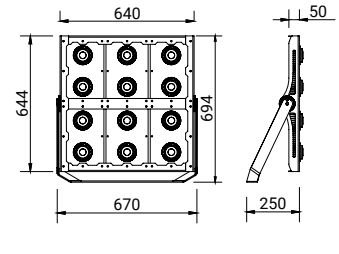
DIMENSIONAL + FIXTING

MEGALUX 8



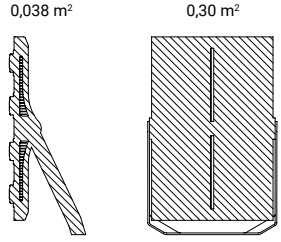
DIMENSIONAL + FIXTING

MEGALUX 12

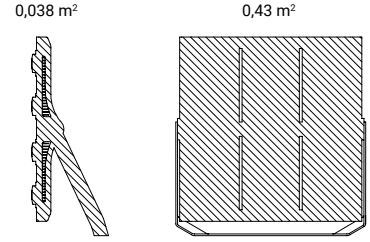


WIND RESISTANCE

MEGALUX 8



MEGALUX 12



WEIGHT (Kg)

MEGALUX 8: **19,0+8,0** (driver box)
MEGALUX 12: **28,0+12,0** (driver box)

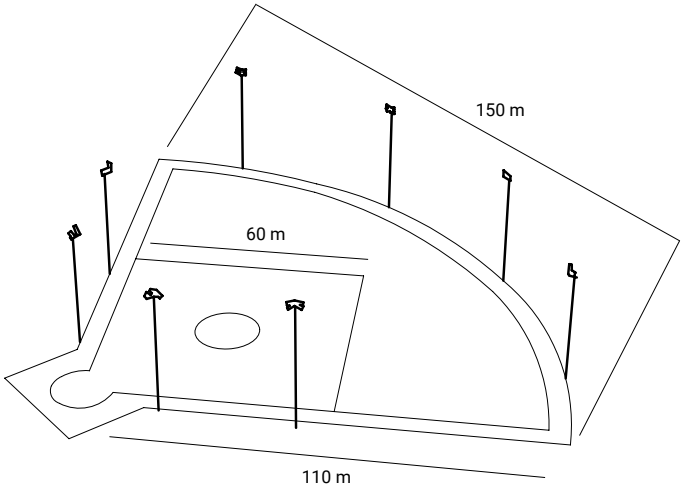
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MEGALUX 8 - 12: **-20 ~ +45°C**

Application (Baseball)



Playground Area	Poles	Lux Value Result	Light Fittings Required
110x110x150 m	8 x h= 30 m	500 Lx pitch 700 Lx Diamond	no.64 KMG12CN

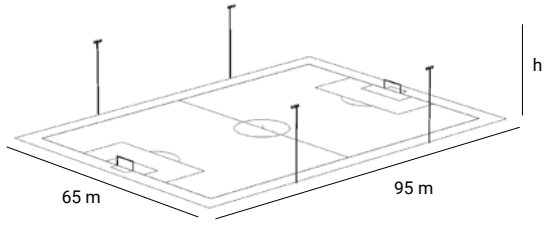


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

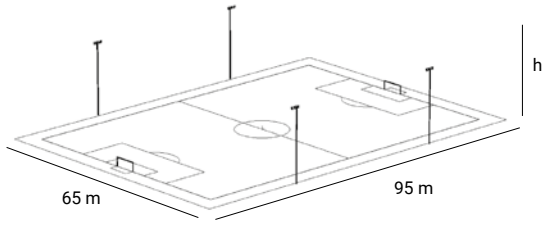
Application (Football)



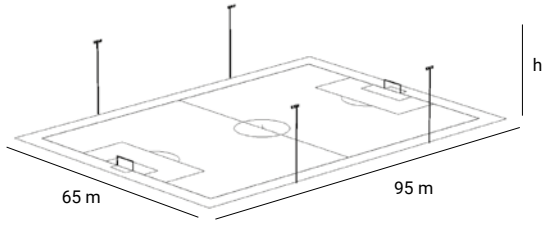
Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 25 m	200 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 20 m	100 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	8 x h= 15 m	100 Lx	n.8 KMG8CN - KMG8DN



Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx







GRUPPO RAINA
L'unione fa la luce.



WALLEY XP

WALLEY XP



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
10 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation.Emission directe. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED.Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

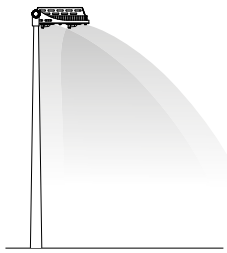
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

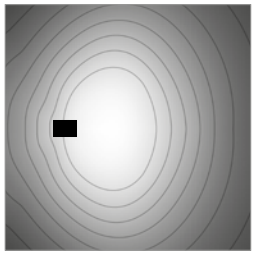
Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [WALLEY XP 1-2-4-6]

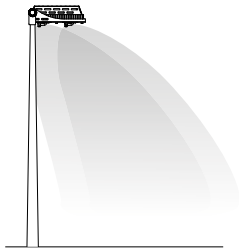
AS [OPTIC]



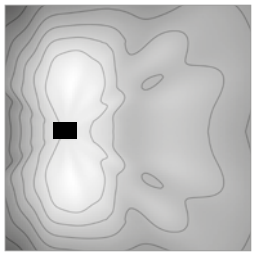
WALLEY XP



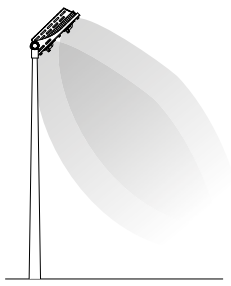
AS2 [OPTIC]



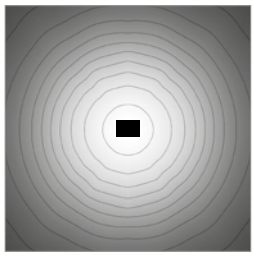
WALLEY XP



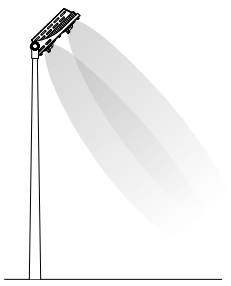
D [OPTIC]



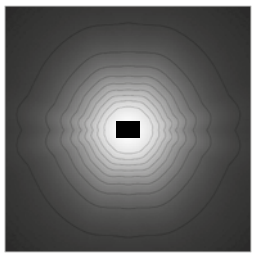
WALLEY XP



C [OPTIC]



WALLEY XP

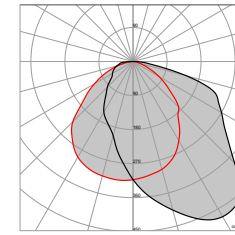


WALLEY XP 1 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016ASW/N**08**	13840	9960	95	> 104	150
KWYX18018ASW/N**08**	15450	10770	105	> 103	150

W/N= **W** (3000 K) | **N** (4000 K)



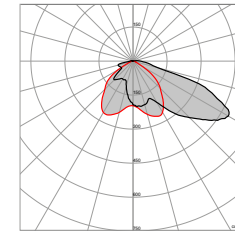
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016AS2W/N**08**	13840	9575	95	> 100	150
KWYX18018AS2W/N**08**	15450	10560	105	> 101	150

W/N= **W** (3000 K) | **N** (4000 K)



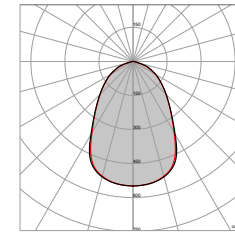
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016DW/N**08**	13840	10340	95	> 108	150
KWYX18018DW/N**08**	15450	11400	105	> 109	150

W/N= **W** (3000 K) | **N** (4000 K)



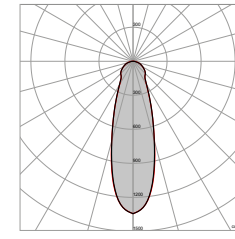
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016CW/N**08**	13840	10080	95	> 112	150
KWYX18018CW/N**08**	15450	11120	105	> 106	150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX16016** **AS** W/N **08**

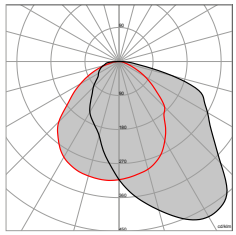
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX16016**

WALLEY XP 2 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013ASW/N**08**	15720	11310	100	> 113	250
KWYX24016ASW/N**08**	18500	13300	123	> 108	250
KWYX26013ASW/N**08**	22840	16230	147	> 110	250
KWYX26016ASW/N**08**	27680	19915	191	> 104	400
KWYX28016ASW/N**08**	28200	20425	184	> 111	400
KWYX28018ASW/N**08**	31200	22070	202	> 109	400
KWYX28021ASW/N**08**	35400	25585	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



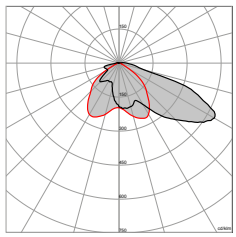
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013AS2W/N**08**	15720	10875	100	> 109	250
KWYX24016AS2W/N**08**	18500	12800	123	> 104	250
KWYX26013AS2W/N**08**	22840	15610	147	> 106	250
KWYX26016AS2W/N**08**	27680	19150	191	> 100	400
KWYX28016AS2W/N**08**	28200	19640	184	> 107	400
KWYX28018AS2W/N**08**	31200	21220	202	> 105	400
KWYX28021AS2W/N**08**	35400	24290	244	> 100	400

W/N= **W** (3000 K) | **N** (4000 K)



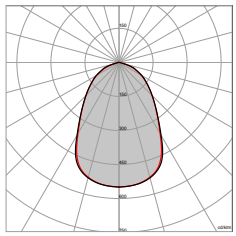
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013DW/N**08**	15720	11750	100	> 118	250
KWYX24016DW/N**08**	18500	13820	123	> 112	250
KWYX26013DW/N**08**	22840	16850	147	> 115	250
KWYX26016DW/N**08**	27680	20680	191	> 108	400
KWYX28016DW/N**08**	28200	21210	184	> 115	400
KWYX28018DW/N**08**	31200	22920	202	> 114	400
KWYX28021DW/N**08**	35400	26230	244	> 108	400

W/N= **W** (3000 K) | **N** (4000 K)



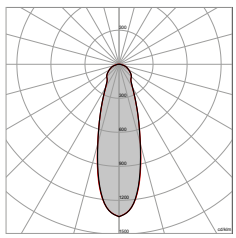
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013CW/N**08**	15720	11455	100	> 115	250
KWYX24016CW/N**08**	18500	13475	123	> 110	250
KWYX26013CW/N**08**	22840	16440	147	> 112	250
KWYX26016CW/N**08**	27680	20170	191	> 106	400
KWYX28016CW/N**08**	28200	20690	184	> 112	400
KWYX28018CW/N**08**	31200	22350	202	> 111	400
KWYX28021CW/N**08**	35400	25550	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



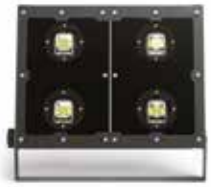
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX24013** **AS** W/N **08**

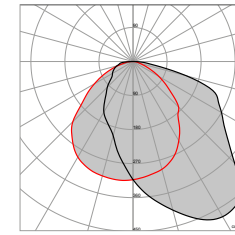
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX24013**

WALLEY XP 4 AS



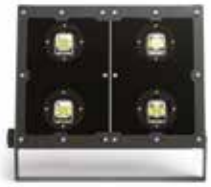
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013ASW/N**08**	31440	22620	200	> 113	400
KWYX44016ASW/N**08**	37000	26600	246	> 108	400
KWYX46013ASW/N**08**	45680	32460	294	> 110	600
KWYX46016ASW/N**08**	55360	39830	382	> 104	600
KWYX48016ASW/N**08**	56400	40850	368	> 111	600
KWYX48018ASW/N**08**	62400	44140	404	> 109	600
KWYX48021ASW/N**08**	70800	51170	488	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



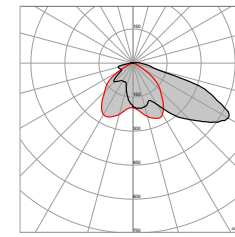
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 AS2



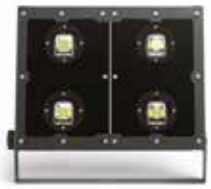
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013AS2W/N**08**	31440	21750	200	> 109	400
KWYX44016AS2W/N**08**	37000	25600	246	> 104	400
KWYX46013AS2W/N**08**	45680	31220	294	> 106	600
KWYX46016AS2W/N**08**	55360	38300	382	> 100	600
KWYX48016AS2W/N**08**	56400	39280	368	> 107	600
KWYX48018AS2W/N**08**	62400	42440	404	> 105	600
KWYX48021AS2W/N**08**	70800	48580	488	> 100	1000

W/N= **W** (3000 K) | **N** (4000 K)



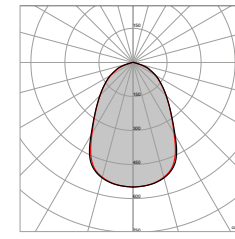
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 D



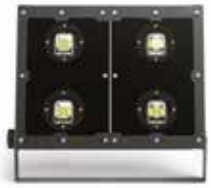
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013DW/N**08**	31440	23500	200	> 118	400
KWYX44016DW/N**08**	37000	27640	246	> 11	400
KWYX46013DW/N**08**	45680	33700	294	> 113	600
KWYX46016DW/N**08**	55360	41360	382	> 108	600
KWYX48016DW/N**08**	56400	42420	368	> 115	600
KWYX48018DW/N**08**	62400	45840	404	> 114	600
KWYX48021DW/N**08**	70800	52460	488	> 108	1000

W/N= **W** (3000 K) | **N** (4000 K)



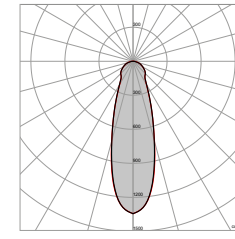
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013CW/N**08**	31440	22910	200	> 114,6	400
KWYX44016CW/N**08**	37000	26950	246	> 109,6	400
KWYX46013CW/N**08**	45680	32880	294	> 111,8	600
KWYX46016CW/N**08**	55360	40340	382	> 105,6	600
KWYX48016CW/N**08**	56400	41380	368	> 112,4	600
KWYX48018CW/N**08**	62400	44700	404	> 110,6	600
KWYX48021CW/N**08**	70800	51100	488	> 104,7	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX44013** **AS** W/N **08**

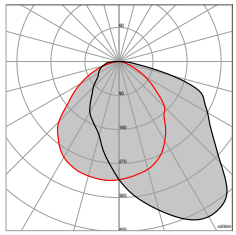
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX44013**

WALLEY XP 6 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013ASW/N**08**	47160	33930	300	> 113	600
KWYX64016ASW/N**08**	55500	39900	369	> 108	600
KWYX66013ASW/N**08**	68520	48690	441	> 110	1000
KWYX66016ASW/N**08**	83040	59745	573	> 104	1000
KWYX68016ASW/N**08**	84600	61275	552	> 111	1000
KWYX68018ASW/N**08**	93600	66210	606	> 109	1000
KWYX68021ASW/N**08**	106200	76755	732	> 105	1500

W/N= **W** (3000 K) | **N** (4000 K)



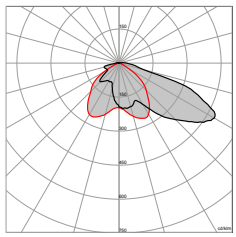
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013AS2W/N**08**	47160	43500	300	> 145	600
KWYX64016AS2W/N**08**	55500	51200	369	> 139	600
KWYX66013AS2W/N**08**	68520	62440	441	> 142	1000
KWYX66016AS2W/N**08**	83040	76600	573	> 133	1000
KWYX68016AS2W/N**08**	84600	78560	552	> 142	1000
KWYX68018AS2W/N**08**	93600	84880	606	> 140	1000
KWYX68021AS2W/N**08**	106200	97160	732	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



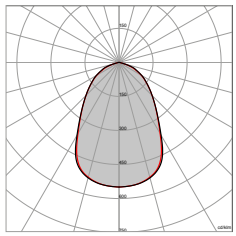
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013DW/N**08**	47160	35250	300	> 118	600
KWYX64016DW/N**08**	55500	41460	369	> 112	600
KWYX66013DW/N**08**	68520	50550	441	> 115	1000
KWYX66016DW/N**08**	83040	62040	573	> 108	1000
KWYX68016DW/N**08**	84600	63630	552	> 115	1000
KWYX68018DW/N**08**	93600	68760	606	> 114	1000
KWYX68021DW/N**08**	106200	78690	732	> 108	1500

W/N= **W** (3000 K) | **N** (4000 K)



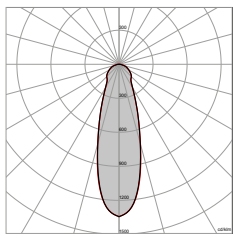
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013CW/N**08**	47160	34365	300	> 114,6	600
KWYX64016CW/N**08**	55500	40425	369	> 109,6	600
KWYX66013CW/N**08**	68520	49320	441	> 111,8	1000
KWYX66016CW/N**08**	83040	60510	573	> 105,6	1000
KWYX68016CW/N**08**	84600	62070	552	> 112,4	1000
KWYX68018CW/N**08**	93600	67050	606	> 110,6	1000
KWYX68021CW/N**08**	106200	76650	732	> 104,7	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

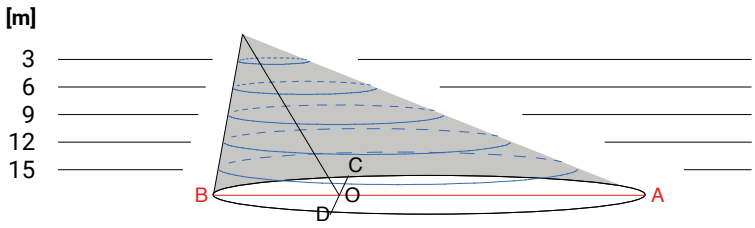
Code

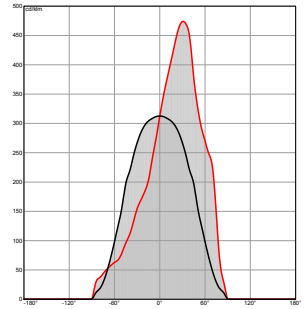
Code Ordering example: **KWYX64013** **AS** W/N **08**

- **08** — Product colour: **08** Black Metalizzed
- W/N — Colour Temperature: **W** 3000 K - **N** 4000 K
- **AS** — Optic type
- **KWYX64013** — Product Code: **KWYX64013**

Beams [WALLEY XP 1]

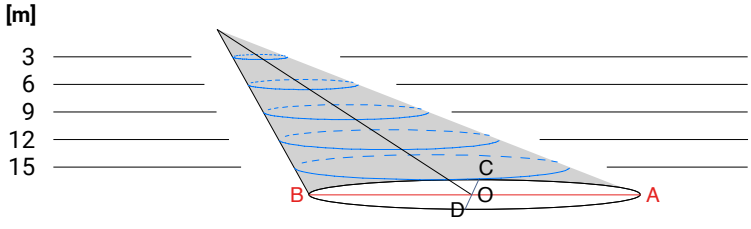
AS [OPTIC]

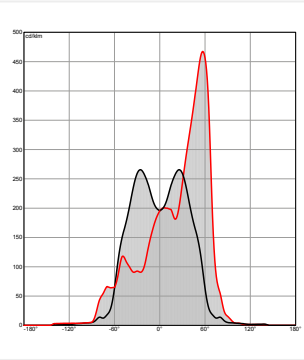




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	425	105	440	105
6	105	26	110	26
9	27	6	50	12
12	-	-	30	7
15	-	-	-	-

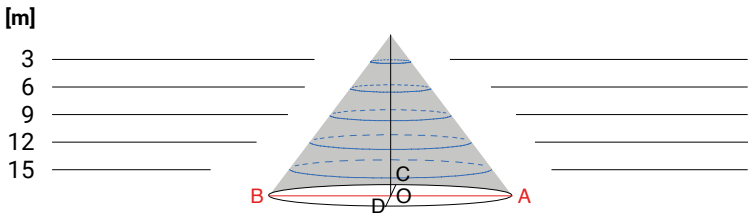
AS2 [OPTIC]

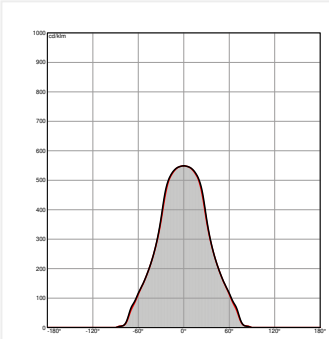




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	220	60	230	65
6	55	15	60	20
9	25	8	30	8
12	-	-	15	5
15	-	-	-	-

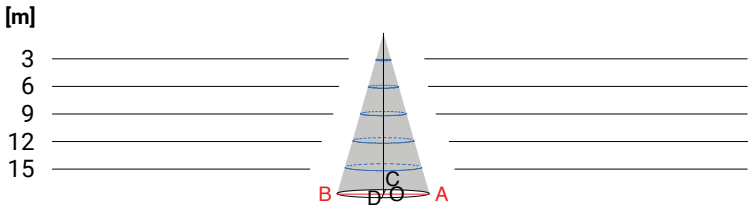
D [OPTIC]

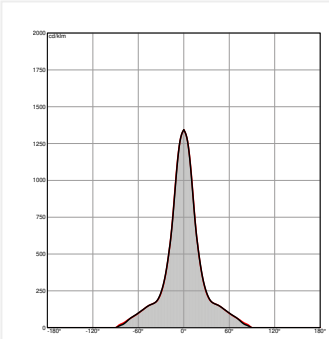




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	660	310	700	325
6	165	80	175	85
9	75	35	80	40
12	43	18	45	20
15	30	12	32	13

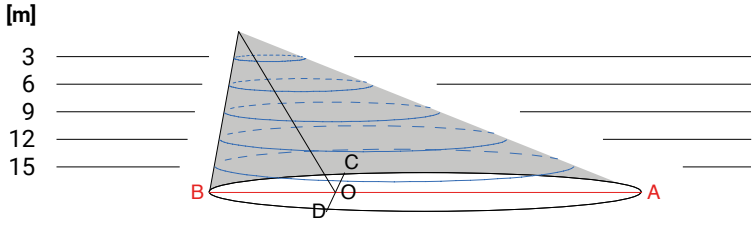
C [OPTIC]

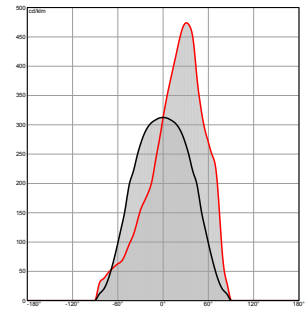




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	2200	1170	2315	1225
6	550	290	580	310
9	250	130	260	140
12	140	76	150	80
15	90	47	95	50

AS [OPTIC]

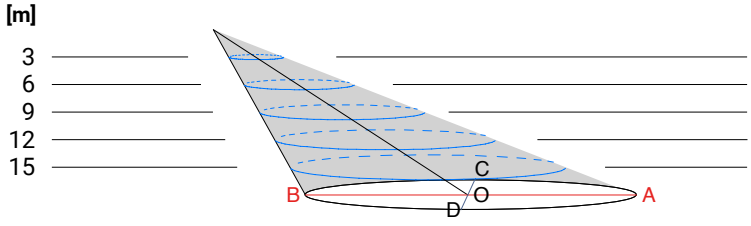


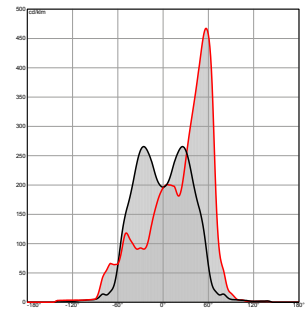


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	460	110	545	135	660	160	810	195
6	115	30	135	35	165	40	205	50
9	50	12	60	15	73	18	90	20
12	30	7	35	8	41	10	51	12
15	18	4	22	5	26	6	32	8

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	835	200	900	220	1050	250
6	210	50	225	55	260	63
9	95	22	100	25	115	30
12	55	13	56	14	65	16
15	33	8	36	9	42	10

AS2 [OPTIC]

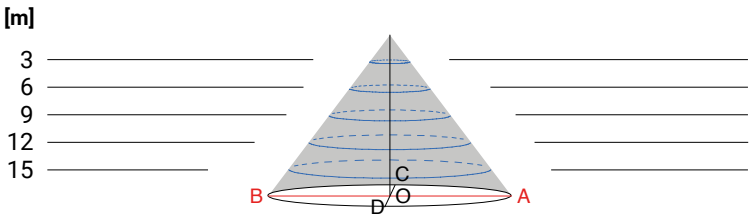


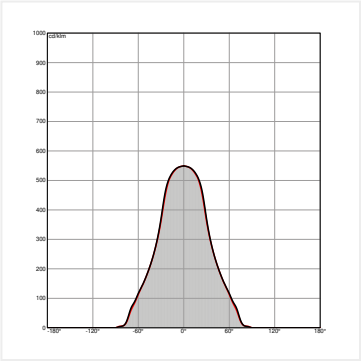


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	240	65	280	75	340	92	420	115
6	60	16	70	20	85	23	105	28
9	26	7	30	8	38	10	45	12
12	15	4	17	5	21	6	26	7
15	-	-	-	-	14	4	17	5

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	430	120	460	125	530	145
6	107	30	115	31	135	36
9	50	13	51	14	60	16
12	27	7	29	8	35	9
15	16	5	18	5	21	6

D [OPTIC]

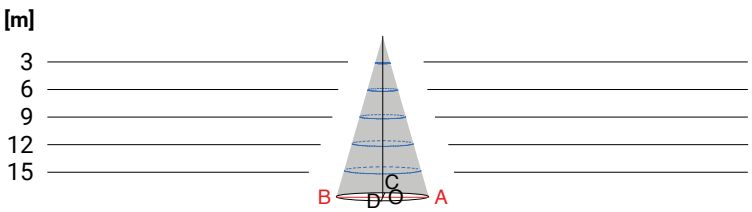


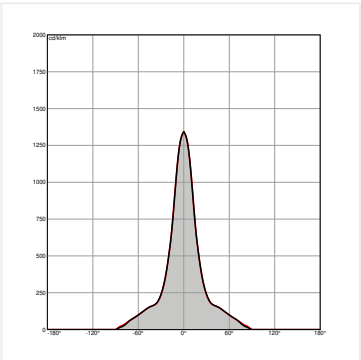


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	720	335	845	400	1030	480	1265	590
6	180	85	215	100	260	120	315	148
9	80	37	95	45	115	55	140	65
12	45	21	55	25	65	30	79	37
15	30	13	35	16	41	20	50	24

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1295	605	1400	650	1600	745
6	325	151	350	165	400	185
9	145	67	155	72	180	85
12	81	38	87	41	100	50
15	52	25	56	26	65	30

C [OPTIC]

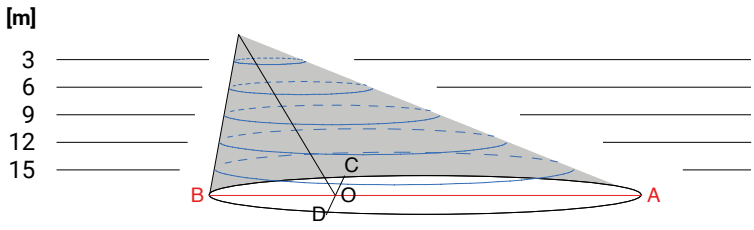


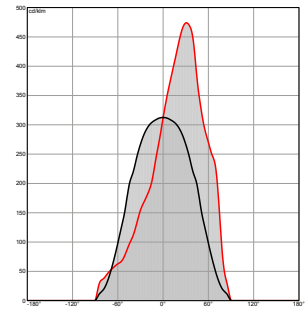


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1710	1070	2015	1260	2455	1535	3010	180
6	430	270	505	315	615	385	755	470
9	190	120	225	140	275	170	335	210
12	110	70	130	80	155	96	190	120
15	70	45	80	50	100	61	120	75

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3090	1930	3335	2090	3815	2385
6	775	485	835	525	955	595
9	343	215	370	230	425	265
12	195	123	210	130	240	150
15	124	77	133	83	155	95

AS [OPTIC]

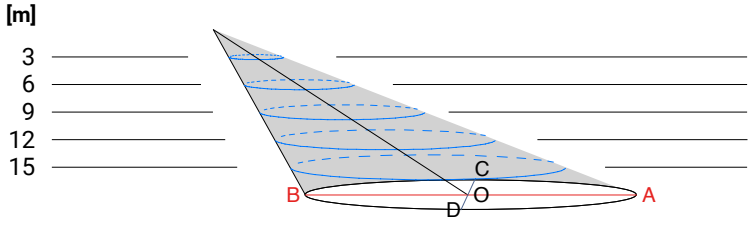


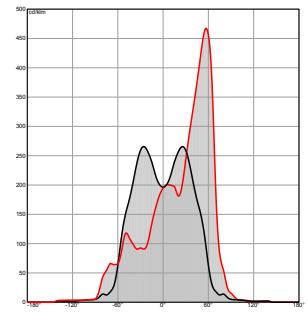


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	920	225	1085	265	1320	320	1625	395
6	230	56	275	65	330	80	405	98
9	105	25	120	30	150	35	180	43
12	58	14	70	16	85	20	100	23
15	37	9	45	10	55	15	65	16

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1665	400	1800	435	2090	500
6	415	100	450	110	525	125
9	185	45	200	50	230	60
12	105	25	115	28	130	31
15	70	18	75	19	85	20

AS2 [OPTIC]

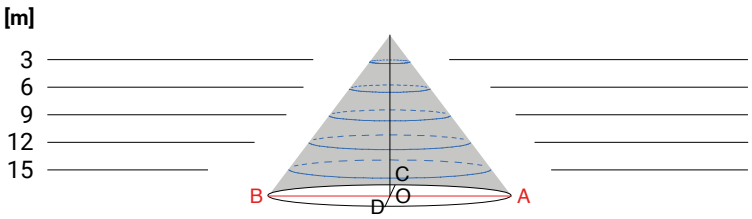


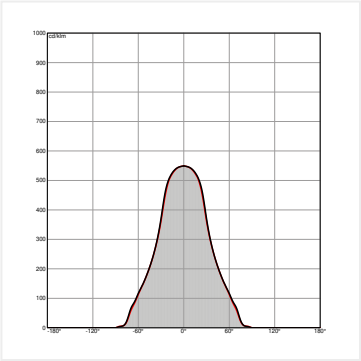


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	475	130	556	155	680	185	835	227
6	120	32	140	40	170	46	210	55
9	53	14	65	20	75	20	92	25
12	30	8	35	10	42	12	52	14
15	20	5	22	6	27	7	33	9

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	855	235	925	250	1060	290
6	215	60	230	65	270	75
9	95	26	105	30	120	35
12	53	14	60	16	70	20
15	34	9	40	10	45	11

D [OPTIC]

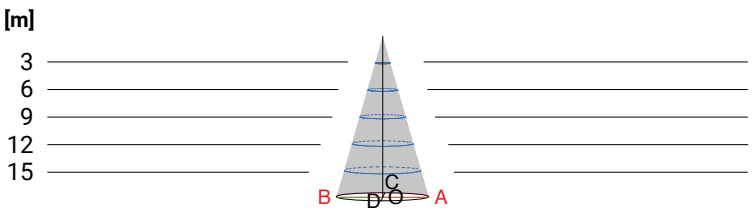


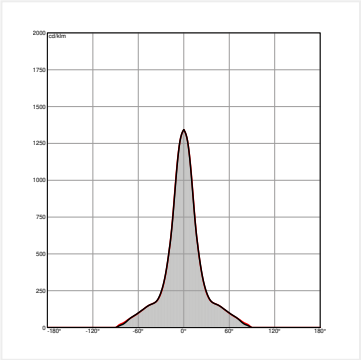


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1435	670	1690	785	2060	960	2525	1175
6	360	170	425	200	515	240	630	295
9	160	75	190	90	230	105	280	130
12	90	45	105	50	130	60	160	73
15	60	30	70	33	85	40	100	48

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	2590	1205	2800	1300	3201	1500
6	650	300	700	330	800	375
9	290	135	315	145	360	170
12	165	75	175	85	200	95
15	105	50	115	55	130	60

C [OPTIC]



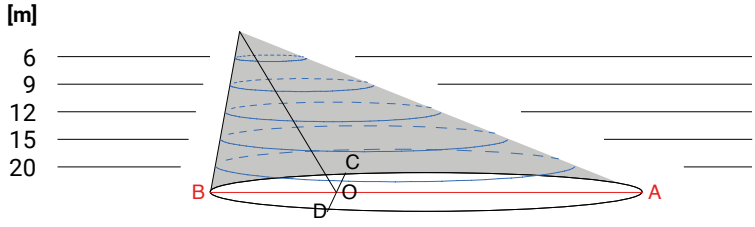


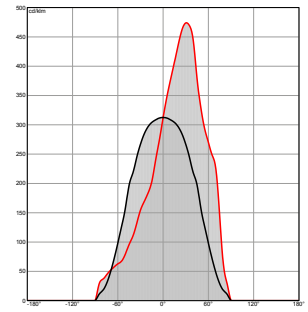
	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3420	2135	4025	2515	4910	3070	6025	3760
6	855	535	1010	230	1230	770	1505	940
9	380	240	450	280	545	340	670	420
12	215	135	255	160	310	195	375	235
15	140	85	160	100	195	125	240	150

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	6180	3860	6675	4170	7630	4765
6	1550	970	1670	1050	1910	1200
9	685	430	745	465	850	530
12	390	245	420	260	480	300
15	250	155	270	170	305	190

Beams [WALLEY XP 6]

AS [OPTIC]

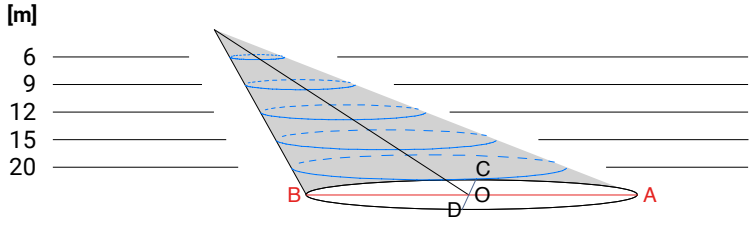


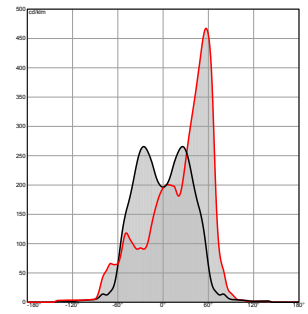


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	350	85	410	100	500	120	610	150
9	155	40	185	45	220	55	270	65
12	86	21	105	25	125	30	155	37
15	55	13	66	16	80	20	98	23
20	31	7	37	9	45	11	55	13

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	625	150	675	165	785	190
9	280	70	300	72	350	85
12	160	40	170	41	195	50
15	100	25	110	27	125	30
20	56	14	61	15	70	17

AS2 [OPTIC]

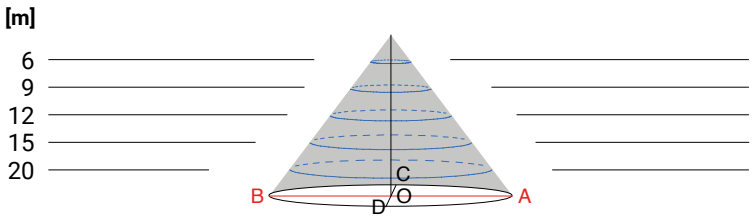


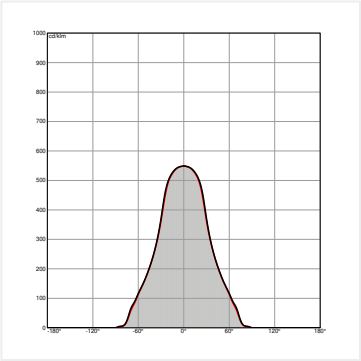


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	180	195	210	60	255	70	315	85
6	80	21	95	25	115	31	140	38
9	45	12	55	15	65	20	76	21
12	30	8	35	10	40	11	50	13
15	16	4	20	5	23	6	28	8

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	320	90	350	95	400	110
6	145	40	155	45	180	50
9	80	22	86	25	100	30
12	51	14	55	15	65	20
15	29	8	31	9	36	10

D [OPTIC]

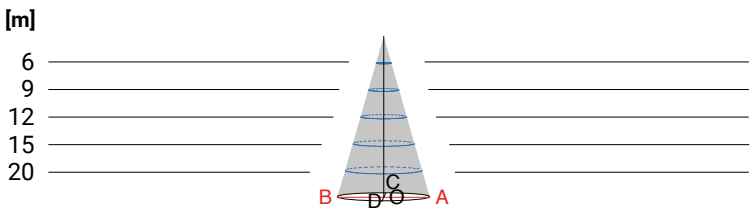


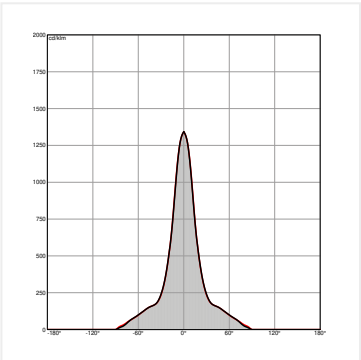


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	540	250	640	300	770	360	950	445
9	240	115	280	130	345	160	425	200
12	135	63	160	75	195	90	240	110
15	86	40	100	50	125	57	155	70
20	50	25	60	30	70	35	85	40

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	975	455	1050	490	1200	560
9	435	205	470	220	535	250
12	245	115	270	125	300	140
15	155	75	170	80	195	90
20	87	41	95	45	110	50

C [OPTIC]





	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	1285	800	1510	945	1840	1150	2260	1410
9	570	360	670	420	820	515	1005	630
12	325	200	380	235	460	290	565	355
15	205	130	240	150	295	185	365	230
20	115	75	135	85	170	105	205	128

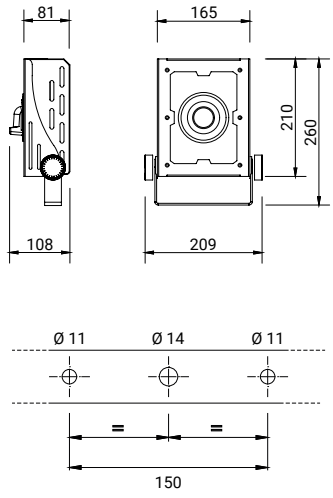
	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	2320	1450	2505	1565	2860	1790
9	1030	645	1115	695	1275	795
12	580	365	625	395	715	450
15	375	235	400	250	4660	290
20	210	130	225	145	260	165

C

WALLEY XP

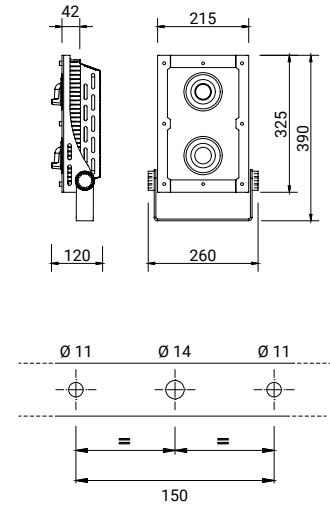
DIMENSIONAL + FIXTING

WALLEY XP 1



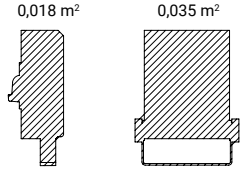
DIMENSIONAL + FIXTING

WALLEY XP 2

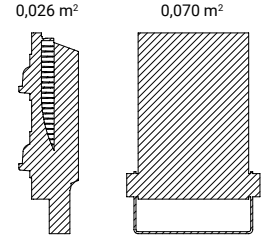


WIND RESISTANCE

WALLEY XP 1



WALLEY XP 2



WEIGHT (Kg)

WALLEY XP 1: **4,5**
WALLEY XP 2: **6,0**

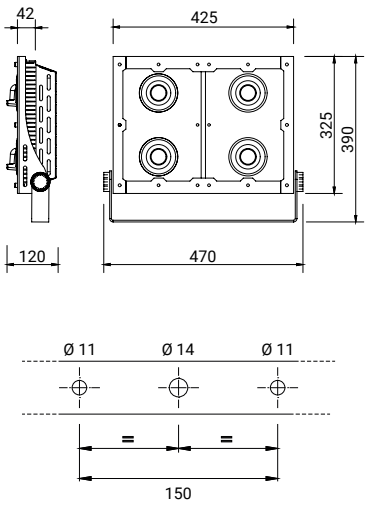
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 1 - 2: **-20 ~ +45°C**

WALLEY XP

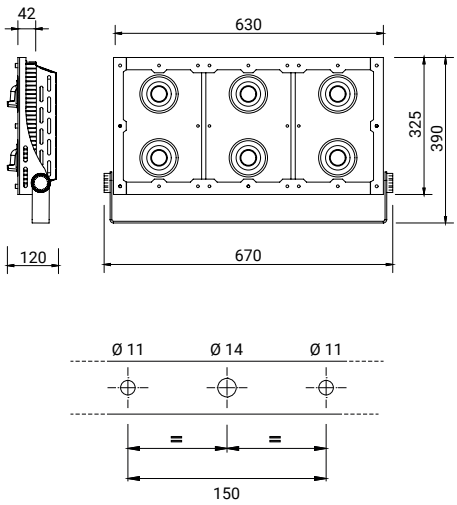
DIMENSIONAL + FIXTING

WALLEY XP 4



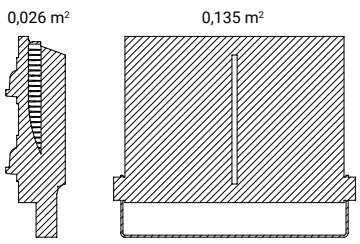
DIMENSIONAL + FIXTING

WALLEY XP 6

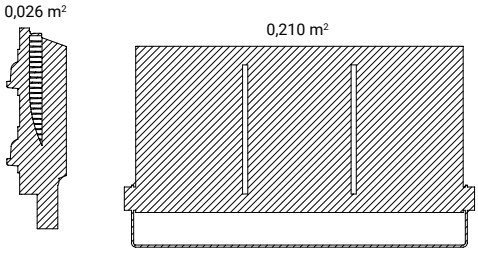


WIND RESISTANCE

WALLEY XP 4



WALLEY XP 6



WEIGHT (Kg)

WALLEY XP 4: **10,0**
WALLEY XP 6: **15,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 4 - 6: **-20 ~ +45°C**



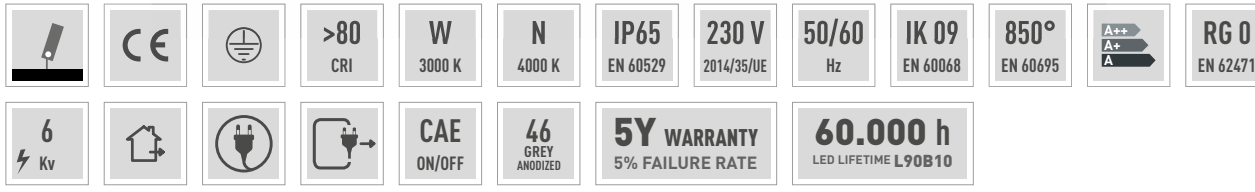
GRUPPO RAINA
L'unione fa la luce.



MOKA

MOKA





EN

Extruded anodized aluminum body with heat-sink function. Bent anodized aluminum frame painted with epoxy powders after phoshating. IP 65 printed silicon optical unit. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. Direct light emission. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio in alluminio pressopiegato verniciato con polveri epossidiche. Gruppo ottico in silicone stampato IP65. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Sorgente luminosa LED. Emissione diretta. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Châssis en aluminium anodisé pliée à la presse peint avec peinture epoxy poudré après phosphatation. Groupe optique en silicone imprimé IP65. Support de fixation réglable en acier pliée à la presse et peint avec peinture epoxy poudré après phosphatation avec goniomètre. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineux LED. Émission directe. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco en aluminio anodizado plegado a presión con polvo epoxi previamente fosfatado. Grupo óptico en silicona impresa IP65D. Soporte regulable en acero plegado a presión y recubierto con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED. Emisión directa. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

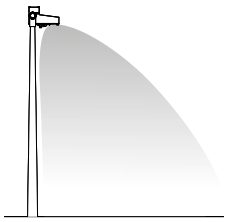
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Anodisierter, gepresster Aluminiumrahmen der nach der Phosphatierung mit Epoxidpulver lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

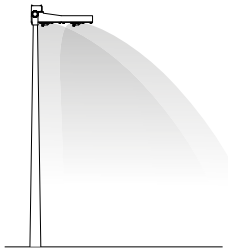
Анодированный экструдированный алюминиевый корпус с функцией теплоотвода. Анодированная, штампованная алюминиевая рама. Оптический блок из литого силикона со степенью защиты IP65. Регулируемый кронштейн из штампованной стали, окрашенный эпоксидными порошковыми красками после фосфатирования, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Светодиодный источник света. Прямой поток света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [MOKA - MOKA XL]

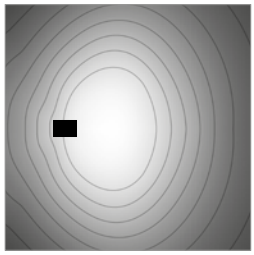
AS [OPTIC]



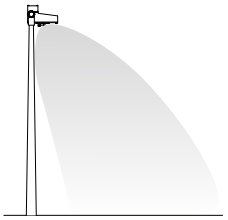
MOKA



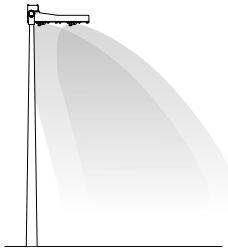
MOKA XL



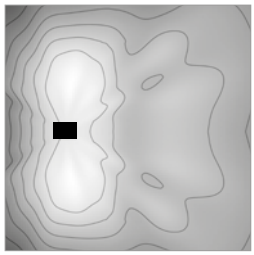
AS2 [OPTIC]



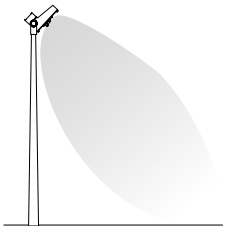
MOKA



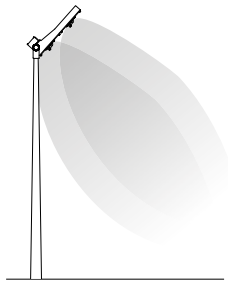
MOKA XL



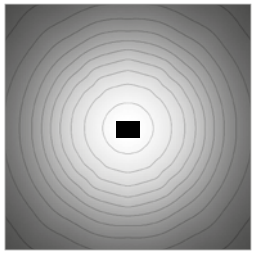
D [OPTIC]



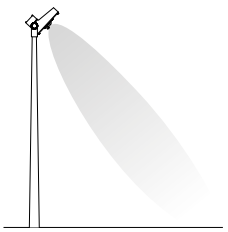
MOKA



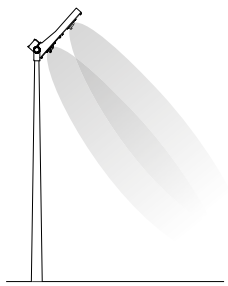
MOKA XL



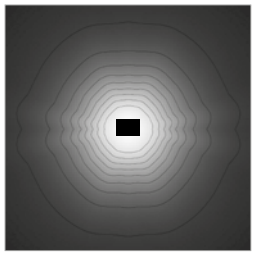
C [OPTIC]



MOKA



MOKA XL

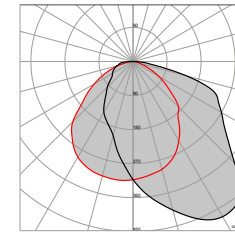


MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014ASW/N**46**	24300	17150	162	> 108	400
KMK26017ASW/N**46**	29000	20650	200	> 103	400
KMK28018ASW/N**46**	31200	23350	204	> 115	400
KMK28022ASW/N**46**	36600	26600	254	> 105	600

W/N= **W** (3000 K) | **N** (4000 K)



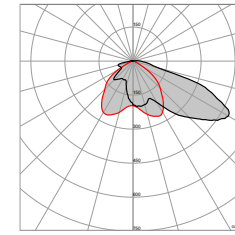
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014AS2W/N**46**	24300	18560	162	> 115	400
KMK26017AS2W/N**46**	29000	21870	200	> 109	400
KMK28018AS2W/N**46**	31200	23650	204	> 116	400
KMK28022AS2W/N**46**	36600	28200	254	> 111	600

W/N= **W** (3000 K) | **N** (4000 K)



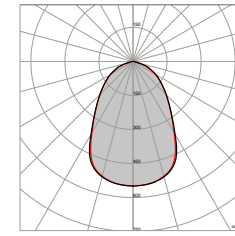
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014DW/N**46**	24300	18790	162	> 116	400
KMK26017DW/N**46**	29000	22150	200	> 111	400
KMK28018DW/N**46**	31200	23950	204	> 117	400
KMK28022DW/N**46**	36600	28540	254	> 112	600

W/N= **W** (3000 K) | **N** (4000 K)



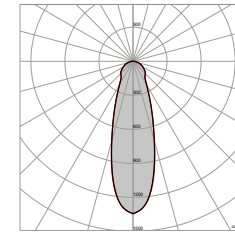
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014CW/N**46**	24300	18160	162	> 112	400
KMK26017CW/N**46**	29000	21390	200	> 107	400
KMK28018CW/N**46**	31200	23450	204	> 115	400
KMK28022CW/N**46**	36600	27580	254	> 109	600

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK26014** **AS** W/N **46**

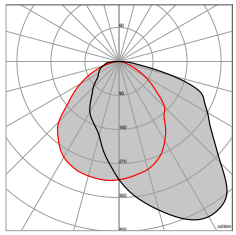
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK26014**

MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020ASW/N**46**	16250	12230	122	> 101	250
KMK18023ASW/N**46**	18890	13960	136	> 103	250

W/N= **W** (3000 K) | **N** (4000 K)



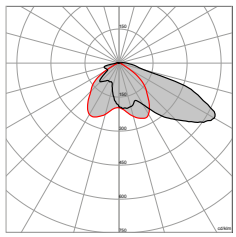
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020AS2W/N**46**	16250	12970	122	> 106	250
KMK18023AS2W/N**46**	18890	14800	136	> 109	250

W/N= **W** (3000 K) | **N** (4000 K)



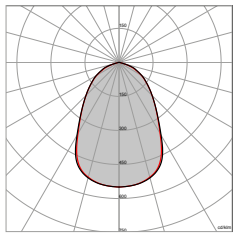
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020DW/N**46**	16250	13120	122	> 108	250
KMK18023DW/N**46**	18890	14980	136	> 110	250

W/N= **W** (3000 K) | **N** (4000 K)



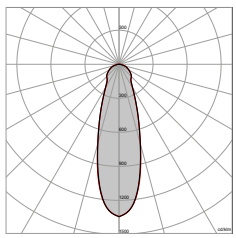
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020CW/N**46**	16250	12690	122	> 104	250
KMK18023CW/N**46**	18890	14480	136	> 106	250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK16020** **AS** W/N **46**

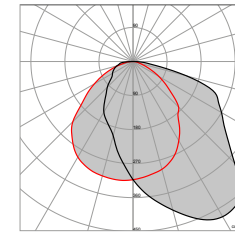
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK16020**

MOKA XL AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014ASW/N**46**	48600	35020	324	> 108	600
KMK46017ASW/N**46**	58000	41300	400	> 103	600
KMK48018ASW/N**46**	62400	46700	408	> 115	1000
KMK48022ASW/N**46**	73200	53200	508	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



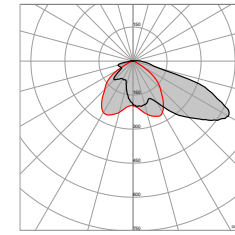
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014AS2W/N**46**	48600	37120	324	> 115	600
KMK46017AS2W/N**46**	58000	43740	400	> 109	600
KMK48018AS2W/N**46**	62400	47305	408	> 116	1000
KMK48022AS2W/N**46**	73200	56400	508	> 111	1000

W/N= **W** (3000 K) | **N** (4000 K)



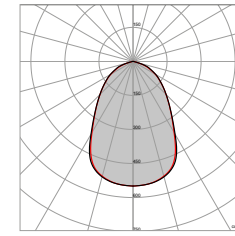
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014DW/N**46**	48600	37580	324	> 116	600
KMK46017DW/N**46**	58000	44300	400	> 111	600
KMK48018DW/N**46**	62400	47900	408	> 118	1000
KMK48022DW/N**46**	73200	57080	508	> 112	1000

W/N= **W** (3000 K) | **N** (4000 K)



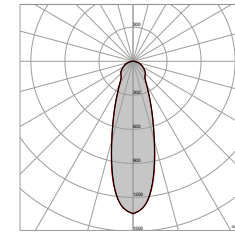
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014CW/N**46**	48600	36320	324	> 112	600
KMK46017CW/N**46**	58000	42780	400	> 107	600
KMK48018CW/N**46**	62400	46300	408	> 114	1000
KMK48022CW/N**46**	73200	55160	508	> 109	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

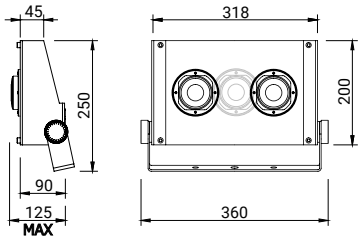
Code Ordering example: **KMK46014** **AS** W/N **46**

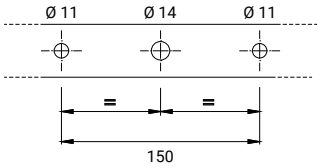
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK46014**

MOKA

DIMENSIONAL + FIXTING

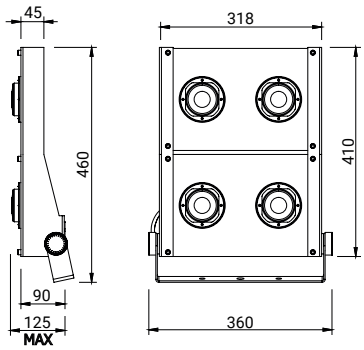
MOKA

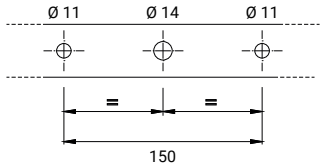




DIMENSIONAL + FIXTING

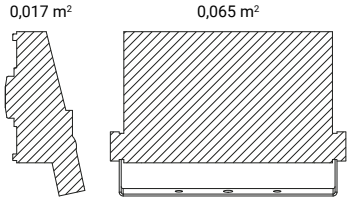
MOKA XL



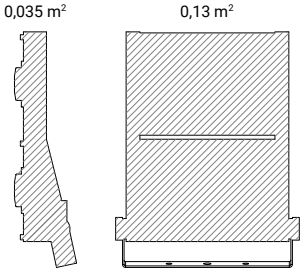


WIND RESISTANCE

MOKA



MOKA XL



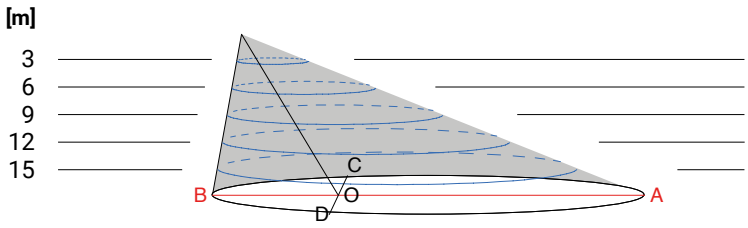
WEIGHT (Kg)

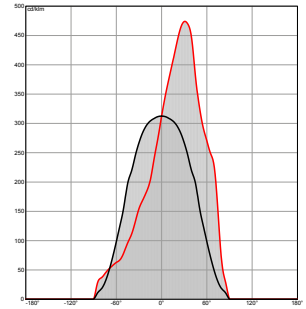
MOKA: **5,7**
MOKA XL: **9,7**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MOKA - MOKA XL: **-20 ~ +45°C**

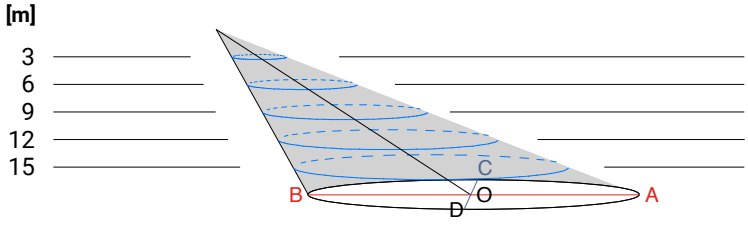
AS [OPTIC]

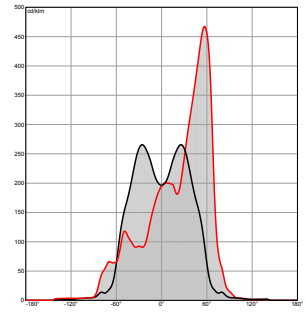




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140	570	110	500	100
6	275	55	230	45	210	40	180	35	145	30	125	25
9	121	25	100	20	95	20	80	15	65	15	55	11
12	7	15	60	11	55	10	45	10	37	7	-	-
15	45	8	40	8	35	7	30	6	-	-	-	-

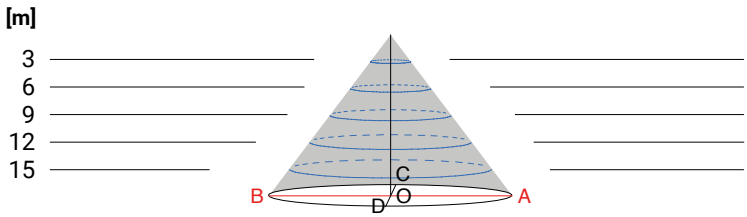
AS2 [OPTIC]

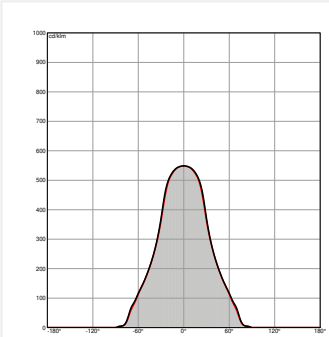




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	615	170	520	140	475	130	405	110	325	90	290	80
6	160	45	130	35	120	35	100	27	80	25	70	20
9	70	20	60	16	55	15	45	12	36	10	31	8
12	40	10	32	10	30	8	25	7	-	-	-	-
15	25	7	21	6	-	-	-	-	-	-	-	-

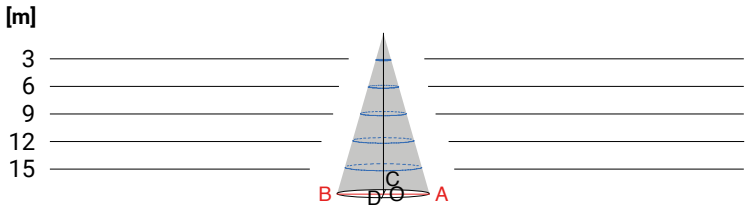
D [OPTIC]

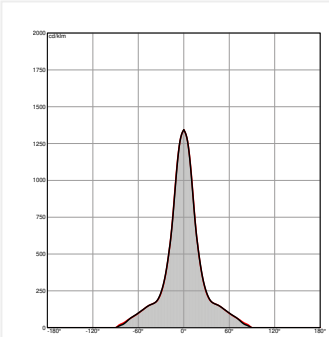




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1742	815	1420	660	1350	630	1150	535	915	430	800	375
6	435	205	355	165	340	160	290	135	230	106	200	95
9	195	90	160	75	150	70	130	60	105	50	90	40
12	110	51	90	41	85	39	75	35	60	30	50	25
15	70	32	60	26	55	25	46	21	40	20	32	15

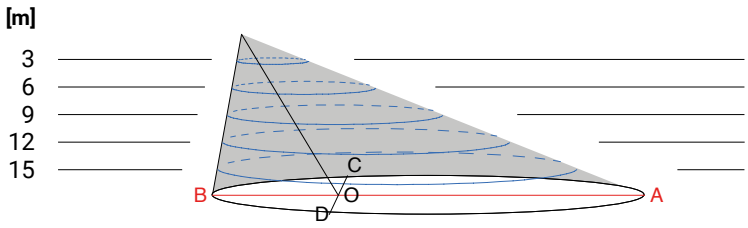
C [OPTIC]

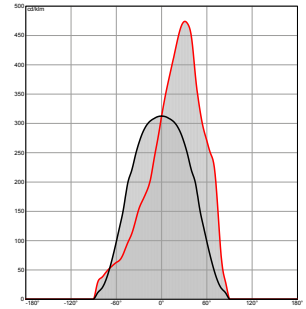




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	4115	2570	3330	2080	3095	1995	2710	1670	2165	1350	1900	1185
6	1030	650	835	520	800	500	680	425	540	340	475	300
9	460	290	370	230	355	225	300	190	240	150	210	131
12	260	161	210	130	200	125	170	110	135	85	120	75
15	165	105	135	85	130	80	110	70	86	55	76	50

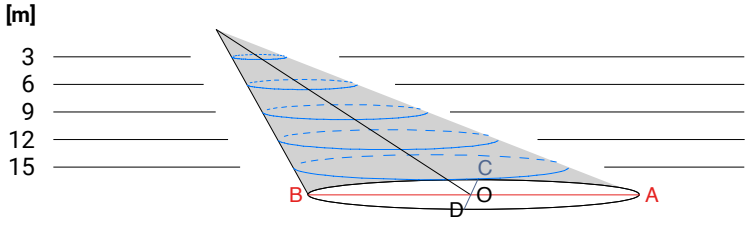
AS [OPTIC]

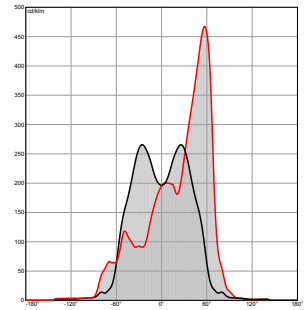




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140
6	275	55	230	45	210	40	180	35
9	121	25	100	20	95	20	80	15
12	7	15	60	11	55	10	45	10
15	45	8	40	8	35	7	30	6

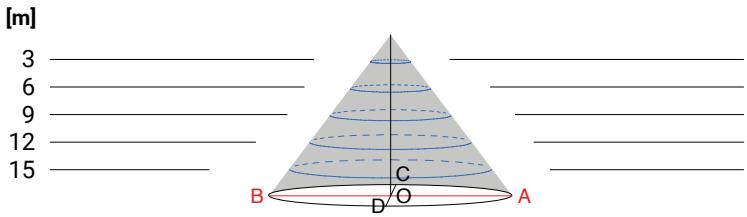
AS2 [OPTIC]

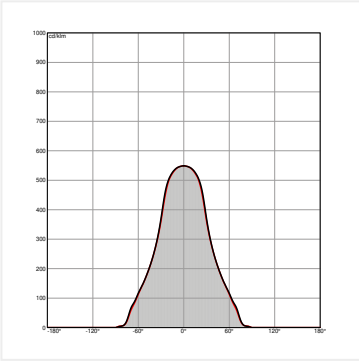




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1220	245	1025	205	945	190	800	160
6	305	60	260	51	240	47	200	40
9	140	30	115	25	105	21	90	18
12	76	15	65	13	60	12	50	10
15	50	10	41	8	38	7	32	6

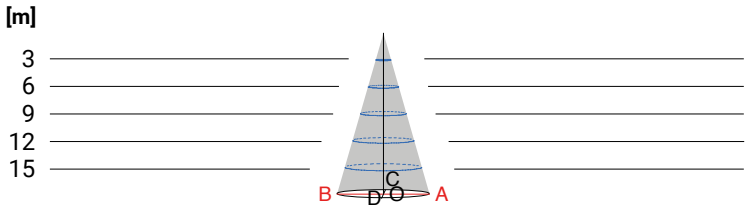
D [OPTIC]

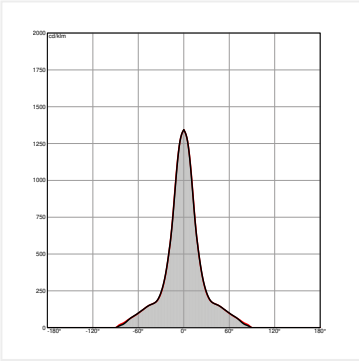




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3485	1625	2840	1320	2705	1260	2295	1070
6	870	405	710	330	675	315	575	270
9	390	180	315	150	300	140	255	120
12	220	100	180	85	170	80	145	70
15	140	65	115	55	110	50	95	45

C [OPTIC]



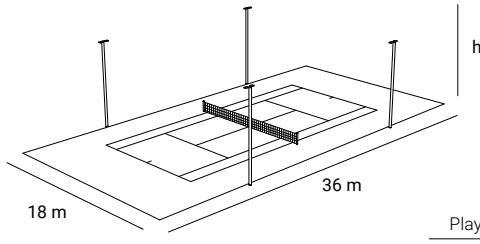


	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	8250	5150	6655	4155	6385	3990	5425	3385
6	2060	1290	1665	1040	1595	445	1355	850
9	915	570	740	465	710	445	600	375
12	515	320	420	260	400	250	340	215
15	330	205	265	165	255	160	220	135

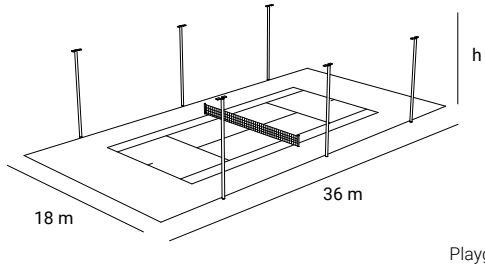
Application (Tennis Court)



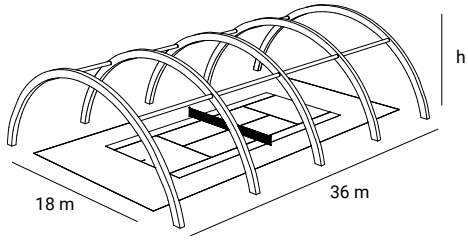
Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	4 x h= 8 m	165 Lx	no.8 KMK26014AS2N
23,8x10,8 m	4 x h= 8 m	200 Lx	no.8 KMK26017AS2N
23,8x10,8 m	4 x h= 8 m	250 Lx	no.8 KMK28022AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	6 x h= 8 m	300 Lx	n.12 KMK26017AS2N
23,8x10,8 m	6 x h= 10 m	500 Lx	n.12 KMK46017AS2N



Playground Area	Lines	Lux Value Result	Light Fittings Required
23,8x10,8 m	2x5 pezzi x h= 7,5 m	300 Lx	n.10 KMK26017AS2N

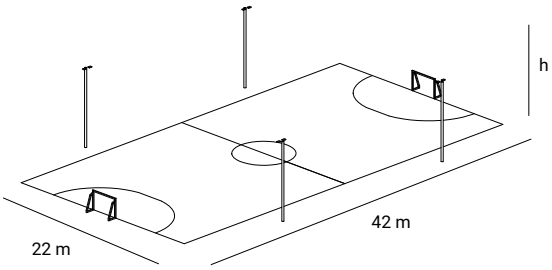


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

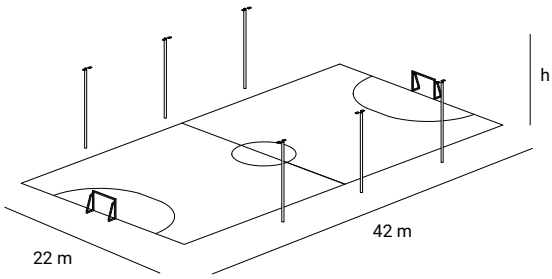
Application (Futsal)



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	4 x h= 9 m	100 Lx	n.8 KMK26017AS2N
42x22 m	4 x h= 9 m	200 Lx	n.8 KMK46017AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	6 x h= 10 m	130 Lx	n.12 KMK26017AS2N
42x22 m	6 x h= 10 m	250 Lx	n.12 KMK46017AS2N

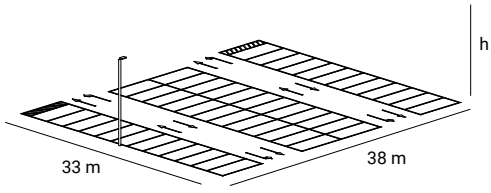


Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

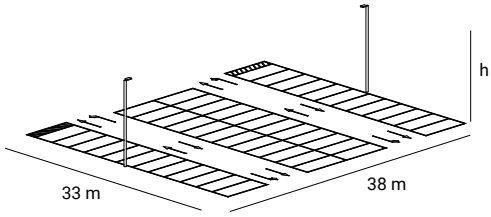
Application (Parking)



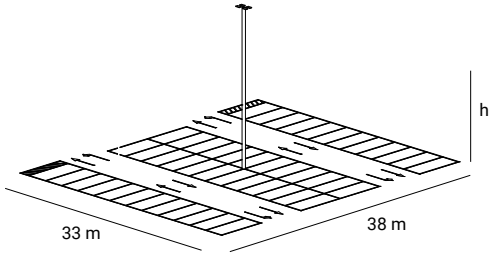
Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 8 m	5 Lx	n.1 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	2 x h= 8 m	10 Lx	n.2 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 15 m	20 Lx	n.4 KMK26014AS2N



Norm	Activity	Light Fittings Required
UNI EN12464	Light Traffic	5 Lx
UNI EN12464	Medium Traffic	10 Lx
UNI EN12464	Heavy Traffic	20 Lx











GRUPPO RAINA
L'unione fa la luce.



GURU AS-R

GURU AS-R





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer.Complete with outgoing cable L= 600 mm. LED light source Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Fornito completo di cavo uscente l=600 mm. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Fourni de câble sortant L=600 mm.Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Se suministra completo con cable saliente L=600 mm. Fuente de luz LED. Emisión directa.

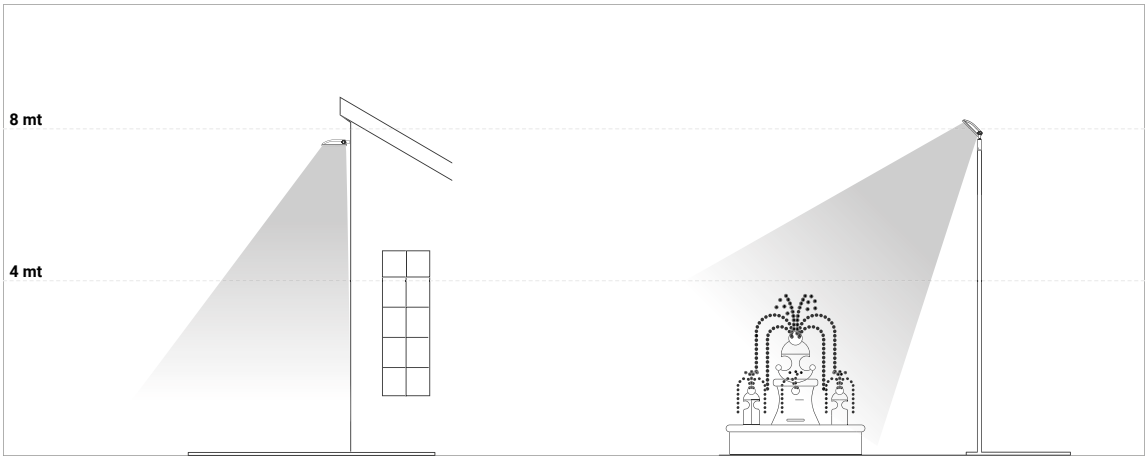
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Komplett mit abgehendem Kabel L = 600 mm. LED-Lichtquelle. Direkte Lichtemission.

RU

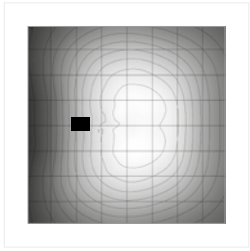
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром.В комплекте с исходящим кабелем L = 600 мм
Светодиодный источник света. Прямой поток света.

GURU

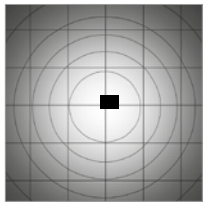


GURU [AS]

GURU [R]



GURU AS



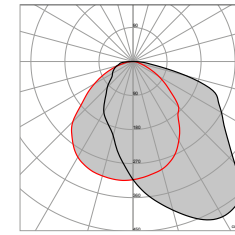
GURU R

GURU AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005ASW/N**08**	3190	2165	18	> 121	HG80
KGU14007ASW/N**08**	4400	2980	26	> 114	HG80
KGU14008ASW/N**08**	4980	3490	31	> 112	SAP70
KGU14010ASW/N**08**	6110	4330	40	> 108	HG125
KGU14014ASW/N**08**	8250	5595	54	> 104	SAP100
KGU18016ASW/N**08**	13800	9365	90	> 105	HG400
KGU24010ASW/N**08**	11450	8885	81	> 110	JM250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

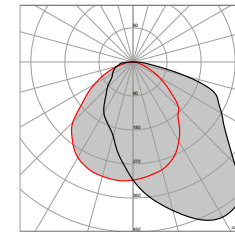
C

GURU R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005RW/N**08**	3190	2515	18	> 139	HG80
KGU14007RW/N**08**	4400	3460	26	> 133	HG80
KGU14008RW/N**08**	4980	4010	31	> 129	SAP70
KGU14010RW/N**08**	6110	5020	40	> 125	HG125
KGU14014RW/N**08**	8250	6520	54	> 120	SAP100
KGU18016RW/N**08**	13800	10860	91	> 120	HG400

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

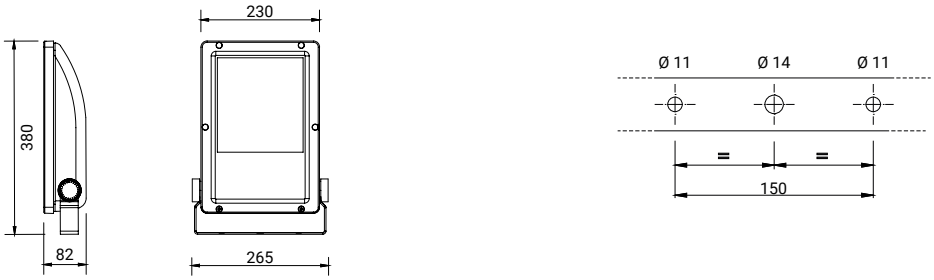
Code

Code Ordering example: **KGU14005** **AS** W/N **08**

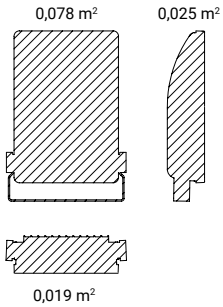
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KGU14005**

GURU AS-R

DIMENSIONAL + FIXTING

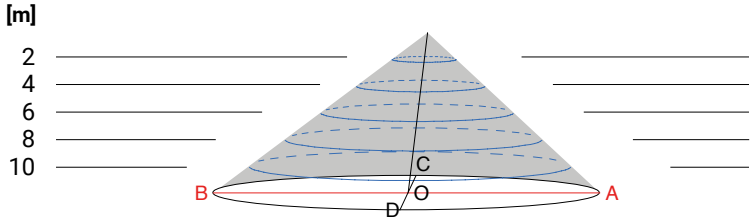


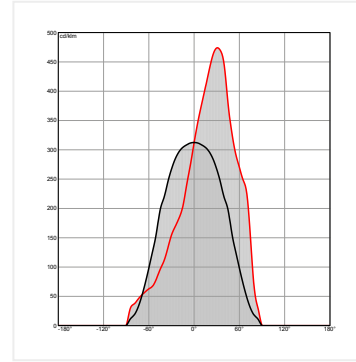
WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**

AS [OPTIC]

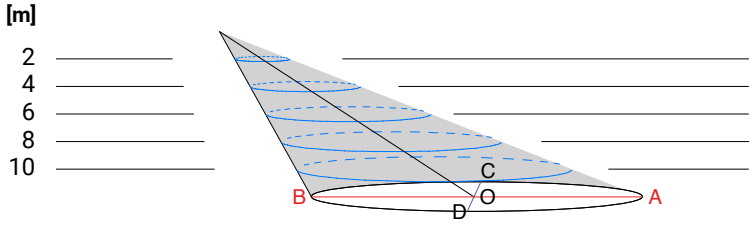


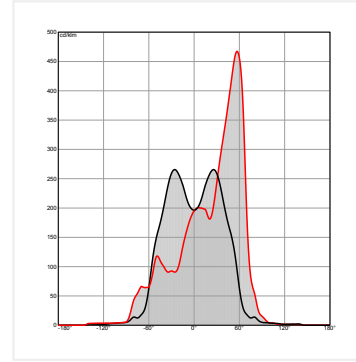


	KGU14005AS		KGU14007AS		KGU14008AS		KGU14010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	230	30	320	40	375	45	460	55
4	60	8	80	10	95	12	115	15
6	26	3	35	4	40	5	50	6
8	-	-	-	-	-	-	30	3
10	-	-	-	-	-	-	-	-

	KGU14014AS		KGU24010AS		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	600	75	950	115	1000	125
4	150	20	240	30	250	30
6	70	10	105	13	110	15
8	40	5	60	7	65	8
10	25	3	38	4	40	5

R [OPTIC]





	KGU14005R		KGU14007R		KGU14008R		KGU14010R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	360	140	495	195	570	225	715	280
4	90	35	125	50	145	60	180	70
6	40	16	55	22	65	25	80	31
8	22	9	31	12	40	14	45	18
10	14	6	20	8	25	10	30	11

	KGU14014R		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
2	930	365	1550	610
4	235	90	390	155
6	105	40	175	70
8	60	25	100	40
10	40	15	65	25



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)


COLOMBO
GRUPPO RAINA



GURU PRO AS-R

GURU PRO AS - R





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
6 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Fuente de luz LED.
Emisión directa.

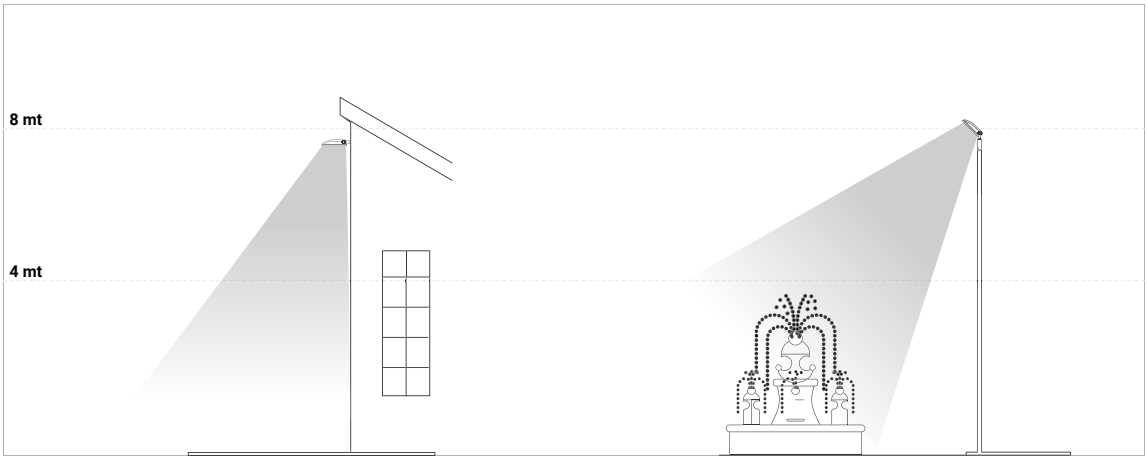
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt. LED-Lichtquelle. Direkte Lichtemission.

RU

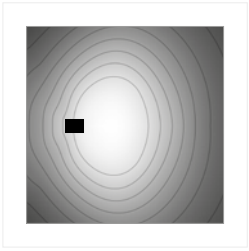
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Светодиодный источник света. Прямой поток света.

GURU PRO

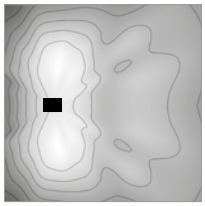


GURU PRO [AS]

GURU PRO [R]



GURU PRO AS



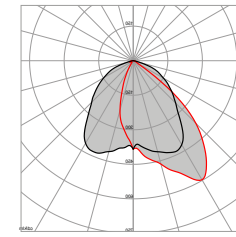
GURU PRO R

GURU PRO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016ASW/N**08**	13500	9155	95	> 97	SAP150
KGP16018ASW/N**08**	14900	10100	107	> 95	JM250
KGP18022ASW/N**08**	18300	12410	132	> 94	HG400
KGP18027ASW/N**08**	21730	14730	160	> 92	HG400
KGP24010ASW/N**08**	12780	8870	80	> 110	SAP150
KGP24014ASW/N**08**	16495	11185	90	> 108	JM250
KGP26008ASW/N**08**	14550	9870	90	> 109	JM250
KGP26010ASW/N**08**	18660	12650	120	> 105	HG400
KGP26014ASW/N**08**	24080	16990	165	> 102	SAP250
KGP28017ASW/N**08**	29160	19775	198	> 100	JM400

W/N= **W** (3000 K) | **N** (4000 K)



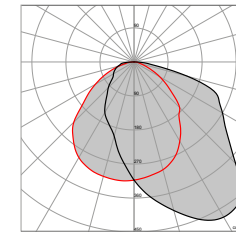
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU PRO R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016RW/N**08**	13500	10620	95	> 112	JM250
KGP16018RW/N**08**	14900	11720	107	> 110	HG400
KGP18022RW/N**08**	18300	14395	132	> 109	HG400
KGP18027RW/N**08**	21730	17090	160	> 107	SAP250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

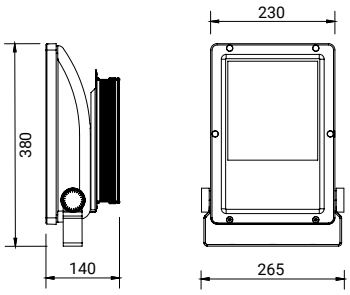
Code

Code Ordering example: **KGP16016** **AS** W/N **08**

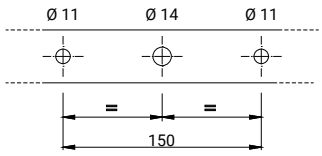
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KGP16016**

GURU PRO AS-R

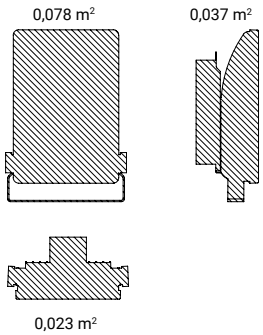
DIMENSIONAL



FIXTING



WIND RESISTANCE



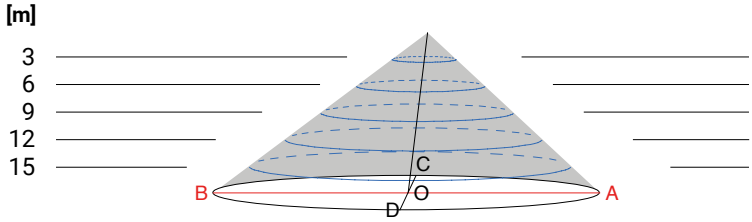
WEIGHT (Kg)

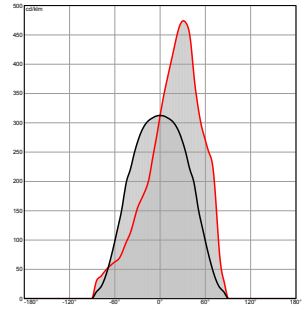
6,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C

AS [OPTIC]



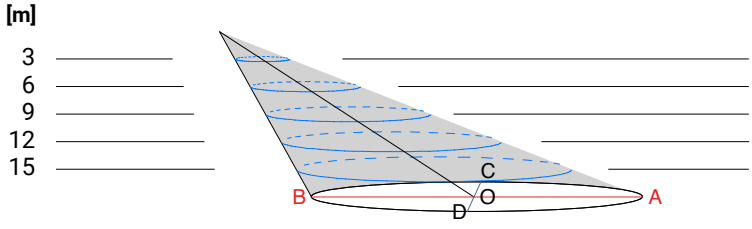


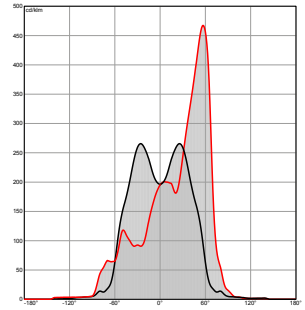
	KGP16016AS		KGP16018AS		KGP18022AS		KGP18027AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	433	52	478	58	587	71	697	84
6	108	13	120	14	147	18	174	21
9	48	6	53	6	65	8	77	9
12	-	-	30	4	37	4	44	5
15	-	-	-	-	-	-	-	-

	KGP24010AS		KGP24014AS		KGP260008AS		KGP26010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	420	51	529	64	467	56	599	72
6	105	13	132	16	117	14	150	18
9	47	6	59	7	52	6	67	8
12	-	-	33	4	29	4	37	5
15	-	-	-	-	-	-	-	-

	KGP26014AS		KGP28017AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	773	93	936	113
6	193	23	234	28
9	86	10	104	13
12	48	6	58	7
15	31	4	37	5

R [OPTIC]





	KGP16016R		KGP16018R		KGP18022R		KGP18027R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	690	275	750	300	940	370	1100	430
6	175	70	190	75	235	95	275	110
9	75	30	85	35	105	45	125	45
12	45	18	50	20	60	25	70	30
15	28	10	30	12	40	15	45	18



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)



GRUPPO RAINA
L'unione fa la luce.



ASSO

ASSO



	CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 06 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471

6 Kv			CAE ON/OFF	02 BLACK	5Y WARRANTY 5% FAILURE RATE	60.000 h LED LIFETIME L90B10	

EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. LED light source. Molded PMMA optics with high optical efficiency. High frequency (CAE) ballast in separate IP65 box fixed to the body.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Fuente de luz LED. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile, completa di goniometro, in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, . Ottiche in PMMA stampato ad alto rendimento ottico. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Emissione diretta. Sorgente luminosa LED.

DE

Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

FR

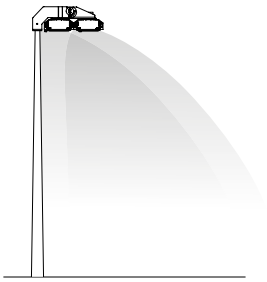
Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Emission directe. Source lumineuse LED. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Alimentation électronique CAE externe IP65 fixée au corps.

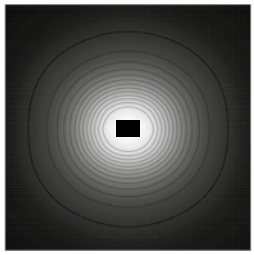
RU

Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Прямой поток света. Светодиодный источник света. Оптика из ПММА с высокой оптической эффективностью. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

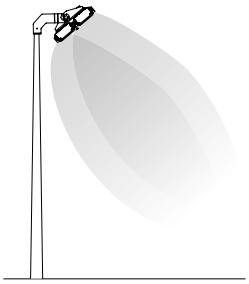
Beams [ASSO 96-120-180-216]

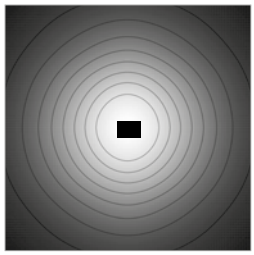
S [OPTIC]



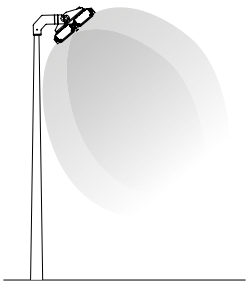


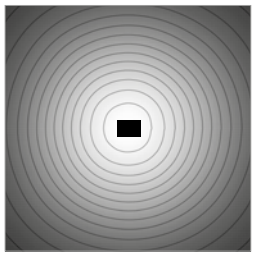
M [OPTIC]



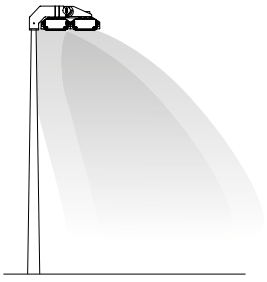


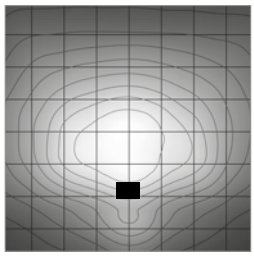
D [OPTIC]





T4 [OPTIC]



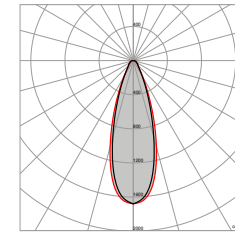


ASSO 96 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96SW/N**02**	64475	60540	455	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



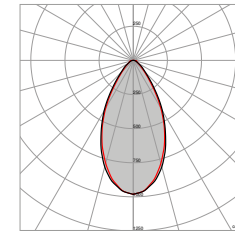
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96MW/N**02**	64475	60050	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



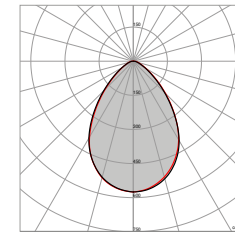
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96DW/N**02**	64475	61150	455	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



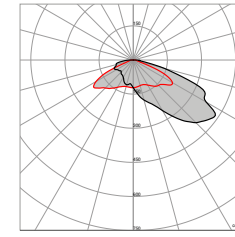
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96TW/N**02**	64475	59960	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS96** **S** W/N **02**

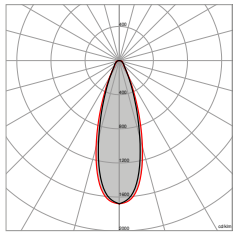
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS96**

ASSO 120 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120SW/N**02**	80590	75670	569	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



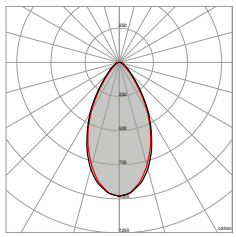
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120MW/N**02**	80590	75050	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



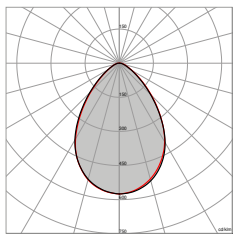
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120DW/N**02**	80590	76440	569	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



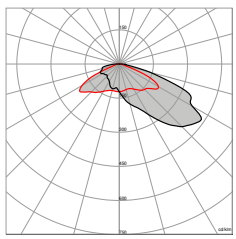
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120TW/N**02**	80590	74950	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS120** **S** W/N **02**

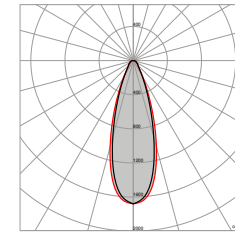
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS120**

ASSO 180 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180SW/N**02**	120890	113505	854	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



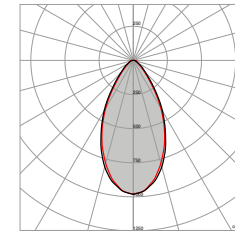
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180MW/N**02**	120890	112580	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



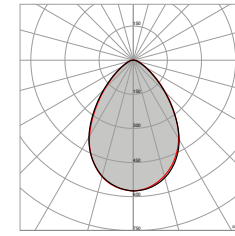
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180DW/N**02**	120890	114670	854	> 134	1500

W/N= **W** (3000 K) | **N** (4000 K)



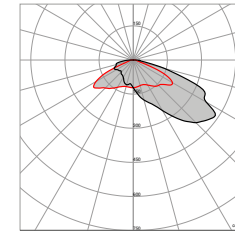
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180TW/N**02**	120890	112430	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS180** **S** W/N **02**

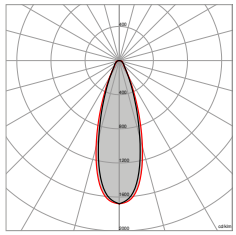
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS180**

ASSO 216 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216SW/N**02**	145060	136205	1025	> 133	2000

W/N= **W** (3000 K) | **N** (4000 K)



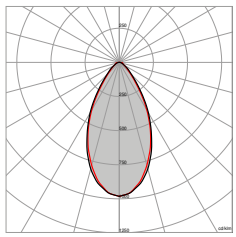
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216MW/N**02**	145060	135100	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



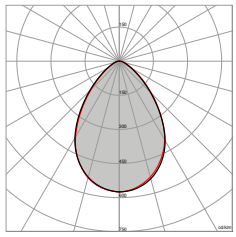
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216DW/N**02**	145060	137595	1025	> 134	2000

W/N= **W** (3000 K) | **N** (4000 K)



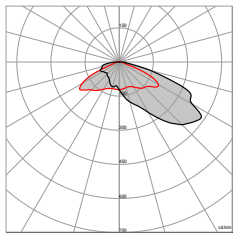
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216TW/N**02**	145060	134900	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

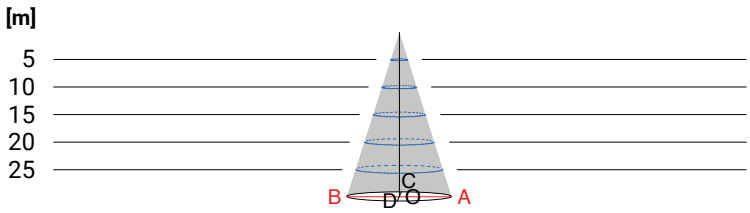
Code

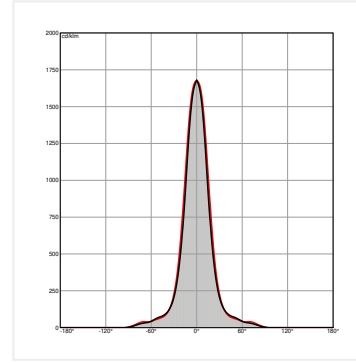
Code Ordering example: **KSS216** **S** W/N **02**

- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS216**

Beams [ASSO 96-120-180-216]

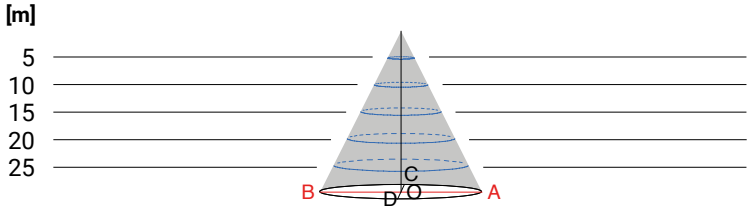
S [OPTIC]

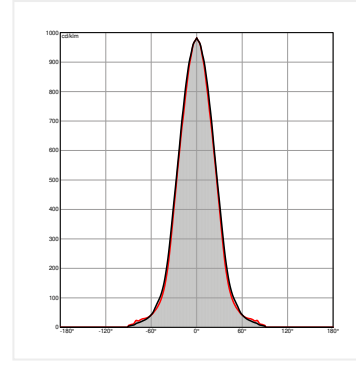




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	4360	2625	5450	3232	-	-	-	-
10	1100	660	1365	820	2050	1231	2450	1480
15	485	290	605	365	910	550	1090	656
20	275	165	340	205	510	310	615	370
25	175	105	220	130	330	200	395	240

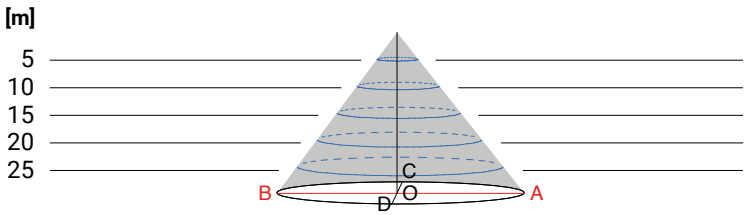
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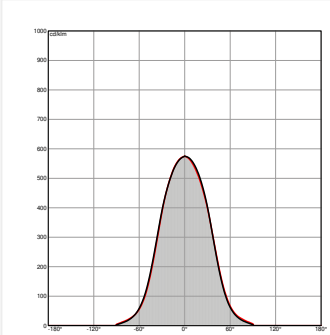




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	2550	1315	3180	1650	4770	2470	-	-
10	640	330	795	415	1200	620	1430	740
15	285	150	355	185	530	275	640	330
20	160	85	200	105	300	155	360	185
25	105	55	130	70	190	100	230	120

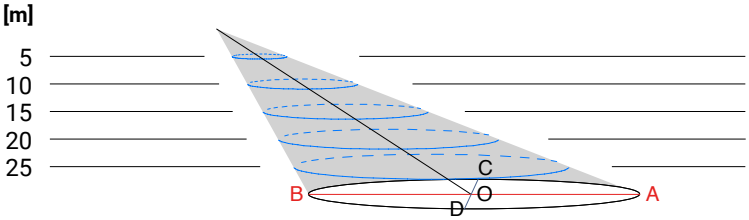
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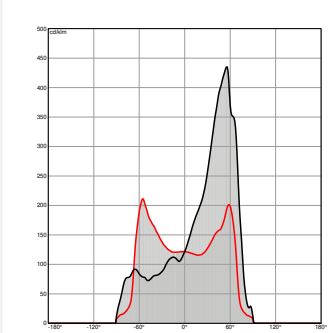




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	1485	670	1855	840	2780	1260	3340	1510
10	370	170	465	210	695	315	835	380
15	165	75	205	95	310	140	370	170
20	95	45	120	55	175	80	210	95
25	60	30	75	35	115	50	135	60

T4 [OPTIC]



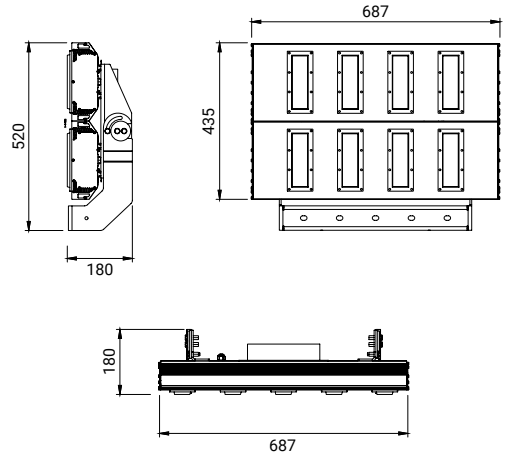


	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	430	85	540	110	810	160	920	145
10	110	21	135	30	205	40	230	35
15	50	9	60	12	90	18	105	20
20	27	5	35	7	50	10	57	12
25	17	3	22	4	32	6	37	8

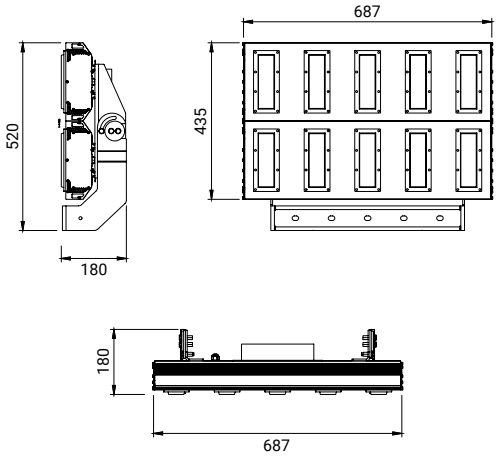
ASSO 96 - 120

DIMENSIONAL

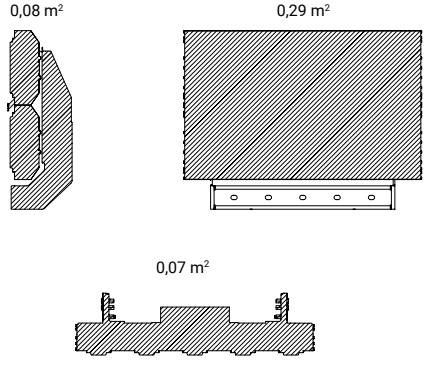
ASSO 96

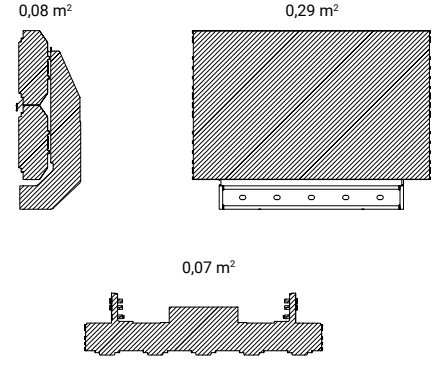


ASSO 120



WIND RESISTANCE





WEIGHT (Kg)

ASSO 96: **26,0** - ASSO 120: **26,0**

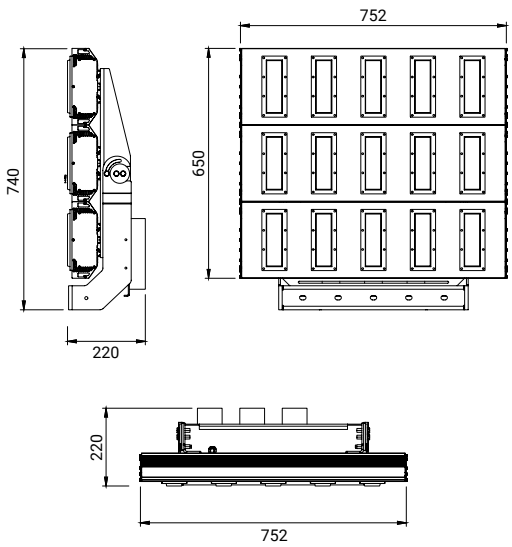
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 96 - 120: **-20 ~ +45°C**

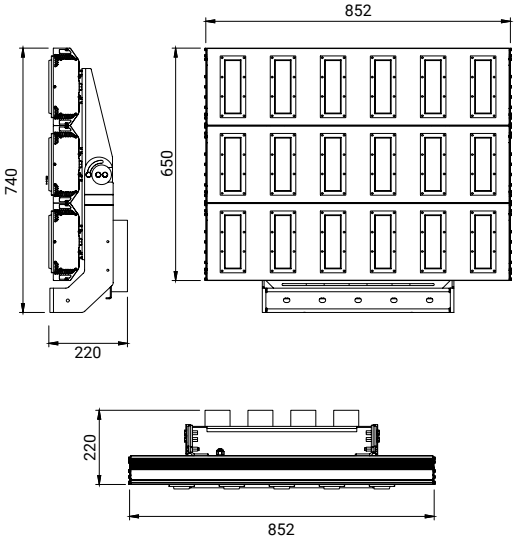
ASSO 180 - 216

DIMENSIONAL

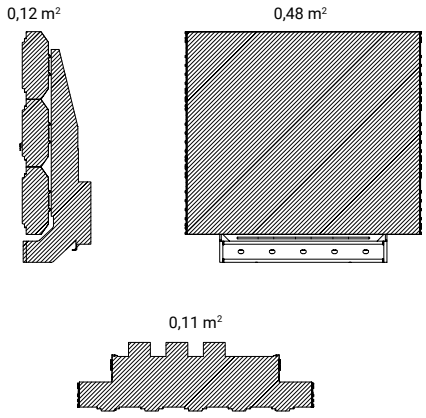
ASSO 180

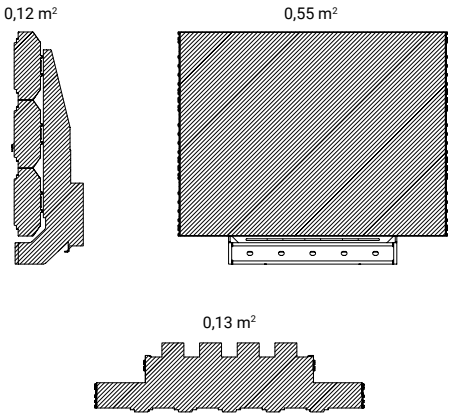


ASSO 216



WIND RESISTANCE





WEIGHT (Kg)

ASSO 180: **45,0** - ASSO 216: **50,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 180 - 216: **-20 ~ +45°C**

GRUPPO RAINA

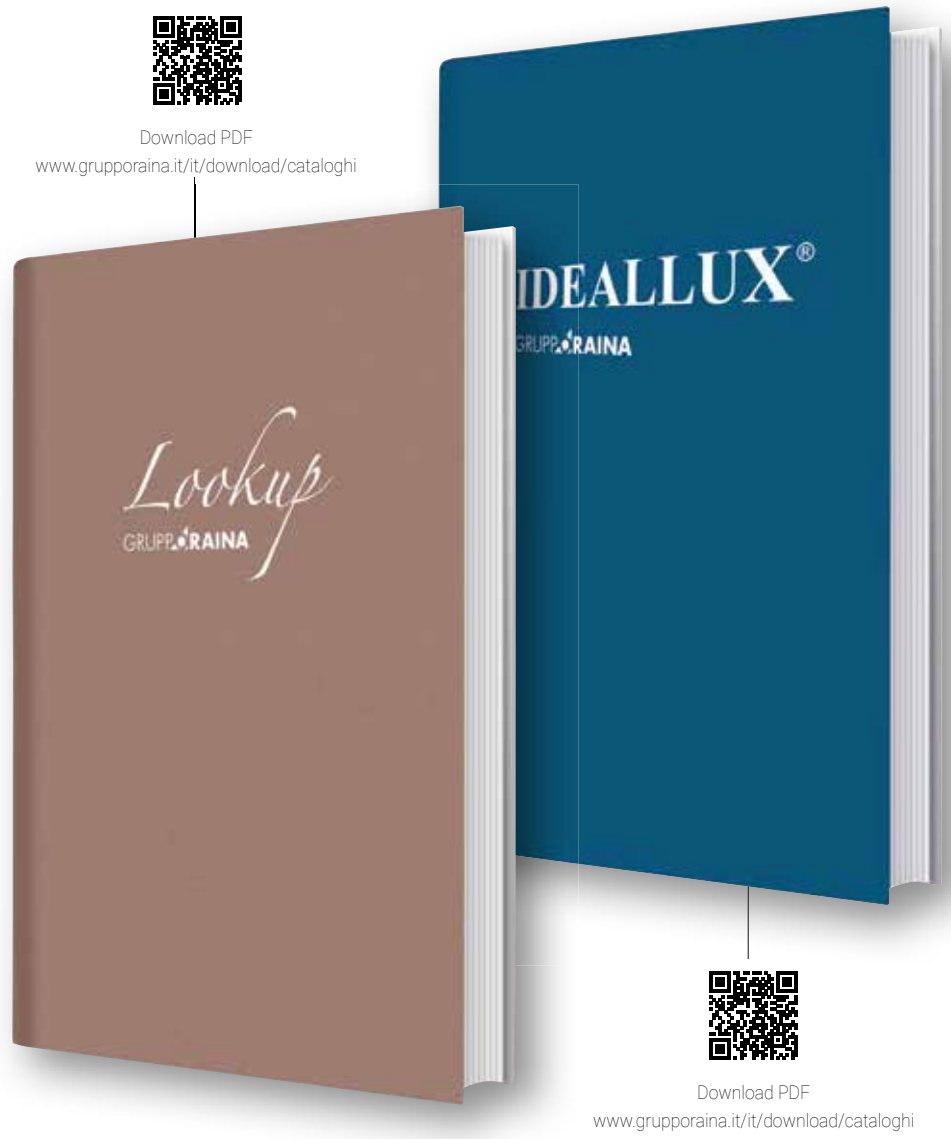
L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

LOOKUP® - IDEALLUX® PRESENTATION



EN
IDEALLUX® historic production specializing in the manufacture and sale of lighting fittings for the industrial and tertiary sector. LOOKUP® new and wide range of decorative and architectural appliances.

IT
IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. LOOKUP® nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
IDEALLUX® production historique spécialisée dans la fabrication et la vente d'appareils destinés aux secteurs industriels et du tertiaire. LOOKUP® nouvelle et ample gamme d'appareils décoratifs et architecturaux.

ES
IDEALLUX® producción histórica especializada en la fabricación y venta de luminaria para los sectores industriales y terciario. LOOKUP® nueva y amplia gama de luminarias decorativas y arquitectónicas.

DE
IDEALLUX® historische Produktion, spezialisiert auf die Herstellung und den Verkauf von Leuchten für die Industrie und tertiären Sektors. LOOKUP® neue und breite Palette dekorativen und architektonischen Geräten.

RU
Историческое производство IDEALLUX®, специализирующееся на производстве и продаже устройств для промышленного сектора и третичного сектора. LOOKUP® с его новым и широким ассортиментом декоративных и архитектурных приборов.

Lookup

CATALOGUE PRESENTATION

PRODUCTS

SUSPENSION


Aquadro i-L


Eliot i-L


Nori i-L


Jeè i-L


Squak


Loft


Maciste


Round


Round IP55


Arrondo


Ufo


Tubì CM-S

Adalpina


Circo


Olimpia


Libra


Opalia i-L


Bolerino

WALL


Alba


Tink


Faces M


Calea


Zoe M - Zoe


Talè M - Talè


Ester


Dudu


Dosi


Gina


Malì S-AM


Leila


Norton


Pia


Trem


Bombei M


Pla

Lookup

CATALOGUE PRESENTATION

PRODUCTS

FLOOR


Amadeus


Silence


Utile


Zero


Birba


Furba

RECESSED


Demi Led


Sei


Uno


Rio


Nero


Hollow

TABLE LAMP


Lina


Squadra


Sphere


Stilo

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PRODUCTS

A SUSPENSION | CEILING RECESSED | TRIMLESS | CONTINUOS LINE


Algebra OP


Algebra MP


Algebra Small OP


Algebra Small MP


Algebra Micro OP


Algebra Micro MP


Algebra System OP


Algebra System MP


Algebra System Small OP


Algebra System Small MP


Algebra System Micro OP


Algebra System Micro MP


Giunti Luminosi
A.S. OP/MP


Giunti Luminosi
A.S. SMALL OP/ MP


Giunti Luminosi
A.S. MICRO OP/ MP

B SUSPENSION | CEILING | WALL


Flooting Led
Dir.


Flooting Led
Dir./Ind.


Flat Line Led Dark-Dir.


Flat Line Led Dark-Dir./Ind.


Relax Led Spa


Relax Led Spa R


Relax Led


Relax Led R


BB Teck


BB Led


Flat Smash Led


Gardena Led

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

C DECORATIVE SUSPENSION | CEILING



Basket Led
Basket Led IP 55



Jerrimo



Plato



Luly Shop



Bolero Shop



Coco Led

D LED LIGHT BATTEN " EXTENDABLE”



Dedica HF



Dedica ASL HF



Profili HF



Rek Led

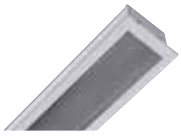


Rek Led Sensor

E RECESSED



Alg Up OP



Alg Up MP



Alg Up Small
OP



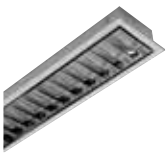
Alg Up Small
MP



Alg Up Micro
OP



Alg Up Micro
MP



Controled EB Dark



Controled EB UGR



Controled EB
OPAL



Controled SPA



Controled SPA
2 Luci



Controled SPA R

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PRODUCTS

E RECESSED


Contro Flat Led MP


Moreflat MP


Controplus UGR

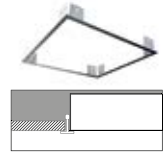

Controplus OPAL


Controplus R UGR


Controplus R OPAL


Compatta UGR


Contro Clip-In UGR


Telai/*Frames*

Adrian

Adrian UGR

F RECESSED DOWNLIGHT


Clock Led S


Clock Led T


Clock Led MP


New Remisi 230 (S)


New Remisi 230 (M)


New Remisi 200 (S)


New Remisi 200 (M)


Doria 230 (VS)


Doria 190 (VS)


Spotled OP


Spotled MP


Inca 150


Inca 125


New White 230


New White 200


New White 150


Enne


Sii

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

G ADJUSTABLE RECESSED


Automa Led (1)


Automa Led (2)


Automa Led (3)


Giro Led (1)


Giro Led (2)


Giro Led (3)


Mini Giro


Roller Led


Mini Automa Led (1)


Mini Automa Led (2)


Mini Automa Led (3)


Rumba Led


Flamenko Led


Jwe Led


Mambo Led

H TRACK LIGHTS


Beba


Lerica


Vale


Don


Smile


Binario Dali

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PRODUCTS

CONTINUOS LINE SYSTEMS


Bingo Led


Bingo System Led


Bingo System Led Plus


Binlens System EX


Binlens System ST


Binlens System BT

INDUSTRIAL & COMMERCIAL


AMBI U


AMBI I


Futura


Futura Plus


Futura Small


Futura IP55D


Dundi LED


DN Led


Essential COB


Essential


Luly


Bolero


Plike R


Plike Q


Sottile R


Sottile Q

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

INNOVA XL



Innova XL 1500
Satinato/*Satin*



Innova XL 1200
Satinato/*Satin*



Innova XL SM 600
Satinato/*Satin*



Innova XL 1500
Opale/*Opal*



Innova XL 1200
Opale/*Opal*



Innova XL
INTENSIVE



Innova XL DARK



Innova XL
SAHARA +70°C

INNOVA



Innova
VARIO KELVIN®



Innova MEGA
1500
Satinato/*Satin*



Innova MEGA
1200
Satinato/*Satin*



Innova MEGA 1500
Opale/*Opal*



Innova MEGA
1200
Opale/*Opal*



Innova MEGA
1500
Rigato/*Ribbed*



Innova MEGA 1200
Rigato/*Ribbed*



Innova 1500
Satinato/*Satin*



Innova 1200
Satinato/*Satin*



Innova 600
Satinato/*Satin*



Innova 1500
Opale/*Opal*



Innova 1200
Opale/*Opal*

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PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

INNOVA


Innova 600
Opale/*Opal*


Innova 1500
Rigato/*Ribbed*


Innova 1200
Rigato/*Ribbed*


Innova 600
Rigato/*Ribbed*


Innova
INTENSIVE


Innova
CONCENTRANTE


Innova PARK


Innova
ASIMMETRICA


Innova ARCTIC
-25°C + 40°C


Innova ARCTIC
-40°C + 40°C


Innova SAHARA
-20°C + 70°C


Innova LONG 3000
Satinato/*Satin*


Innova LONG 2400
Satinato/*Satin*


Innova LONG 1900
Satinato/*Satin*


Innova LONG
3000
Opale/*Opal*


Innova LONG 2400
Opale/*Opal*


Innova LONG 1900
Opale/*Opal*


Innova LONG 3000
Rigato/*Ribbed*


Innova LONG 2400
Rigato/*Ribbed*


Innova LONG 1900
Rigato/*Ribbed*


Innova UT
Satinato/*Satin*


Innova UT
Opale/*Opal*


Innova 110V


Innova 48V


Innova 24V

PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

ZITA



ZITA
Opale/*Opal*



ZITA RAPID
Opale/*Opal*



ZITA 3P
Opale/*Opal*



ZITA 5P
Opale/*Opal*



ZITA LONG 3P
Opale/*Opal*



ZITA LONG 5P
Opale/*Opal*

CHEMICAL AGENTS RESISTANCE (ART. 520)

AGENTE CHIMICO	*CHEMICAL AGENT*	POLICARBONATO (PP) | POLYCARBONATE		
		RESISTENTE *RESISTANT*	NON RESISTENTE *NOT RESISTANT*	RESISTENTE MODERATA-MENTE *MODERATELY RESISTANT*
olio diesel-nafta	*diesel-naphta*			•
olii minerali	*mineral oils*		•	
olii e grassi alimentari	*dietary oils and fats*			•
acetone	*acetone*		•	
acido acetico 10%	*acetic acid 10%*	•		
acido arsenico 10%	*arsenic acid*	•		
acido carbonico	*carbonic acid*		•	
acido citrico 20%	*citric acid 20%*	•		
acido cloridrico 1-5%	*hydrochloric acid 1-5%*	•		
acido cromico	*chromic acid*			•
acido formico 30%	*formic acid 30%*		•	
acido nitrico 20%	*nitric acid 20%*			•
acido perclorico 10%	*perchloric acid 10%*	•		
acido solforico 30%	*sulphuric acid 30%*	•		
olii siliconici	*silicone acids*	•		
alcool benzilico	*benzyl alcohol*		•	
alcool etilico	*ethylene alcohol*	•		
alcool isopropilico	*isopropyl alcohol*		•	
ammoniaca 5%	*ammonia 5%*		•	
anilina	*aniline*			•
zucchero	*sugar*			•
zolfo	*sulphur*	•		
bevande alcoliche	*alcoholic drinks*	•		
benzene	*benzene*		•	
benzolo	*benzol*		•	
bromo	*bromine*			•
bromuro di potassio	*potassium bromide*	•		
caustica potassio	*potassium caustic*		•	
cemento	*concrete*	•		
clima marino	*marine climate*	•		
cloro liquido (vapori)	*liquid chlorine*		•	
cloroformio	*chloroform*		•	
cloruro di calcio	*calcium chloride*	•		
cloruro di ferro	*iron chloride*			•
cloruro di etile	*ethyl chloride*		•	
cloruro di sodio	*sodium chloride*	•		
cloruro solforico	*sulphuric chloride*		•	
etiletere	*ethyl ether*		•	
fenolo	*phenol*	•		
benzina	*gasoline*			•
glicerina	*glycerol*			•
esano	*hexane*		•	
idrocarburi	*hydrocarbone*		•	
idrossido sodico 5%	*sodium hydroxide 5%*		•	
candeggina di soda	*soda bleach*	•		
mercurio	*mercury*		•	
metanolo	*methanol*	•		
nitrato di calcio	*calcium nitrate*	•		
nitrato di potassio	*potassium nitrate*	•		
ossigeno	*oxygen*	•		
ozono	*ozone*	•		
permanganato di potassio	*potassium permanganate*			•
petrolio	*petrolium*	•		
soda	*soda*	•		
solfato di alluminio	*aluminum sulfate*	•		
solfato di zinco	*zinc sulfate*	•		
solfato di rame	*copper sulfate*	•		
solfato di manganese	*manganese sulfate*	•		
solfato di sodio	*sodium sulfate*		•	
tetracloruro di carbonio	*carbon tetrachloride*		•	
tricloroetilene	*trichloroethylene*		•	
iodio	*iodine*		•	

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
UFFICI	***OFFICE***				
Scrittura, lettura ed elaborazione dati	*Writing, reading and data processing*	500	19	0,60	80
Postazioni CAD	*CAD workstations*	500	19	0,60	80
Disegno tecnico	*Technical design*	750	16	0,70	80
Sala conferenza e riunioni	*Conference and meeting rooms*	500	19	0,60	80
Archiviazione, copiatura, ect	*Filing, copying*	300	19	0,40	80
Banco della reception	*Reception*	300	22	0,60	80
EDIFICI SCOLASTICI	***SCHOOL BUILDINGS***				
Aule locale giochi e nido	*Classrooms games in kindergarten & nursery*	300	22	0,40	80
Aule scolastiche	*Classrooms*	300	19	0,60	80
Aule per corsi serali e per adulti, aule per educazione artistica, auditorium e aule lettura	*Classrooms in night school and adult, education drawing, auditorium and reading rooms*	500	19	0,60	80
Lavagne e schermi bianchi o verdi (illuminazione verticale)	*Blackboars and white or green screen (vertical lighting)*	500	19	0,70	80
Laboratori	*Laboratory*	500	19	0,60	80
Aule per disegno tecnico	*Classrooms for technical drawing*	750	16	0,70	80
Aula di musica e laboratori linguistici	*Music classrooms and language labs*	300	19	0,60	80
Aula di preparazione ed officine	*Classrooms of preparation and workshops*	500	22	0,60	80
Laboratorio di informatica	*Computer labs*	300	19	0,60	80
Ingressi	*Entrance*	200	22	0,40	80
Sale comuni per studenti e aula magna	*Comm. rooms for students and lobby today*	200	22	0,40	80
Sala professori	*Sale professors*	300	1	0,60	80
Magazzini materiale didattico	*Warehouses teaching materials*	100	25	0,40	80
Palazzetti, palestre e piscine (uso generale)	*Halls, gyms, swimming pools (general purpose)*	300	22	0,60	80
Mensa	*Canteen*	200	22	0,40	80
BIBLIOTECHE	***LIBRARIES***				
Scaffali (illuminamento verticale)	*Shelves (vertical lighting)*	200	25	0,40	80
Posti di servizio pubblico, lettura	*Places of service to the public*	500	22	0,60	80
RISTORANTI, HOTEL E MENSE	***RESTAURANTS, HOTEL AND CANTEEN***				
Corridoi negli hotel	*Corridors for hotel*	100	25	0,40	80
Ristoranti self-service	*Self-service restaurants*	200	22	0,40	80
Cucina	*Kitchen*	500	22	0,60	80
Sale conferenze	*Conference room*	500	19	0,40	80
ZONE DI TRANSITO E AREE GENERALI ALL'INTERNO DEGLI EDIFICI	***AREAS OF TRANSIT AND GENERAL AREAS INSIDE BUILDINGS***				
Area di passaggio e corridoi (illuminamento a pavimento)	*Passage areas and hallway (floor lighting)*	100	28	0,40	40
Scale, scale mobili, ascensori e montacarichi	*Stairs, elevators, escalators and goods lift*	100	25	0,40	40
Rampe e binari di carico	*Ramps and loading rails*	150	25	0,40	40
Locali tecnici e sala interruttore	*Technical rooms and switch room*	200	25	0,40	60
INDUSTRIALI ED ARTIGIANALI	***INDUSTRIAL AND CRAFT***				
AGRICOLTURA	***AGRICULTURE***				
Edifici per bestiame	*Buildings for cattle*	50	-	0,40	80
Carico e manovra delle merci, uso di attrezzatura	*Loading and operating goods, machinery handling*	200	25	0,40	80
Preparazione mangime, caseifici, lavaggio utensili, celle parto e zone animali	*Preparing food, dairy, washing utensils, cell parto and areas for animals*	200	25	0,60	80
INDUSTRIA CHIMICA, DELLA PLASTICA E DELLA GOMMA	***CHEMICAL INDUSTRY, PLASTIC AND RUBBER***				
Luoghi di lavoro con presenza di personale	*Workplaces with continuous presence of staff*	300	25	0,40	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Produzione farmaceutica e produzione di pneumatici	*Pharmaceutical and tires production*	500	22	0,60	80
Ambienti per misurazione di precisione e laboratori	*Laboratory for precision measurement*	500	19	0,60	80
Taglio, finitura e controllo	*Cutting, finishing and control*	750	19	0,70	80
Ispezione colore	*Check colour*	1000	16	0,70	90
INDUSTRIA ALIMENTARI	***FOOD INDUSTRY***				
Fabbriche di birra, conserve, cioccolato, zucchero, fermentazione di tabacco e cantine di fermentazione	*Breweries, tinned, chocolate, sugar, fermation of tobacco and fermation cellars*	200	25	0,40	80
Selezione e lavaggio prodotti. Confezionamento. Taglio e selezione di vegatali e frutta	*Selection and cleaning products. Packaging. Cutting and selection of vegetables and fruit*	300	25	0,60	80
Produzione gastronomica, lavori di cucina, produzione sigari e sigarette	*Gastronomic production, kitchen work, manufacture cigarettes*	500	22	0,60	80
Postazione di lavoro in macellerie, caseifici e mulini	*Workstations in butchers, dairies and mills*	500	25	0,60	80
Controllo di vetri e bottiglie. Controllo prodotti	*Check of glass and bottles. Check product*	500	22	0,60	80
Ispezione colore	*Check colour*	1000	16	0,70	90
LAVORAZIONE E TRASFORMAZIONE METALLI. INDUSTRIA ELETTRICA ED ELETTRONICA	***MANUFACTURING AND PROCESSING METALS. ELETRICAL AND ELECTRONICS INDUSTRY***				
Lavorazione a macchina grossolana e media	*Coarse and medium machine manufacturing*	300	22	0,60	80
Lavorazione a macchina di precisione	*Fine machine manufacturing*	500	19	0,70	80
Fucinatura a stampo, saldatura, costruzione tubi, formatura a freddo e laboratorio di trafilatura	*Forging mold, welding, pipe construction , cold forming and wire drawing workshop*	300	25	0,60	80
Tranciatura, ispezione, fabbricazione utensili e ambienti da taglio	*Tracking, check, ,utensil and cutting tool manufacturing*	750	19	0,60	80
Galvanizzazione, fabbricazione cavi e fili, impregnazione delle bobine	*Galvanizzation, manufactur of cable and wires, impregnation of coils*	300	25	0,60	80
Assemblaggio grossolano (lav. metalli)	*Coarse assembly (processing metals)*	200	25	0,60	80
Assemblaggio grossolano (indutria elettrica) e medio (lavorazione metalli)	*Coarse assembly (electrical industry) and medium assembly (processing metals)*	300	25	0,60	80
Assemblaggio medio (industria elettrica) e fine (lavorazione metalli)	*Medium assembly (electrical industry) and fine assembly (processing metalsy)*	500	22	0,60	80
Assemblaggio fine (industria elettrica) e di precisione (lavorazione metalli)	*Fine assembly (electrical industry) and precise assembly (processing metalsy)*	750	19	0,70	80
Assemblaggio di precisione (industria elettrica)	*Precise assembly (electrical industry)*	1000	16	0,70	80
Preparazione superfici e verniciatura	*Surface preparation and painting*	750	25	0,70	80
CENTRALI ELETTRICHE	***POWER STATIONS***				
Impianti alimentazione combustibile	*Combustible power plant*	50	-	0,40	20
Locale caldaie	*Boiler room*	100	28	0,40	40
Sala macchine	*Machine room*	200	25	0,40	80
Locali pompe, condesatori, quadri di controllo	*Pump rooms, condensers, control panels*	200	25	0,40	60
Sale di controllo	*Control rooms*	500	16	0,70	80
LAVORAZIONE E MANIFATTURA TESSILE	***LAMINATION AND TEXTILE MANUFACTURING***				
Zona di lavoro a lato delle vasche	*Working area at wash tubs*	200	25	0,60	60

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Lavaggio, stiratura, filatura,incollaggio	*Washing, ironing, spinning, bonding*	300	22	0,60	80
Filatura, aspatura, bobinatura, finitura, intrecciatura, tintura e tessitura. Manifattura cappelli	*Spinning, reeling, spooling, finishing, braiding, dyeing, weaving. Hat manifacturing*	500	22	0,60	80
Cucitura, maglieria fine, rimagliatura e rammendo	*Seaming, fine knitting, hooking and mending*	750	22	0,70	80
COSTRUZIONE VEICOLO	***VEHICLE CONSTRUCTION***				
Servizi generali per veicoli, riparazione e verifica	*General Vehicle Services, Repair and Inspection*	300	22	0,60	80
Carrozzeria ed assemblaggio	*Bodywork and assembly*	500	22	0,60	80
Camera di verniciatura, spruzzatura, lucidatura	*Paint chamber, polishing*	750	22	0,70	80
Verniciatura (ritocco, controllo), fabbricazione rivestimenti interni e controllo finale	*Painting (touch up, control), Inner lining manufacturing, final control*	1000	19	0,70	80
LAVORAZIONE E MANIFATTURA DI LEGNO	***WOOD MANUFACTURING AND PROCESSING***				
Processi automatici	*Automatic processes*	50	28	0,40	40
Camera del vapore	*Steam rooms*	150	28	0,40	40
Sega	*Saw*	300	25	0,60	60
Lavori dal banco di falegnameria, incollaggio e assemblaggio	*Counter work, assembly*	300	25	0,60	80
Lucidatura, verniciatura	*Polishing, painting*	750	22	0,70	80
Lavorazione su macchine	*Machine manufacturing*	500	19	0,60	80
Selezione legno per impiallacciatura, intarsio	*Wood selection, inlay*	750	22	0,70	90
Verifica di controllo ed ispezione	*Quality control, ispection*	1000	19	0,70	90
MAGAZZINI - MAGAZZINI REFRIGERANTI	**WAREHOUSES - REFRIGERATED WAREHOUSES**				
Zone di stoccaggio	*Storage areas*	100	25	0,40	60
Zona di movimentazione, imballaggio, spedizione	*Movement areas, packaging, shipping*	300	25	0,60	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - staff presence passage (floor lighting)*	150	22	0,40	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - no staff passage (floor lighting)*	150	22	0,40	40
Stazione di controllo	*Control station*	150	22	0,60	80
LUOHI DI CURA	***HEALTH AREAS***				
Corridoio (notte)	*Corridors (night)*	50	22	0,40	80
Corridoio (giorno)	*Corridors (daytime)*	100	22	0,40	80
Visita semplice	*Visit simple*	300	19	0,60	80
Visita e trattamento	*Visit and treatment*	1000	19	0,70	90
Locali diagnostici (Illuminazione generale)	*Diagnostic rooms (visits and treatment)*	500	19	0,60	90
Locale pre-operatorio e risveglio	*Pre-operating room*	500	19	0,60	90
Sala operatoria	*Operating room*	1000	19	0,60	90
Laboratorio, farmacia (illuminazione generale), ufficio per il personale	*Laboratory, pharmacy (general lighting), staff office*	500	19	0,60	80
Massaggio, radioterapia, endoscopia,esami semplici	*Massage, radiotherapy, endoscopy, simple exams*	300	19	0,60	80
Infermeria, ingessatura, dialisi	*Infirmary, plaster, dialysis*	500	19	0,60	80
Odontoiatria (illuminazione generale), dermatologia	*Dentistry (general illumination), dentology*	500	19	0,60	90
Sala di sterilizzazione e disinfezione	*Room for sterilization and disinfection*	300	22	0,60	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
PARCHEGGI PUBBLICI	***COVERED PARKING***				
Rampe di ingresso/uscita (durante il giorno)	*Entry/exit ramp (daytime)*	300	25	0,40	10
Rampe di ingresso/uscita (durante la notte)	*Entry/exit ramp (night)*	75	25	0,40	40
Corsie di circolazione	*Circolations lanes*	75	25	0,40	40
Zone di parcheggio	*Parking zones*	75	-	0,40	40
Biglietteria	*Ticket office*	300	19	0,60	80
AEROPORTI	***AIRPORT***				
Zone di collegamento	*Connection areas*	150	22	0,40	80
Sala di attesa, Sala di arrivo e partenza, zona ritiro bagagli	*Waiting room, Arrival and departure room, baggage claim area*	200	22	0,40	80
Banchi informazioni, accetazione, dogana e controllo passaporti	*Information banks, acceptance, customs and passport control*	500	19	0,70	80
Deposito bagagli	*Baggage storage*	200	25	0,40	80
Zone di controllo di sicurezza	*Safety control zone*	300	19	0,60	80
STAZIONI FERROVIARIE	***RAILWAY STATIONS***				
Banchine, bassa di densità di persone	*Quay, low density of people*	100	-	0,40	40
Banchine, alta densità di persone	*Quay, high density of people*	200	-	0,50	60
Sottopassaggi, bassa di densità di persone	*Subway, low density of people*	50	28	0,50	40
Sottopassaggi, alta densità di persone	*Subway, high density of people*	100	28	0,50	40
Biglietteria, deposito bagagli, cassa	*Ticket office, baggage storage, cash*	300	19	0,50	80
Sala d'attesa	*Waiting room*	200	22	0,40	80
Ingressi, sale stazione	*Entrance, station room*	200	-	0,40	80
Gallerie d'accesso	*Access tunnel*	50	-	0,40	20
AMBIENTI SPORTIVI AL COPERTO (C.O.N.I.) - norma EN 12193	***OPEN SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	200	-	0,50	-
Atletica leggera (agonistico a liv. locale)	*Athletics (agonistic at the local level)*	300	-	0,60	-
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500	-	0,70	-
Attività natatorie (non agonistico)	*Swimming activities (not agonistic)*	200	-	0,50	-
Attività natatorie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300	-	0,70	-
Attività natatorie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500	-	0,70	-
Calcio a 5 (non agonistico)	*5-a-side football (not agonistic)*	200	-	0,50	-
Calcio a 5 (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	500	-	0,70	-
Calcio a 5 (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	750	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	200	-	0,50	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	500	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	750	-	0,70	-
Tennis (non agonistico)	*Tennis (not agonistic)*	300	-	0,50	-
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	500	-	0,70	-
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	750	-	0,70	-

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
AMBIENTI SPORTIVI ALL'ESTERNO (C.O.N.I.) - norma EN 12193	***CLOSE SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	100		0,50	
Atletica leggera (agonistico a livello locale)	*Athletics (agonistic at the local level)*	200		0,50	
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500		0,70	
Attività natatoie (non agonistico)	*Swimming activities (not agonistic)*	200		0,50	
Attività natatoie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300		0,70	
Attività natatoie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500		0,70	
Calcio (non agonistico)	*5-a-side football (not agonistic)*	75		0,50	
Calcio (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	200		0,60	
Calcio (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	500		0,70	
Calcio a 5 (non agonistico)	*Football (not agonistic)*	100		0,50	
Calcio a 5 (agonistico a livello locale)	*Football (agonistic at the local lovel)*	200		0,70	
Calcio a 5 (agonistico a livello nazionale od internazionale)	*Football (agonistic at national or international level)*	500		0,70	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	100		0,50	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	200		0,60	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	500		0,70	
Tennis (non agonistico)	*Tennis (not agonistic)*	200		0,60	
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	300		0,70	
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	500		0,70	
AREE ESTERNE (CIE 129)	***EXTERNAL AREAS (CIE 129)***				
Parcheggi di negozi, di scuole e condominiali	*Store, school and condo parking lots*		5		
Lavoro molto grezzo, carico e scarico	*Rough work, loading and unloading*		20		
Lavoro grezzo, trasporto e immagazzinamento	*Rough work, transportation and storage*		50		
Camminamenti per pedoni	*Pedestrian walkways*		5		

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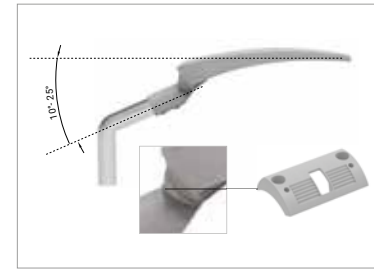
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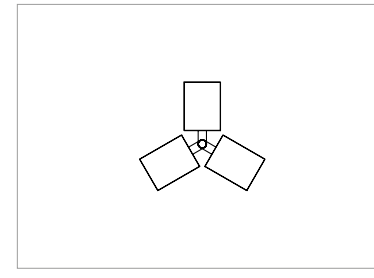
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KT6003

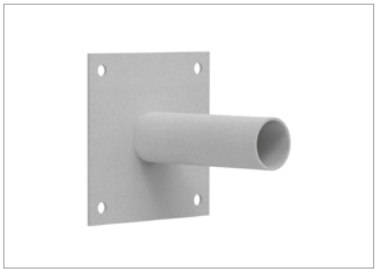


KTMK500



KBXC3

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KT6002



KELPZS - Zagha socket



KELPNS - Nema socket



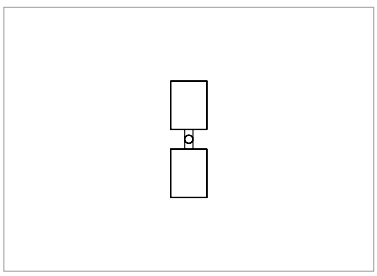
KT6006



KT6010



KT6020



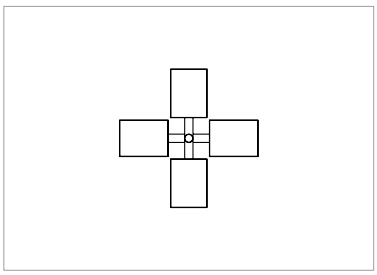
KBXC2



KT6110



KT6120



KBXC4



KATRD

NOTE

GENERAL SALES CONDITIONS

1. PREMESSE
Le forniture comprendono solo quanto espressamente specificato nella conferma di accettazione dell'ordine della ditta Venditrice e sono regolate dalle presenti condizioni generali, salvo deroghe risultanti da esplicito accordo scritto. Eventuali variazioni o comunicazioni durante il corso della fornitura non costituiscono invalidazione del contratto. I termini di consegna convenuti hanno valore indicativo e non tassativo. In qualunque momento l'esecuzione della fornitura potrà essere sospesa in caso di mutamento nelle condizioni patrimoniali del Committente ai sensi dell'Art. 1461 del Codice Civile.

2. PREZZI
I prezzi si intendono Franco Fabbrica della ditta Venditrice. Essi non comprendono prestazioni ed oneri non menzionati. Gli imballaggi sono inclusi nel prezzo, salvo diversa pattuizione scritta.

3. VARIABILITA' PREZZI
I prezzi indicati nel contratto sono stati calcolati in base ai costi dei materiali e della manodopera alla data del contratto stesso, in base alle relative tabelle dell'ANIE. Il sistema di calcolo delle variazioni di qualsiasi entità in più o in meno, che dovessero verificarsi su detti costi durante il periodo dell'esecuzione della vendita, verrà effettuato in base alle clausole di variabilità prezzi vigenti per apparecchi di illuminazione pubblicato dall'ANIE.

4. MODALITA' DI PAGAMENTO
Si riconoscono solo i pagamento fatti direttamente al nostro domicilio o a persone da noi autorizzate.

5. RISERVA DI PROPRIETA'
La ditta Venditrice conserva la proprietà sui materiali fino a totale pagamento di essi, ma i rischi sono assunti dal compratore sin dalla consegna. Qualunque atto del Committente che, salvo esplicito consenso scritto della Ditta venditrice, involga pregiudizio al diritto della Ditta Venditrice alla rivendita del materiale, sarà sottoposto alle sanzioni di legge.

6. CONSEGNA
Il termine di consegna indicato non impegna la Ditta Venditrice, la quale non è tenuta a corrispondere indennizzi di sorta per eventuali danni diretti ed indiretti dovuti a ritardi di consegna o ad interruzione od a risoluzione parziale o totale della fornitura. Il termine di consegna decorre dalla data della conferma d'ordine e in ogni caso non ha inizio prima del ricevimento della rata di pagamento all'ordine quando essa sia stata concordata. Esso si intende di diritto adeguatamente prorogato se i pagamenti non vengono effettuati puntualmente, se il Committente manca di fornire in tempo utile quanto stabilito nel contratto o se comunque insorgano cause indipendenti dalla Ditta Venditrice, ivi compresi eventuali ritardi di subfornitori.

7. RESO MERCE
La merce può essere resa esclusivamente previa autorizzazione della Ditta Venditrice e con un deprezzamento minimo del 30%

8. TRASPORTO
La merce viaggia rischio e pericolo del Committente comprese le eventuali rotture anche se spedita in porto franco. Trascorsi 8 giorni dal ricevimento non si accettano reclami. Gli ordini saranno evasi secondo la disponibilità e le spedizioni potranno essere fatte anche parzialmente.

9. DATI TECNICI
I materiali forniti, salvo diverse particolari prescrizioni da concordarsi per iscritto, corrispondono alle vigenti norme del CEI – Comitato Elettrotecnico Italiano, ove queste siano applicabili. La ditta Venditrice si riserva di apportare in qualunque momento ai propri prodotti quelle modifiche che ritenesse tecnicamente convenienti. I disegni dalle Ditta Venditrice sono di sua proprietà e non possono dal Committente essere consegnati a terzi ne prodotti senza autorizzazione scritta.

10. GARANZIA
Ideallux garantisce i suoi prodotti per 24 mesi dalla data di fabbricazione indicata sul prodotto. La garanzia copre tutti i difetti di fabbricazione siano essi di natura meccanica o elettronica. Non sono inclusi in garanzia tutti i danni causati dalla movimentazione e/o utilizzo errato e non conforme a quanto riportato sulle istruzioni d'uso. La garanzia decade nel caso in cui i prodotti vengano manomessi e/o modificati.
Il prodotto difettoso per cui è richiesto l'intervento in garanzia, può essere riparato o sostituito con un articolo complementare sia nuovo che ricondizionato ad insindacabile giudizio di Ideallux. I prodotti che riportano il marchio "5 years warranty" sono coperti da 5 anni di garanzia considerando 14h/giorno per 365 giorni solari annuali, nel rispetto del lifetime indicato sulla scheda prodotto. I reclami per interventi in garanzia entro i 5 anni dalla data di fabbricazione (ad esclusione di quelli ricevuti entro i termini legislativi sopra indicati) saranno soggetti ad approvazione di Ideallux. Guasti che rientrano nella difettosità fisiologica dichiarata e comunque entro il 5% del totale degli articoli installati non sono coperti dalla garanzia 5 anni.Termini e condizioni generali di garanzia sono disponibili e possono essere richiesti presso la sede Ideallux.

11. CONTROVERSIE
I contratti, anche se stipulati con cittadini esteri o per materiali forniti all'estero, sono regolati dalla vigente legislatura italiana. Foro competente è soltanto quello avente giurisdizione nella sede legale della Ditta Venditrice anche in deroga agli art. 32 e seguenti del Codice di Procedura Civile, esclusa per il Committente la possibilità di adire l'Autorità Giudiziaria di altro luogo anche in via di garanzia o di connessione di causa, ma salva la facoltà alla Ditta Venditrice di esperire, in qualità di attrice, un'azione nel luogo di residenza, in Italia o all'estero, del Committente. Le eventuali contestazioni non dispensano il Committente dall'osservare le condizioni di pagamento pattuite e non implicano alcun prolungamento dei termini convenuti. Le spese di contratto, la sua registrazione e l'eventuale trascrizione sono a carico del Committente.

1. INTRODUCTION
The supplies include only what is express specified in the order acceptance confirmation of the Vending Company and are governed by these general conditions, save for provisions resulting from an explicit written agreement. Any changes or notifications during the supply do not constitute the invalidation of the contract. The agree delivery terms are merely indicative and are not binding. The execution of the supply may be suspend at any time due to changes to the financial conditions of the Buyer in accordance with the Art. 1461 of the Italian Civil Code.

2. PRICES
The prices are Ex-works of the Vending Company and do not include services at charges that have not been mentioned. The packages are include in price. The package cannot be return, save for a different written agreement.

3. CHANGES IN PRICES
The prices shown in the contract were calculate based on the costs of the materials and of the labor on the date of the contract based on the related ANIE tables. The calculation system of any kind of changes, whether more or less, that may arise to said costs during the period of execution of the sale will be carried out based on the clauses of the changes of prices in force for lighting equipment published by ANIE.

4. PAYMENT
We recognize as valid payment only the ones made directly to our address or to our authorized people.

5. RETENTION OF TITLE
The Vending Company keeps the ownership of materials until paid in full, but the risks are assume by the Buyer upon delivery. Any action of the Buyer, that results in prejudice to the right of the Vending Company to resell the material, will be subjected to legal sanctions, save for the explicit written consent of the Vending Company.

6. DELIVERY
The delivery period shows does not bind the Vending Company, which is not bound to pay indemnities arising for any direct or indirect damage due to delivery delays, downtime or the partial or total return of the supply. The delivery period is effective from the date of the order confirmation and in any case does not begin prior to having receiving the payment instalment for the agreed amount. This term is adequately extend by right if the payments are not made punctually, if the Buyer fails to supply what is set out in the contract in useful time or if causes nonetheless arise regardless of the Vending Company, therein including any delays of sub-contractors.

7. RETURN OF GOODS
The goods may only be return upon the authorization of the Vending Company and with a depreciation of 30%.

8. TRANSPORT
The goods travel at Customer's risks and danger, even if in case of damage in fall of delivery terms Free destination.

9. TECHNICAL DATA
Save for special prescriptions to be agree in writing, the materials supplied correspond to the standards in force of the CEI (Italian Electrical and Technical Council), where applicable. The Vending Company reserves the right to change its products at any time where deemed technically convenient. The designs of the Vending Company are its own property and may not be given by the Buyer to third parties without written authorization.

10. WARRANTY
IDEALLUX guarantees its products for 24 months from the date of production indicated on the item. The warranty covers all manufacturing defects whether they are of a mechanical or electronic nature. All damage caused by handling and / or incorrect use, or use not in accordance with the instructions indicated in the operating instructions are not covered by this warranty. The warranty will expire if the products are tampered with and/or modified. The defective product requiring warranty intervention can be repaired or replaced with a similar article both new and reconditioned at the discretion of Ideallux. The products with mark "5 years warranty" are covered by 5 years warranty considering 14 h/day for 365 solar annual days, respecting the lifetime indicated in the product data sheet. Claims for warranty work within 5 years from the date of manufacture (except those received within the above mentioned legislative terms) will be subject to Ideallux approval.
Faults that fall within the declared physiological defect and in any case within 5% of the total installed items will not be covered by the 5 yeas warranty. Warranty general terms and conditions are available and can be requested at Ideallux offices.

11. DISPUTES
Even if stipulated with foreign citizens or for materials supplied abroad, the contracts are govern by the Italian legislation in force. The only competent court is the one having jurisdiction in the registered office of the Vending Company, also in provision of Art. 32 and ff. of the Italian Code of Civil Procedure, apart from the Buyer's possibility of applying to the Judicial Authority of another place also as a guarantee or related cause, but save for the right of the Vending Company to carry out an action in the place of residence of the Buyer in Italy or abroad as the plaintiff. Any disputes do not waiver the Buyer from observing the agreed payment conditions and do not imply any extension of the agreed terms. The costs of the contract, its registration and transcription are at the expense of the Buyer.

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Purplecloud design | William Cardani

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Ufficio tecnico | Ideallux®

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COLOMBO

GRUPPO RAINA

GRUPPO RAINA

L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

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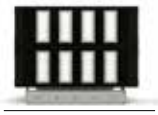
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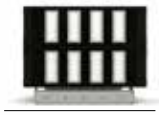
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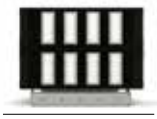
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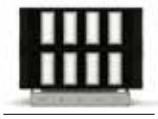
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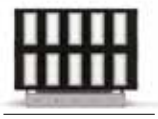
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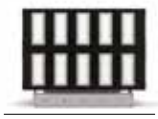
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A woman is the full circle. Within her is the power to create, nurture and transform.
(Diane Mariechild)



Everyone knew it was impossible until a fool who didn't know came along and did it.
(Albert Einstein)



Scientists discover the world that exists; engineers create the world that never was.
(Theodore von Kármán)

WHO WE ARE

GRUPPO RAINA is the brand that brings together under the same name: IDEALLUX® historical production specialized in the production and sale of fittings for industry and tertiary. COLOMBO brand specific for street and outdoor fixtures. LOOKUP® with its wide and new range of decorative lighting fittings.

GRUPPO RAINA
L'unione fa la luce.

IDEALLUX® Lookup COLOMBO

IT
CHI SIAMO
Il GRUPPO RAINA è il brand che raggruppa sotto lo stesso nome i marchi: IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. COLOMBO marchio specifico per gli apparecchi stradali, arredo urbano e da esterno. LOOKUP® con la sua nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
QUI SOMMES-NOUS
GRUPPO RAINA est le brand qui rassemble sous le même nom les marques IDEALLUX® appareilles pour l'industrie et le tertiaire, COLOMBO gamme routier et d'extérieur et LOOKUP® appareilles décoratifs.

ES
QUIEN SOMOS
GRUPPO RAINA es la marca que reúne bajo el mismo nombre a las marcas IDEALLUX® luminarias para la industria y servicios, **COLOMBO** luminarias viales y de exterior y **LOOKUP** luminarias decorativas.

DE
WER WIR SIND
GRUPPO RAINA ist das Brandmal, das unter der gleichen Name die Marke gruppiert: IDEALLUX® Historische Produktion, spezialisiert auf den Bau und Verkauf von Leuchten für den Industrie- und Dienstleistungssektor. **COLOMBO** spezifische Marke für Straßen- und Outdoor-Leuchten. **LOOKUP®** neue und breite Linie von dekorativen und architektonischen Leuchten.

RU
О НАС
GRUPPO RAINA является брендом, включающим в себя следующие марки: IDEALLUX® является знаменитым производством, специализирующемся на изготовлении и продаже осветительных приборов, предназначенных для промышленного сектора и сферы услуг. **COLOMBO** – это марка, разрабатывающая уличные осветительные приборы и уличное оборудование. **LOOKUP®** представляет собой новую широкую гамму декоративных и архитектурных осветительных приборов.

COMPANY HISTORY

1987 › IDEALLUX® was founded in 1987 by the will of Claudio Raina. Born as an artisan company producing lighting equipment, to become in a few years one of the most important producers in the lighting sector.

2011 › In 2011 the transition from traditional sources takes place, while LED technology is being developed. IDEALLUX® launches a catalogue exclusively dedicated to LED lighting fixtures, alongside the well-established fluorescence product catalogue.

2017 › Marked the milestone of 30 years of activity. The Fuorisalone 2017 - Via Tortona - Milan was the perfect location to celebrate this important stage, presenting the IDEALLUX® products with a new look.

2018 › On the occasion of Light + Building in Frankfurt, the most prestigious lighting fair on the international scene, IDEALLUX® presents the new Gruppo Raina to the lighting world. Gruppo Raina is the brand that brings together the IDEALLUX®, Lookup and Colombo brands under the same name.

GRUPPO RAINA
L'unione fa la luce.

IT
LA STORIA
IDEALLUX® viene fondata nel 1987 per volontà di Claudio Raina. Nasce come azienda artigiana di produzione di apparecchi di illuminazione, per divenire in pochi anni un'importante realtà industriale del settore dell'illuminazione. Nel 2011 avviene il passaggio dalle fonti tradizionali alle nuove tecnologie LED. IDEALLUX® lancia un catalogo dedicato esclusivamente ad apparecchi di illuminazione LED, affiancandolo all'ormai consolidato catalogo di prodotti fluorescenza. Il 2017 ha segnato il traguardo dei 30 ANNI di attività. Il Fuorisalone 2017 - Via Tortona - Milano è stata la location perfetta per festeggiare questa importantissima tappa, presentando i prodotti IDEALLUX® con una nuova veste. Nel 2018, in occasione di Light+Building, la più prestigiosa fiera dell'illuminazione nel panorama internazionale, IDEALLUX® presenta al mondo del lighting il nuovo Gruppo Raina. Gruppo Raina è il brand che raggruppa sotto lo stesso nome i marchi IDEALLUX®, Lookup e Colombo.

FR
HISTOIRE
IDEALLUX® est fondé en 1987 pour volonté de Claudio Raina. Naît comme usine artisanale de production des appareilles d'éclairage, pour devenir après quelques années une importante réalité industrielle du secteur d'éclairage. En 2011 arrive le passage des sources traditionnelles aux nouvelles technologies LED. IDEALLUX® lance un catalogue exclusivement dédié aux appareilles d'éclairage LED, a couté du consolidé catalogue produits fluorescence. Le 2017 a marqué la ligne d'arrivée des 30 ANS d'activité. Le Fuorisalone 2017 près de Via Tortona en Milan a été en endroit parfaite pour célébrer cette importante étape en présentant les produits IDEALLUX® avec un nouveau vêtement. En 2018, pendant la foire Light+Building, la plus prestigieuse concernant l'éclairage dans le panorama international, IDEALLUX® présente au monde du Lightning le nouveau Gruppo Raina. Groupe Raina est le brand qui groupe sous le même nom les marques IDEALLUX®, Lookup et Colombo.

ES
HISTORIA
IDEALLUX® fue fundada en 1987 por voluntad de Claudio Raina. Nace como una empresa artesanal que produce aparatos de iluminación, para convertirse en pocos años en una realidad industrial importante en el sector de la iluminación. En 2011 se lleva a cabo la transición de las fuentes tradicionales de iluminación a las nuevas tecnologías LED. IDEALLUX® lanza un catálogo dedicado exclusivamente a los aparatos de iluminación LED, uniendolo con el ya bien consolidado catálogo de productos de fluorescencia. 2017 marcó el hito de 30 años de actividad. El Fuorisalone 2017 - Via Tortona - Milán fue el lugar perfecto para celebrar esta importantisima etapa, presentando los productos IDEALLUX® con un nuevo look. En 2018, con motivo de Light + Building, la feria de iluminación más prestigiosa de la escena internacional, IDEALLUX® presenta el nuevo Gruppo Rainaal mundo de la iluminación. Gruppo Raina es la marca que agrupa a las marcas IDEALLUX®, Lookup y Colombo bajo el mismo nombre.

DE
DIE GESCHICHTE
Geboren als handwerkliches Unternehmen, das Beleuchtungsgeräte herstellt, um in wenigen Jahren eine wichtige industrielle Realität in der Beleuchtungsbranche zu werden. Im Jahr 2011 findet der Übergang von traditionellen Quellen zu neuen LED-Technologien statt. Neben dem bekannten Fluoreszenz-Produktkatalog führt IDEALLUX® einen Katalog ein, der sich ausschließlich mit LED-Beleuchtungsgeräten befasst.. 2017 war der Meilenstein von 30 Jahren Aktivität. Die Fuorisalone 2017 - Via Tortona - Mailand war der perfekte Ort, um diese wichtige Etappe zu feiern und die IDEALLUX® Produkte mit einem neuen Look zu präsentieren. Im Jahr 2018 präsentiert IDEALLUX® anlässlich der Light + Building, der prestigeträchtigsten Lichtmesse der internationalen Szene, die neue Raina Group der Lichtwelt. Gruppo Raina ist die Marke, die die Marken IDEALLUX®, Lookup und Colombo unter demselben Namen vereint.

RU
ИСТОРИЯ
Идеаллюкс была основана в 1987 году Клаудио Раина. Она изначально являлась ремесленной мастерской по производству осветительного оборудования, которая вскоре переросла в важнейшую промышленную компанию в осветительной отрасли. В 2011 году произошёл переход от традиционных источников к новых технологиям СИД. Идеаллюкс выпускает каталог, посвящённый исключительно осветительному оборудованию СИД, который сосуществует с уже устоявшимся каталогом флуоресцентных продуктов. В 2017 году компания отметила 30 ЛЕТ успешной работы. Fuorisalone 2017 – Улица Tortona – Милан было идеальным местом для празднования этого важнейшего этапа и представления продуктов Идеаллюкс в новом обличье. В 2018 году по случаю Light+Building, самой престижной осветительной выставки на мировой арене, Идеаллюкс представила новую Группу Raina. Группа Raina является брендом, который объединяет под одним именем марки IDEALLUX®, Lookup и Colombo.

MISSION

The group's mission is the design and production of lighting systems characterized from high technology and very good performance, totally made at the Cilavegna plant in the Province of Pavia and certified 100% Made in Italy. The Gruppo Raina obtained the Certification ISO 9001: 2008 and the 100% Made in Italy Certification issued by the Institute for the Protection of Italian Manufacturers. The numbers of the group can explain the capacity of it: 12.000 square meters of production plant, 7.000 sqm of warehouse, 100 resources employed and more than 3.800 active customers.



IT

MISSION

Il gruppo ha come mission la progettazione e la produzione di sistemi di illuminazione, caratterizzati da un'elevata tecnologia e da un ottimo rendimento, totalmente realizzati nello stabilimento di Cilavegna, in Provincia di Pavia e certificati 100% Made in Italy. Gruppo Raina vanta tra le certificazioni ottenute la certificazione ISO 9001:2008 e la certificazione 100% Made in Italy rilasciata dall'Istituto Per la Tutela dei Produttori Italiani. I numeri del gruppo riassumono le capacità dello stesso, con i suoi 12.000 mq di stabilimento produttivo, 7.000 mq di magazzino, 100 risorse impiegate e oltre 3.800 clienti attivi.

FR

MISSION

Le groupe a comme mission le projet et la production de systèmes d'éclairage, réalisé dans l'usine de Cilavegna, dans la province de Pavie et certification 100% made en Italy. Certification ISO 9001:2008 Certification 100% Made en Italy relâché par l'institut pour la Tutelle des Producteur Italiens. LE NOMBRES: 12.000 mq d'usine productive. 7.000 mq de magasin.100 ressources employées.3.800 clients actifs.

ES

MISSION

El grupo tiene como misión el diseño y producción de sistemas de iluminación, fabricados en la p certificaciones. la certificación iso 9001: 2008 certificación 100% made in italy emitida por el instituto para la protección de fabricantes italianos lanta de cilavegna, en la provincia de pavia y certificados 100% made in italy. los numeros: 12.000 mq de planta de producción, 7.000 mq de almacén, 100 recursos utilizados, 3.800 clientes activos.

DE

MISSION

Die Gruppe hat sich zum Ziel gesetzt, Beleuchtungssysteme zu entwerfen und zu produzieren, die sich durch Hochtechnologie und hervorragende Leistung auszeichnen. Sie werden vollständig im Werk von Cilavegna in der Provinz Pavia hergestellt und sind zu 100% Made in Italy zertifiziert. Die Gruppo Raina hat unter den Zertifizierungen die ISO 9001: 2008-Zertifizierung und die 100% Made in Italy-Zertifizierung des Instituts zum Schutz italienischer Hersteller erhalten. Die Zahlen der Gruppe fassen die Kapazität derselben mit 12.000 Quadratmetern Produktionsanlage, 7.000 Quadratmetern Lagerhalle, 100 Mitarbeitern und mehr als 3.800 aktiven Kunden zusammen.

RU

МИССИЯ

Миссия группы заключается в проектировании и производстве осветительных систем, характеризующихся высокими технологиями и отличной эффективностью. Они производятся исключительно на заводе в городе Чилавенья в провинции Павия и имееют сертификаты 100% Сделано в Италии (100% Made in Italy). Группа Raina гордится наличием сертификата ISO 9001:2008 и сертификата 100% Сделано в Италии (100% Made in Italy), который был выдан Институтом по защите прав итальянских производителей. Приведённые ниже цифры показывают возможности группы: 12.000 м2 производственного предприятия, 7.000 м2 складских помещений, 100 человек рабочего персонала и более 3.800 активных клиентов.

QUALITY

With a view to customer satisfaction and service optimization, IDEALLUX® has put in place quality control processes with the aim of limiting defectiveness, which has been less than 1% (ISO statistical data of the last three years).



IT
QUALITÀ
Nell'ottica della soddisfazione del cliente e dell'ottimizzazione del servizio, IDEALLUX® ha messo in atto processi di controllo qualità con l'obiettivo di limitare la difettosità, che si è attestata ad una percentuale inferiore all'1% (dato statistico ISO degli ultimi tre anni).

FR
QUALITÉ
Dans l'optique de la satisfaction du client et de l'optimisation du service, IDEALLUX® a mis en cours un procès de contrôle qualité avec l'objectif de limiter la défectuosité qui sont attestés à une pourcentage inférieure au 1 % (info statistique ISO des derniers trois ans).

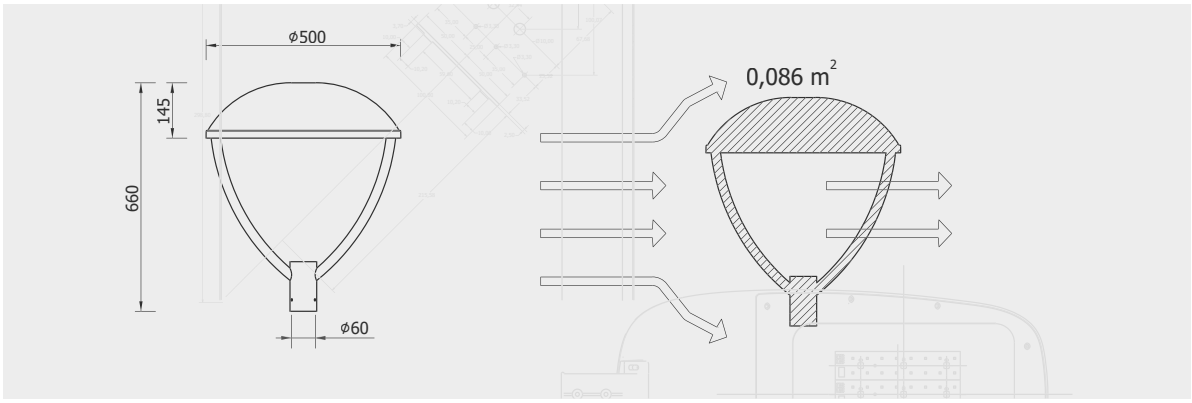
ES
CALIDAD
Con muras a la satisfacción del cliente y la optimización del servicio, IDEALLUX® ha puesto en marcha procesos de control de calidad con el objetivo de limitar la defectuosidad, que ha alcanzado un porcentaje inferior al 1% (datos estadísticos ISO de los últimos tres años).

DE
QUALITÄT
Im Hinblick auf Kundenzufriedenheit und Serviceoptimierung hat IDEALLUX® Qualitätskontrollprozesse eingeführt, um den Fehler zu begrenzen, der einen Prozentsatz von weniger als 1% erreicht hat (ISO-Statistikdaten der letzten drei Jahre).

RU
КАЧЕСТВО
С учётом удовлетворения запросов клиентов и оптимизации обслуживания, Идеаллюкс внедрила процесс управления качеством с целью уменьшения дефектов производства, которые не превышают 1% (данные статистики ISO за последнии три года).

RESEARCH & DEVELOPMENT

The data acquisition, market's needs and demands are essential for the proper focus of the idea and development of the project. The wide technical IDEALLUX® structure with its many functions and skills, guarantees the optimization of product design process: starting from the industrial cost evaluation to the overall quality of the product. All the different steps of the design project are managed within the company. Through use of advanced software, the highly qualified IDEALLUX® staff develops, analyzes and designs the product in all its parts. This design process ends with the production of a prototype, tested in the internal photometric laboratory. Thanks to its ability to adapt the product to customer requirements, IDEALLUX® is specialized in the creation of "CUSTOM MADE PRODUCTS".



IT

RICERCA E SVILUPPO

In un progetto la fase di acquisizione dei dati, delle necessità e dei gusti del mercato diventa essenziale per la corretta messa a fuoco dell'intero processo ideativo. La struttura tecnica di IDEALLUX®, vasta e integrata nelle sue funzioni e competenze, garantisce l'ottimizzazione del processo progettuale: dalla valutazione del costo industriale alla qualità globale del prodotto. Tutti i processi inerenti alla progettazione vengono gestiti all'interno dell'azienda. La progettazione viene realizzata da personale altamente qualificato che, attraverso l'utilizzo di software avanzati, sviluppa, analizza e progetta il prodotto in tutte le sue parti. La realizzazione di un prototipo, testato nel laboratorio fotometrico, è la parte conclusiva di questo processo. IDEALLUX® è specializzata nella creazione di apparecchi CUSTOM proprio grazie alla capacità di adattare il prodotto alle esigenze del cliente.

FR

RECHERCHE ET DÉVELOPPEMENT

Dans un projet, il est essentiel d'acquérir les données, les besoins et les goûts du marché pour pouvoir correctement mettre en application le processus de conception dans toute son intégralité. La structure technique de IDEALLUX®, vaste et intégrée dans ses fonctions et compétences, garantit l'optimisation du
processus d'élaboration : de l'évaluation du coût industriel à la qualité globale du produit. La conception du projet est réalisée par un personnel hautement qualifié qui, grâce à l'utilisation de logiciels d'avant-garde, développe, analyse et réalise entièrement le produit. La réalisation d'un prototype, testé en laboratoire photométrique, est la dernière phase de ce processus. IDEALLUX® est spécialisée dans la création d'appareil CUSTOM grâce essentiellement à ses capacités d'adapter le produit aux exigences du client.

ES

INVESTIGACIÓN Y DESARROLLO

En un proyecto la fase de adquisición de datos, de necesidades y de gustos del mercado se vuelve esencial para el correcto enfoque de todo el proceso creativo. La estructura técnica de IDEALLUX®, vasta e integrada en sus funciones y competencias, garantiza la optimización del proceso de diseño: desde la evaluación del coste industrial a la calidad global del producto. Todos los procesos inherentes al diseño se gestionan en el interior de la empresa. Toda la fase de diseño es realizada por personal altamente cualificado que, a mediante el uso de softwares avanzados, desarrolla, analiza y diseña el producto en su total concepción. La realización del prototipo, probado en el laboratorio fotométrico, es la parte final de este proceso. IDEALLUX® se especializa en la creación de luminarias personalizadas justamente gracias a la capacidad de adaptar el producto a las exigencias del cliente.

DE

FORSCHUNG UND ENTWICKLUNG

Ausschlaggebende Faktoren für ein erfolgreiches Projekt sind die Bestimmung eines vollständigen Anforderungsprofils des Marktes hinsichtlich dessen Wünsche und Erwartungen, des aktuellen schmacks, der geforderten technischen Notwendigkeiten sowie die entsprechende korrekte Analyse der akquirierten Daten. Die Betriebsorganisation von IDEALLUX® vereint alle dazu notwendigen Funktionen und Kompetenzen, von der Kostenkalkulation bis zur Sicherstellung eines qualitativ hochwertigen Endprodukts, so daß unter Ausnutzung aller möglichen Synergien der verschiedenen Abteilungen das Konzept "alles aus einer Hand" in ein harmonisches Gesamtergebnis umgesetzt wird. Die Konstruktion wird von hochqualifiziertem Personal durchgeführt, das, durch den Einsatz von fortschrittlicher Software, das Produkt in alle seinen Teilen entwickelt, analysiert und entwirft. Die Realisierung eines Prototyps, das im photometrischen Labor getestet wird, ist die letzte Teil dieses Prozesses. IDEALLUX® hat sich auf die Erstellung von CUSTOM - Geräten spezialisiert, danke an Ihrer Fähigkeit, das Produkt an die Kundenbedürfnisse anzupassen.

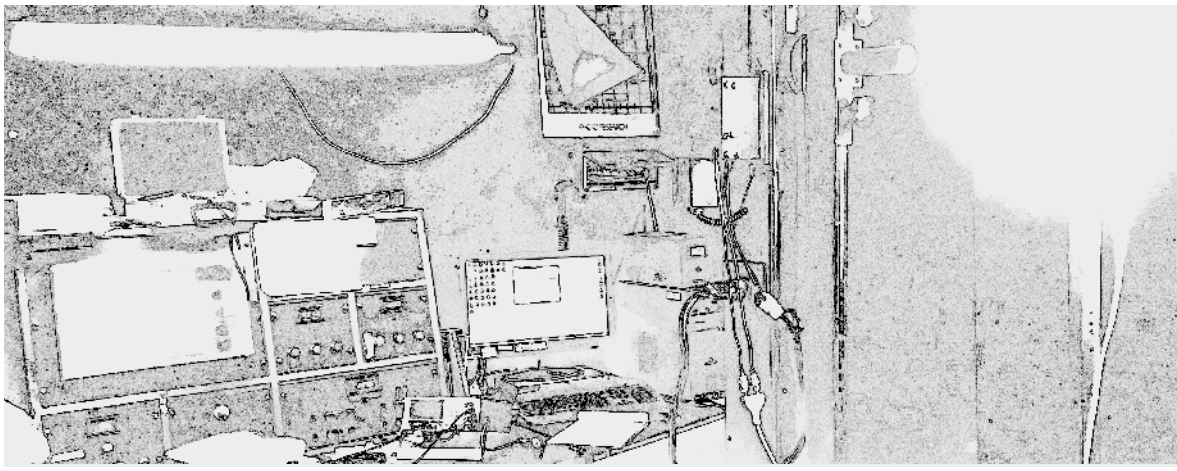
RU

ИССЛЕДОВАНИЯ И РАЗРАБОТКИ

Сбор данных, потребности и требования рынка имеют важное значение для правильной направленности идеи и развития проекта. Широкая техническая структура IDEALLUX® с ее многочисленными функциями и навыками гарантирует оптимизацию процесса проектирования продукта: от оценки производственных затрат до общего качества продукта. Все различные этапы дизайн-проекта управляются внутри компании. Благодаря использованию передового программного обеспечения высококвалифицированный персонал IDEALLUX® разрабатывает, анализирует и проектирует продукт во всех его частях. Этот процесс проектирования заканчивается производством прототипа, испытанного во внутренней фотометрической лаборатории. Благодаря своей способности приспосабливать продукт к требованиям клиента, IDEALLUX® специализируется на создании «ИЗДЕЛИЙ ИЗ ИЗГОТОВЛЕНИЯ».

MEASURES & TEST

During prototyping phase IDEALLUX® carries out all the preventive controls of security, quality and conformity according to sector norms. In according to norm EN60598, IDEALLUX® performs a wide range of tests as the thermal resistance test (realized through the controls of each single component), the IP and IK resistance tests (to analyze how the mechanical structure reacts to external stresses), salt spray (fog) test (to check the resistance of the external surfaces). Thanks to the internal photometric laboratory IDEALLUX® can make many optic tests on the fixture, according to norm UNI EN13032, generate photometric curve and extend its range of products through the optimization of optics and flow recovery devices.



IT

MISURE E PROVE

è nella fase di prototipazione che IDEALLUX® svolge tutti i controlli preventivi sulla sicurezza, qualità, conformità, in relazione alle principali norme di settore. In conformità alla normativa EN 60598 vengono eseguite prove di resistenza termica, attraverso il controllo capillare dei singoli componenti interni, prove di resistenza a IP e IK, attraverso le quali si analizza il comportamento della struttura meccanica alle sollecitazioni esterne, e prove in nebbia salina per verificare la tenuta delle superfici esterne. Grazie al supporto del proprio laboratorio fotometrico, IDEALLUX® può effettuare i più svariati test ottici sugli apparecchi, in conformità alla normativa UNI EN13032, realizzare le curve fotometriche e ampliare la gamma di prodotti attraverso l'ottimizzazione delle ottiche e dei recuperatori di flusso.

FR

MESURES ET TEST

Pendant la phase de réalisation du prototype IDEALLUX® réalise tous les contrôles préalables en termes de sécurité, qualité, conformité, selon les principales normes du secteur. Conformément aux normes EN 60598 des tests de résistance thermique sont effectués par le biais du contrôle minutieux de chaque composant interne, test de résistance à IP et IK, au travers desquels on analyse le comportement de la structure mécanique contre les aggressions climatiques de toute sorte, et des essais en brouillard salin pour vérifier la tenue des superficies externes. Grâce au support de son propre laboratoire photométrique, IDEALLUX® peut effectuer toutes sortes de test optiques sur les appareils, conformément aux normes UNI EN13032, réaliser des courbes photométriques et élargir la gamme de produits à travers l'optimisation des optiques et des récupérateurs de flux.

ES

MEDIDAS Y PRUEBAS

Es en la fase de creación del prototipo en la que IDEALLUX® lleva a cabo todos los controles preventivos de seguridad, calidad y conformidad, en relación a las principales normas del sector. De acuerdo con la normativa EN 60598 se ejecutan pruebas de resistencia térmica, mediante el control riguroso de cada uno de los componentes internos, pruebas de resistencia a IP e IK, a través de las cuales se analiza el comportamiento de la estructura mecánica a las tensiones externas, pruebas en niebla salina que verifican la resistencia de las superficies externas. Gracias al apoyo del propio laboratorio fotométrico, IDEALLUX® puede efectuar las más variadas pruebas ópticas en las luminarias, de acuerdo con las normativa UNE EN13032, realizar las curvas fotométricas y ampliar la gama de productos a través de la optimización de las ópticas y de los recuperadores de flujo.

DE

MESSUNGEN UND VERSUCHE

Bereits bei der Projektierung als auch im Prototypstadium kontrolliert und optimiert IDEALLUX alle Aspekte hinsichtlich der Qualität, Sicherheit und Konformität gemäß der herrschenden Normen. Der Norm EN60598 folgend, werden die thermische Widerstandsfähigkeit der einzelnen Bestandteile als auch des ganzen Produkts geprüft. Es folgen die Tests zu den Schutzarten IP und dem Schlagschutz IK, die die mechanischen Eigenschaften des Artikels auf die Umgebungsbedingungen kontrollieren, sowie die Prüfung im Salznebel und weiteren von den Normen vorgesehenen Eigenschaften. Dank der Unterstützung seines photometrischen Labors, der Norm EN60598 folgend kann IDEALLUX® unterschiedlichste optische Tests an den Geräten durchführen, die photometrischen Kurven und erweitern die Produktpalette durch die Optimierung der Optik und Strömungsrekuperatoren realisieren.

RU

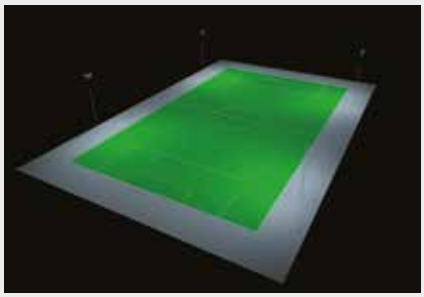
МЕРЫ И ТЕСТ

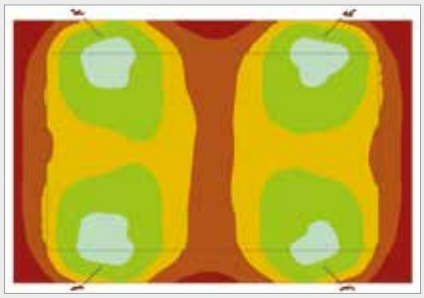
На этапе создания прототипа IDEALLUX® проводит все профилактические проверки безопасности, качества и соответствия в соответствии с отраслевыми нормами. В соответствии с нормой EN60598, IDEALLUX® выполняет широкий спектр испытаний, таких как испытание на тепловое сопротивление (реализуемое посредством контроля каждого отдельного компонента), испытания на сопротивление IP и IK (чтобы проанализировать, как механическая структура реагирует на внешние напряжения), соль испытание на распыление (туман) (для проверки сопротивления внешних поверхностей). Благодаря внутренней фотометрической лаборатории IDEALLUX® может проводить множество оптических испытаний прибора, в соответствии с нормой UNI EN13032, генерировать фотометрическую кривую и расширять ассортимент своей продукции за счет оптимизации оптики и устройств восстановления потока.

CUSTOMER SERVICE

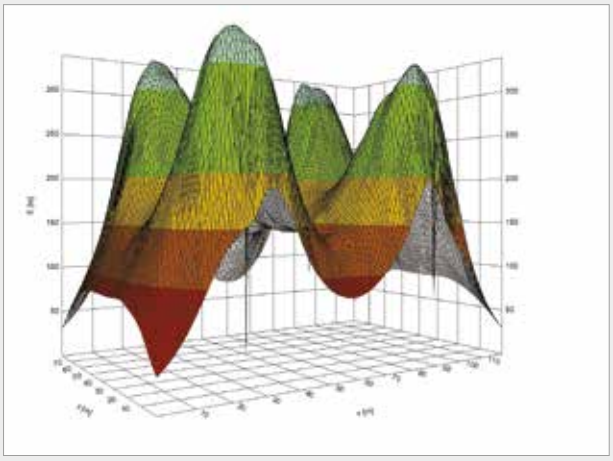
IDEALLUX® provides its customers and designers the lighting calculation service assistance. Using advance software it is possible:

- To examine the photometric characteristics of fixture for a proper application.
- To elaborate and calculate detailed lighting levels and light uniformity on work surface.
- In lighting calculations there are average lighting values (Isolux curves).
- The photometric curves are available on website www.ideallux.it.





Light simulation



IT

ASSISTENZA CLIENTI

IDEALLUX® fornisce ai suoi clienti ed ai progettisti, il servizio di assistenza alla progettazione illuminotecnica. Mediante l'utilizzo di software avanzati è possibile:

- consultare le caratteristiche fotometriche dell'apparecchio per un'idonea applicazione
- elaborare e calcolare nel dettaglio il livello di illuminamento e di uniformità sui piani di lavoro.
- Negli elaborati ottenuti, sono presenti valori di illuminamento medio (curve isolux).
- Le fotometrie sono disponibili sul sito www.ideallux.it

FR

ASSISTANCE ET CONTRÔLES TECHNIQUES D'ÉCLAIRAGE

IDEALLUX® fournit à ses clients et aux concepteurs le service d'assistance au projet d'éclairage. Grâce à l'utilisation de logiciels à l'avant-garde il est possible de :

- consulter les caractéristiques photométriques de l'appareil pour une application appropriée
- élaborer et calculer en détail le niveau d'éclairement et d'uniformité sur les plans de travail.
- de consulter les valeurs d'éclairement moyenne (courbes isolux) figurant dans les textes élaborés
- de visionner les photométries disponibles sur le site www.ideallux.it.

ES

ASISTENCIA Y CONTROLES LUMINOTÉCNICOS

IDEALLUX® provee a sus clientes y a sus diseñadores, el servicio de asistencia en el diseño luminotécnico. Mediante el uso de un software avanzado es posible:

- consultar las características fotométricas de las luminarias para un uso óptimo.
- elaborar y calcular en detalle el nivel de iluminación y de uniformidad de los esquemas de trabajo.
- en los resultados obtenidos, se hallan presentes los valores de iluminación medios (curvas isolux).
- las fotometrías están disponibles en el sitio www.ideallux.it.

DE

KUNDENBETREUUNG UND LICHTTECHNISCHE KONTROLLE

IDEALLUX® bietet ihren Kunden und Planern einen Service für eine lichttechnische Kontrolle des eigenen Projekts.
Durch Mithilfe von modernster Software ist es möglich:

- das Nachschlagen der photometrischen Eigenschaften eines bestimmten Artikels zu konsultieren
- die detaillierte Berechnung und Auslegung der Lichtausbeute und der gleichmäßigen Lichtverteilung auf den betroffenen Ebenen
- die tabellarische Aufstellung der errechneten Lichtkennwerte mit mittlerer Beleuchtungsstärke, Isolux-Kurven pro Raum usw.
- die Photometrie sind auf die Web-site www.grupporaina.it verfügbar

RU

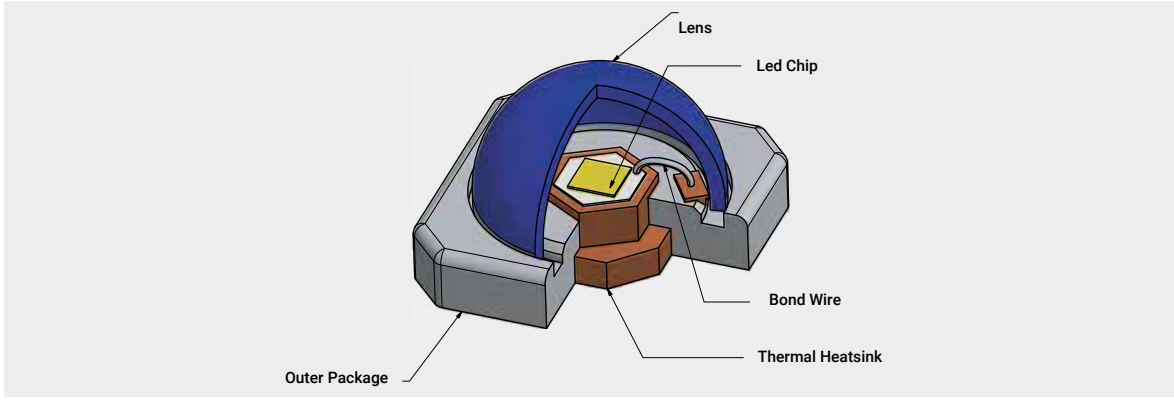
ОБСЛУЖИВАНИЕ КЛИЕНТОВ

IDEALLUX® предоставляет своим клиентам и дизайнерам помощь в проектировании освещения. Благодаря использованию современного программного обеспечения возможно:

- обратитесь к фотометрическим характеристикам прибора для соответствующего применения
- разработать и детально рассчитать уровень освещенности и равномерности рабочих планов.
- В полученных работах представлены средние значения освещенности (кривые изолюкс).
- Фотометрия доступна на сайте www.ideallux.it

LED: WHAT AND HOW IT WORKS

LED is the acronym for LIGHT EMISSION DIODE. This is an optoelectronic device, which uses the optical properties of some semiconductor materials to emit light when electrical current passed through them. The LEDs for lighting are realized starting from one diode, which is able to emit blue light, onto which a fluorescent layer is applied (normally phosphorous) which converts the light source into white light. The combination of different semiconductor materials of the basic diode and the type of the applied fluorescent material creates LED with colour temperature from 2700 K to 6500 K and high colour rendering (up to CRI>90). Development and research applied to LEDs have enabled this technology to be the real alternative to traditional light sources in both light quantity and quality.



IT

LED: COS'È E COME FUNZIONA

La sigla LED è l'acronimo inglese di Light Emitting Diode, diodo a emissione luminosa.Si tratta di un dispositivo optoelettronico che sfrutta le proprietà ottiche di alcuni materiali semiconduttori di emettere luce blu quando attraversati da una corrente elettrica. I LED utilizzati nell'illuminazione sono realizzati partendo da un diodo in grado di emettere luce blu su cui è applicato uno strato fluorescente (normalmente fosforo) che converte la fonte luminosa in luce bianca.La combinazione di differenti materiali semiconduttori del diodo di base e il tipo di materiale fluorescente applicato, consentono di creare LED con temperatura colore da 2700K a 6500K ed elevata resa cromatica (fino a CRI>90). Sviluppo e ricerca applicate ai LED hanno portato questa tecnologia ad essere la reale alternativa alle fonti di illuminazione tradizionali sia per quantità che per qualità della luce.

FR

QU'EST-CE QU'UNE LED ? COMMENT FONCTIONNE UNE LED

XUne LED, acronyme de Light Emitting Diode (diode électroluminescente). Il s'agit d'un dispositif exploitant les propriétés optiques de certains matériaux semi-conducteurs qui émettent de la lumière bleue lorsqu'ils sont traversés par un courant électrique. Les LED utilisées pour l'illumination sont réalisées à partir d'une diode pouvant émettre une lumière bleue sur laquelle une couche fluorescente est appliquée (normalement du phosphore) qui transforme la source lumineuse en une lumière blanche. La combinaison entre différents matériaux semiconducteurs de la diode de base et le type de matériel fluorescent appliqué, permettent de créer des LED ayant une température de couleur de 2700K à 6500K et un rendement chromatique élevé (jusqu'à CRI>90). Le développement et la recherche appliqués aux LED font de cette technologie une alternative réelle aux sources éclairage traditionnelles aussi bien en termes de quantité que de qualité de la lumière.

ES

LED: QUÉ ES Y CÓMO FUNCIONA

XLa sigla LED es el acrónimo inglés de Light Emitting Diode, diodo emisor de luz. Se trata de un dispositivo optoelectrónico que aprovecha las propiedades ópticas de algunos materiales semiconductores que emiten luz azul cuando son atravesados por una corriente eléctrica. Los leds utilizados en la iluminación se realizan a partir de un diodo capaz de emitir luz azul, sobre el cual se aplica una capa fluorescente (normalmente fósforo) que convierte la fuente luminosa en luz blanca. La combinación de los diferentes materiales semiconductores del diodo de base y el tipo de material fluorescente aplicado, permiten crear leds con temperatura de color desde 2700K a 6500K y elevado rendimiento cromático (hasta CRI>90). El desarrollo y las investigaciones aplicadas a los leds llevan a esta tecnología a ser una verdadera alternativa a las fuentes de iluminación tradicionales, tanto en términos de cantidad como de calidad de la luz.

DE

LED: BESCHREIBUNG UND FUNKTION

Der Begriff LED ist eine Abkürzung und bedeutet im englischen "Light Emitting Diode", zu Deutsch Licht emittierende Diode. Das optoelektronische Bauteil nutzt die Eigenschaften bestimmter Halbleitermaterialien, bei Stromdurchfluß Lichtstrahlen auszusenden. Die in der Beleuchtungstechnik üblichen LEDs bauen auf einer Diode auf, die blaues Licht abstrahlt. Auf diese Diode ist eine fluoreszierende Schicht aufgebracht (meist Phosphor), die das ausgehende blaue Licht in weißes Licht umwandelt. Die Kombinationen aus verschiedenen Halbleitermaterialien der Basisdiode sowie der aufgebrachten fluoreszierenden Schicht ermöglicht die Herstellung von LEDs mit unterschiedlichen Farbtemperaturen von 2700 K bis 6500 K und mit besonders hohem Farbwiedergabeindex R (CRI, bis > 90). Die intensive Forschung und Entwicklung im Bereich der LEDs führten dazu, daß diese Technologie heute eine echte Alternative zu den herkömmlichen Leuchtmitteln darstellt und vergleichbare Lichtmengen und Lichtqualität bieten kann.

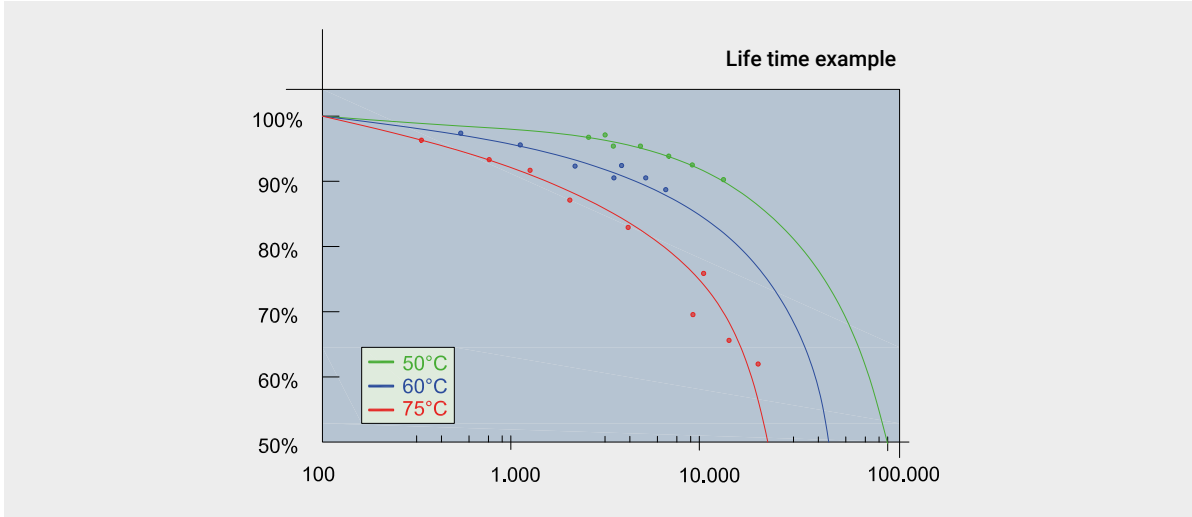
RU

LED: ЧТО ТАКОЕ И КАК ЭТО РАБОТАЕТ

Аббревиатура LED - это английская аббревиатура «Светоизлучающий диод», оптоэлектронное устройство, использующее оптические свойства некоторых полупроводниковых материалов для излучения синего света при пересечении электрическим током. Светодиоды, используемые в освещении, сделаны из диода, способного излучать синий свет, на который нанесен флуоресцентный слой (обычно люминофор), который преобразует источник света в белый свет. Сочетание различных полупроводниковых материалов основного диода и тип применяемого флуоресцентного материала, они позволяют создавать светодиоды с цветовой температурой от 2700K до 6500K и высокой цветопередачей (до CRI> 90). Разработка и исследования светодиодов привели к тому, что эта технология стала реальной альтернативой традиционным источникам освещения с точки зрения количества и качества света.

LED: LIFE TIME

Unlike traditional sources LEDs will not turn off suddenly at their working (or service) end of life, but they will slowly decrease their initial luminous flux until they turn off completely. The words "LIFE TIME" indicates the working life of LEDs considering emitted light (in percentage) up to reaching the number of stated operating hours. This value is indicated with letter "L". The letter "B" indicates the percentage of LEDs which could not guarantee the stated flow. For example: 50.000h L80/B20 indicates that the LEDs installed will have the residual flux equal to 80% after 50.000 working-hours (L80) and this value is guaranteed for 80% of the diodes (B20=20% of the diodes for which the stated working life is not guaranteed).



IT

LED: ASPETTATIVA DI VITA

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

FR

LED: DURÉE DE VIE

Contrairement à ce qui se produit pour les lampes traditionnelles qui peuvent s'arrêter de fonctionner avant la fin de sa durée de vie, avec une LED on assiste à une lente diminution du flux lumineux initial jusqu'à son épuisement complet. L'indication "durée de vie" définit la durée de vie utile de la LED en considérant la lumière émise (en pourcentage) pour atteindre les heures de fonctionnement déclarées. Cette valeur est indiquée par la lettre "L". La lettre "B" indique le pourcentage de LED qui pourraient ne pas garantir le flux déclaré. Par exemple : 50.000h L80/B20 indique que les LED installées auront un flux résiduel égal à 80 % après 50.000 heures de fonctionnement (L80), et que cette donnée est garantie pour 80 % des diodes (B20 = 20 % des diodes pour lesquelles la durée déclarée n'est pas garantie).

ES

LED: EXPECTATIVA DE VIDA

Contrariamente a lo que ocurre con las lámparas tradicionales que tienden a apagarse automáticamente al completar su ciclo de vida útil, en el LED se observa una lenta disminución del flujo luminoso hasta agotarse por completo. Con la indicación "vida útil" se indica por lo tanto la expectativa de vida útil del LED, considerando la luz emitida (en porcentajes) al alcanzar el total de horas de funcionamiento declaradas. Este valor se indica con la letra "L". Con la letra "B" se indica el porcentaje de leds que podrían no garantizar el flujo indicado. Por ejemplo: 50.000h L70/B20 indica que los leds instalados tendrán un flujo residual del 80% después de 50.000 horas de funcionamiento (L70), y que este dato es garantizado para el 80% de los diodos (B20= 20% de diodos en los que no se garantiza la duración indicada).

DE

LED: LEBENSDAUER

Entgegen den herkömmlichen Leuchtmitteln, die an ihrem Ende der Lebensdauer in der Regel unerwartet und schlagartig ausgehen, reduziert sich bei LEDs der abgegebene Lichtstrom nach und nach bis zum Lebensende und führt somit zu einem langsamen Verdunkeln der Lichtquelle. Unter "Lebensdauer" versteht man daher bei LEDs den verwendbaren Zeitraum, an dessen Ende die abgegebene Lichtmenge einen gewissen prozentualen Wert der Anfangslichtmenge erreicht. Dieser Prozentwert wird mit dem Buchstaben "L" bezeichnet. Diesem folgt die Angabe, wieviele der vorhandenen LEDs diesen Wert garantieren müssen. Angegeben wird dies mit dem Buchstaben "B" und dem Anteil der LEDs, die die geforderte Lichtmenge nicht mehr erreichen könnten. Beispiel: 50.000 h L80B20 bedeutet, daß die verbauten LEDs nach 50.000 Betriebsstunden noch einen Lichtstrom von mindestens 80% des Nennstroms aufweisen (L80) und daß dieser Lichtstrom noch von mindestens 80% der vorhandenen LEDs erreicht wird (B20 = für 20% der Dioden wird die genannte Lebensdauer nicht garantiert).

RU

СВЕТОДИОД: ОЖИДАНИЕ ЖИЗНИ

Contrariamente a quanto avviene per le lampade tradizionali che tendono a spegnersi improvvisamente a fine vita, nel LED si ha una lenta diminuzione del flusso luminoso iniziale fino al completo esaurimento. Con l'indicazione "durata di vita" si indica pertanto l'aspettativa di vita utile del LED considerando la luce emessa (in percentuale) al raggiungimento delle ore di funzionamento dichiarate. Questo valore è indicato con la lettera "L". Con la lettera "B" si indica la percentuale di led che potrebbero non garantire il flusso dichiarato.Ad esempio: 50.000h L80/B20 indica che i LED installati avranno un flusso residuo pari all'80% dopo 50.000 ore di funzionamento (L80), e che questo dato è garantito per l'80% dei diodi (B20= 20% di diodi per i quali non è garantita la durata dichiarata).

LED: LIGHT QUALITY

During production it is not possible to expect the fully LED diodes characteristics and it is necessary to select the diodes once they are produced. LED Binning is way of sorting the chips LED so that all the LEDS from one particular bin look the same and have similar light out. The purchase costs are higher in case of request of LEDs with reduced binning (i.e. purchase LED with similar characteristics). When talking about the quality of light it is important to introduce the concept of color consistency, i.e. to inform the user that two fixtures with the same color temperature (e.g. 3.000K) could generate two different effects on the same surface area in terms of the light color perception. In order to avoid this problem and to measure the differences of color, it is necessary to refer to the system based on MacAdam ellipses. MacAdam ellipses are described as "steps" and they indicate how any color shade circumscribed by the perimeter of the ellipsis compared to a central reference, is indistinguishable to a human eye even if instrumentally it shows differences. In order to optimize the quality and chromatic uniformity of light sources, the LED used by IDEALLUX® are selected to achieve a 3 Step MacAdam precision (3 SDCM - Standard Deviation of Color Matching).



Different LED source lighting

LED: LIGHT QUALITY

IT

LED: QUALITÀ DELLA LUCE

Le caratteristiche dei diodi LED non possono essere completamente previste in fase di realizzazione ma occorre effettuare una selezione dei diodi una volta realizzati. Con Spesso sentiamo parlare di Binning dei LED, è il metodo di ordinamento dei chips LED in modo che i LED selezionati in un particolare gruppo di appartenenza abbiano aspetto e caratteristiche simili. La richiesta di LED aventi un binning ridotto (cioè acquistare LED con le caratteristiche simili) si traduce in costi di approvvigionamento maggiori considerando una selezione più accurata. Parlando di qualità della luce è importante introdurre il concetto di consistenza del colore cioè informare l'utilizzatore che due apparecchi con la stessa temperatura di colore (es. 3.000K) possono generare due effetti diversi sulla stessa superficie in termini di colore percepito della luce. Per ovviare a questo problema e per misurare le differenze di colore si è fatto ricorso al sistema basato sulle ellissi di MacAdam. Le ellissi di MacAdam sono descritte come "step" e definiscono come qualsiasi tonalità di colore circoscritta dal perimetro dell'ellisse rispetto ad un riferimento centrale, non è percepita dall'occhio umano anche se strumentalmente presenta differenze. Al fine di ottimizzare qualità e uniformità cromatica delle fonti luminose, I LED utilizzati nei prodotti IDEALLUX® sono selezionati per ottenere una precisione pari a 3 Step di MacAdam (3 SDCM - Standard Deviation of Color Matching).

FR

LED: QUALITÉ DE LA LUMIÈRE

Les caractéristiques des diodes LED ne peuvent pas être complètement prévues pendant la phase de réalisation mais il est nécessaire d'effectuer une sélection des diodes enfin réalisées. On entend souvent parler de Binning des LED, il s'agit de la méthode de classement des puces (LED Chips) de sorte que les LED sélectionnées dans un groupe particulier d'appartenance ont un aspect et des caractéristiques similaires. La demande de LED ayant un binning réduit (c'est-à-dire acheter des LED avec les mêmes caractéristiques) se traduit par des coûts d'approvisionnement plus élevés compte tenu du fait que la sélection devra être plus soignée. En ce qui concerne la qualité de la lumière il est important d'introduire le concept de la consistance de la couleur en informant l'utilisateur du fait que deux appareils ayant la même température de couleur (ex : 3.000K) peuvent générer deux effets différents sur la même superficie en termes de couleur de la lumière perçue. Pour contourner ce problème et pour mesurer les différences de couleur on a eu recours au système basé sur les ellipses de MacAdam. Les ellipses de MacAdam sont décrites comme "step" et elles définissent comment toute sorte de tonalité de couleur circonscrite par le périmètre de l'ellipse par rapport à un point de référence central, n'est pas perçue par l'oeil humain même si elle présente des différences. Afin d'optimiser la qualité et l'uniformité chromatique des sources lumineuses, les LED utilisées dans les produits IDEALLUX® sont sélectionnées pour obtenir une précision égale à 3 Steps de MacAdam (3 SDCM - Standard Deviation of Color Matching).

ES

LED: CALIDAD DE LA LUZ

Las características de los diodos LED no pueden preverse completamente en su fase de realización, por lo que es necesario efectuar una selección de los diodos una vez realizados. Con frecuencia oímos hablar de Binning de los leds, es el método para pedir los chips LED, de modo que los leds seleccionados en un determinado grupo de pertenencia tengan aspecto y características similares. Una solicitud de leds con binning reducido (es decir, adquirir leds con características similares) se traduce en costes de aprovisionamiento mayores considerando una selección más precisa. Al referirnos a la de calidad de la luz es importante introducir el concepto de consistencia del color, o sea informar al usuario que dos luminarias con la misma temperatura de color (ej. 3.000K) pueden generar dos efectos diferentes sobra la misma superficie en términos de color percibido de la luz. Para evitar este problema y para calcular las diferencias de color se recurre al sistema basado en las elipses de MacAdam. Las elipses de MacAdam se describen como "pasos" y se definen como cualquier tono de color circunscripto en el perímetro de la elipse respecto a un punto central, no es percibido por el ojo humano aunque presente diferencias instrumentales. A fin de optimizar la calidad y la uniformidad cromática de las fuentes luminosas, los leds utilizados en los productos IDEALLUX® Línea Colombo se seleccionan para obtener una precisión igual a 3 pasos de MacAdam (3 SDCM - Standard Deviation of Color Matching).

DE

LED: LICHTQUALITÄT

Bei der Herstellung der LEDs kommt es zu Streuungen der Farbparameter, die eine Selektierung der produzierten Dioden notwendig machen, dem sogenannten "Binning"(vom englischen "bin" = Behälter). Eine besonders akkurate Selektion ist aufwändiger und führt zu höheren Einkaufspreisen der LEDs, garantiert aber Leuchtmittel mit einer besseren, da gleichmäßigeren Lichtqualität. In diesem Zusammenhang ist es notwendig, auf eine ausreichende Farbkonsistenz zu achten. Denn es ist grundsätzlich möglich, daß zwei Lampen mit der nominell gleichen Farbtemperatur (z.B. 3.000 K) zwei unterschiedlich empfundene Lichteffekte auf der gleichen Oberfläche generieren können. Zur besseren Abgrenzung wurde daher eine ANSI-Norm geschaffen, die diese Farbwertabweichungen mithilfe der MacAdams-Ellipsen definiert. Diese Ellipsen beschreiben die Farbabstände auf einem XY-Koordinatensystem. Die Anzahl ("Steps") der von den verschiedenen LEDs erfassten MacAdams-Ellipsen informiert den Nutzer darüber, wie weit die Lichtfarben einzelner LEDs voneinander abweichen (Farbtoleranz). Die von IDEALLUX eingesetzten LEDs entstammen einer strengen Selektion mit nur 3 Steps nach MacAdam (3 SDCM = Standard Deviation of Color Matching). Die Mindestempfehlung der ANSI-Norm liegt bei 4 Steps, die also eine größere Farbabweichung zuläßt.

RU

LED: QUALITÀ DELLA LUCE

Характеристики светодиодных диодов не могут быть полностью предусмотрены во время строительства, но необходимо сделать выбор диодов после их изготовления. Мы часто слышим о биннинге светодиодов, это метод сортировки чипов светодиодов таким образом, чтобы светодиоды, выбранные в определенной группе, к которой они относятся, имели одинаковый внешний вид и характеристики. Спрос на светодиоды с уменьшенным биннингом (то есть на покупку светодиодов с аналогичными характеристиками) приводит к более высоким затратам на закупку с учетом более точного выбора. Говоря о качестве света, важно ввести концепцию согласованности цветов, то есть проинформировать пользователя о том, что два прибора с одинаковой цветовой температурой (например, 3000 K) могут создавать два разных эффекта на одной поверхности с точки зрения воспринимаемого цвета света. Чтобы преодолеть эту проблему и измерить цветовые различия, использовалась система на основе эллипсов MacAdam. Эллипсы Макадама описываются как «ступеньки» и определяют, как любой оттенок цвета, описанный по периметру эллипса относительно центрального ориентира, не воспринимается человеческим глазом, даже если инструментально представляет различия. Чтобы оптимизировать качество и однородность цвета источников света, светодиоды, используемые в продуктах IDEALLUX®, выбраны так, чтобы получить точность, равную 3 шагу MacAdam (3 SDCM - Стандартное отклонение соответствия цветов).

SILICON OPTICS

CHARACTERISTICS AND BENEFITS

The use of printed silicon optics applied to LED technology allow the realization of professional fixtures with high performance through the optimization of the optical and mechanical characteristics.

The use of the silicon optics guarantee:

- Optical waterproof unit – the correctly installed lens guarantees the impermeability of the optic group without the use of secondary gaskets.
- High thermal resistance suitable for extreme environments too – the use of silicon allows to produce optical units able to resist to working temperatures between -40° and +150° (with spikes up to +200°C too); this characteristic is an important benefit considering the direct exposure to the solar rays and relative heating of the fittings surfaces during the daylight hours.
- High UV resistance both external and from the source – a further characteristic of the silicon is the high UV resistance without external treatments. The risk of yellowing is nearly void.
- Resistance and lightness – the fittings with same power and dimensions result stronger and lighter compared to same version with glass cover; the silicon optic presents high IK resistance (IK10), high natural abrasion resistance and high resistance to microfractures.
- High optical output – through use of silicon optics the fixtures have high optical outputs, as it can be obtained trasmittances until 94-96%. This result cannot be reached through use of traditional fitting produced with aluminium reflector and front protection glass.

Furthermore the quick evolution of this recent technology together with the high material workability allows the realization of different types of optics enabling the designers to realize fittings with photometrical distributions studied properly for the destination of use of the products



IT

CARATTERISTICHE E VANTAGGI

L'utilizzo di lenti stampate in silicone applicate alla tecnologia LED permettono di realizzare apparecchi professionali con ottime performance ottimizzando le caratteristiche ottiche e meccaniche;

L'impiego delle ottiche in silicone infatti garantisce:

- Tenuta stagna del gruppo ottico intrinseca – è la stessa lente, opportunamente installata, che garantisce l'impermeabilità del vano ottico senza ricorrere a guarnizioni secondarie.
- Resistenza termica elevata ideale anche in ambienti estremi – l'utilizzo del silicone consente di realizzare gruppi ottici che possono resistere (senza subire variazioni meccaniche ed ottiche) a temperature di lavoro comprese tra i -40°C e +150°C (anche con picchi fino a +200°C); questa caratteristica è un vantaggio considerando l'esposizione diretta ai raggi solari e relativo riscaldamento delle superfici, che gli apparecchi di illuminazione subiscono durante le ore diurne.
- Elevata resistenza agli UV sia esterni che della sorgente – un'ulteriore caratteristica del silicone è quella di avere una elevata resistenza ai raggi ultravioletti senza trattamenti esterni tanto da considerare il rischio ingiallimento pressoché nullo.
- Resistenza e leggerezza – a parità di potenza e dimensioni gli apparecchi di illuminazione risultano più robusti e leggeri rispetto ad un'analoga versione con vetro di chiusura; l'ottica in silicone presenta un grado di resistenza all'impatto IK elevato (IK10) ed alle microfratture oltre che una naturale resistenza all'abrasione.
- Rendimento ottico elevato – un prodotto realizzato con l'ausilio di ottiche siliconiche è un prodotto con ottimi rendimenti ottici dati dal fatto che si possono raggiungere trasmittanze fino al 94-96% cosa non realizzabile con prodotti tradizionali realizzati con riflettore in alluminio e vetro di protezione anteriore.

Inoltre, la veloce evoluzione di questa recente tecnologia, unitamente alla lavorabilità elevata del materiale, ha consentito di realizzare differenti tipi di ottiche consentendo ai progettisti di realizzare apparecchi con distribuzioni fotometriche mirate per la destinazione d'uso dei prodotti.

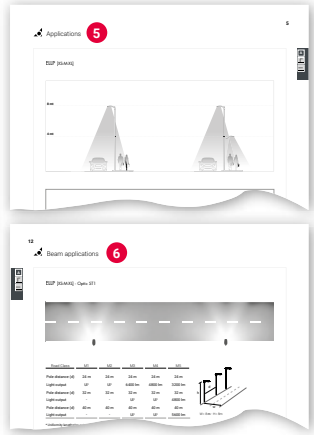
For french, spanish, german and russian translations, please refer to our web site

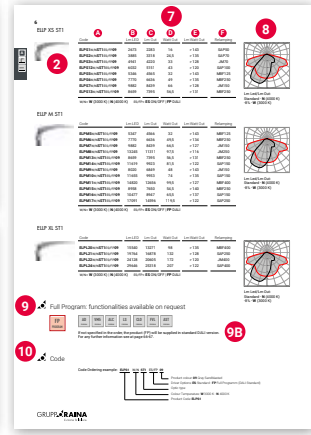


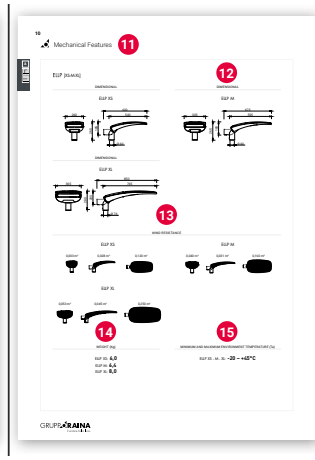
LEGENDA

HOW TO READ THE CATALOGUE - STREET LIGHTS









	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения
6	"Beam" applications	Applicazioni "fascio luminoso"	Utilisations "faisceau lumineux"	Aplicaciones " haz de luz"	" Lichtstrahls" Anwendung	Применения "луча"
7	Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
8	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
9	"Full Program" functions	Funzioni "Full Program"	Fonctions "Full Program"	"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"
9B	If not specified in the order, the product (FP) will be supplied in standard DALI version. For any further information see at page 66-67.	Se non specificato in fase di ordine, il prodotto (FP) sarà fornito con funzionalità standard DALI. Ulteriori informazioni vedi pagina 66-67.	En absence d'indication particulière à la commande, le produit (FP) sera fourni dans la version standard DALI. Informations supplémentaires cf. page 66-67.	Sin más especificaciones en el pedido, el producto (FP Full Program) será suministrado con la función estándar DALI. Para más detalles ver página 66-67.	Falls bei der Bestellung keine Funktionsanforderung angegeben ist, wird das Produkt (FP Full Program) mit Standard-DALI-Funktionalität geliefert. Für weitere Informationen sehen Sie Seite 66-67.	Если не указано иное во время заказа, продукт (FP) будет поставляться со стандартной функцией DALI. Дополнительная информация на странице 66-67.
10	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
11	Mechanical features	Caratteristiche meccaniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
12	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
13	Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
14	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
15	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maximale Temperatur (Ta)	Минимальная температура и максимальная (Ta)

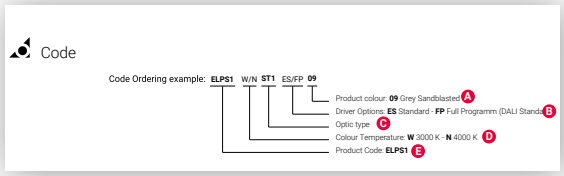
LEGENDA

7 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

10 ORDER CODE EXAMPLE

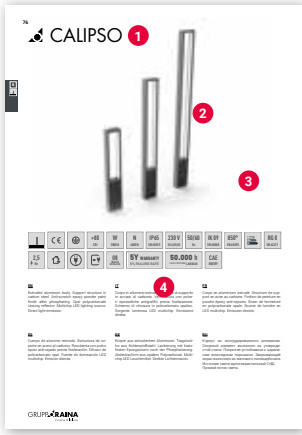
- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

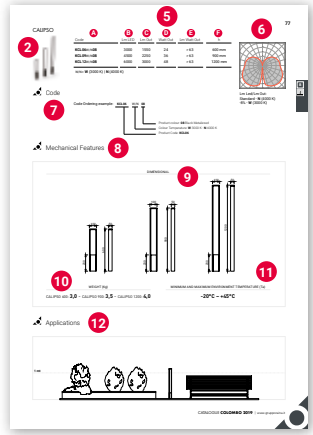


	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Driver type	Tipo di driver	Type de câblage	Tipo de cableado	Treibertyp	Тип драйвера
C	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
D	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
E	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

HOW TO READ THE CATALOGUE - BOLLARD





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9	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
10	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
11	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)
12	Applications	Applicazioni	Utilisations	Aplicaciones	Anwendungen	Применения

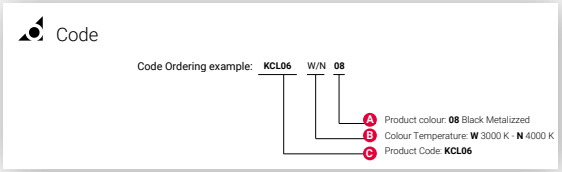
LEGENDA

5 PRODUCT CHARACTERISTICS TABLE

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D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

7 ORDER CODE EXAMPLE

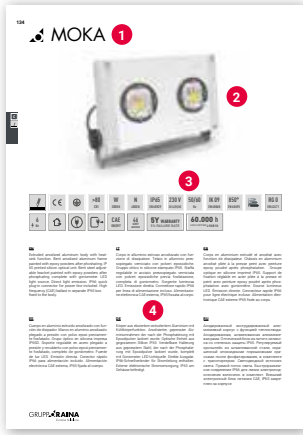
- It is the article code to be used to compose the order code.
- È il codice articolo da usare per comporre il codice d'ordine.
- Il s'agit du code d'article à utiliser pour composer le code de commande.
- Este es el código de artículo que se utilizará para redactar el código de pedido.
- Dies ist der Artikelcode, aus dem der Bestellungscode zusammengestellt wird.
- Это код продукта, который используется для составления кода заказа.

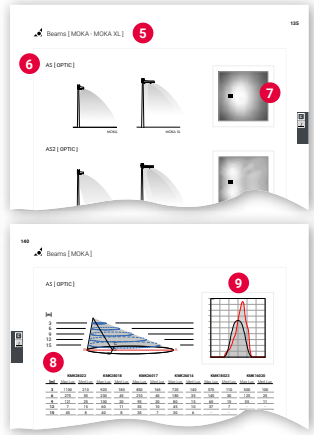


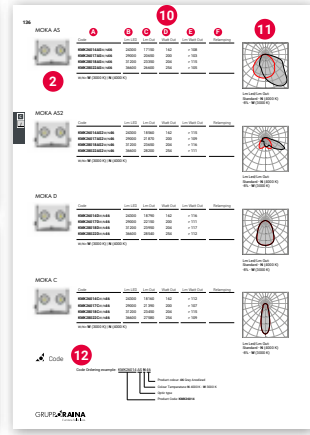
	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
B	Colour temperature	Temperatura di colore	Température de couleur	Temperatura de color	Farbtemperatur	Цветовая температура
C	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

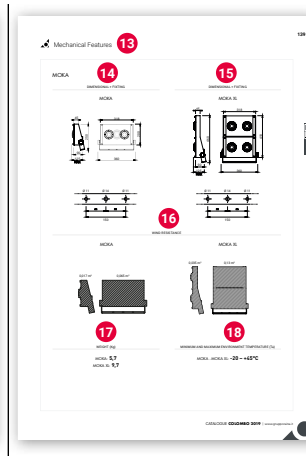
LEGENDA

HOW TO READ THE CATALOGUE - FLOODLIGHTS









	EN	IT	FR	ES	DE	RU
1	Fitting name	Denominazione articolo	Désignation de l'article	Designación del artículo	Artikelbezeichnung	Обозначение статьи
2	Product image	Immagine prodotto	Image du produit	Imagen del Producto	Produktbild	Изображение продукта
3	Technical details (See symbols Page XXVI-XXIX)	Dati tecnici (Vedi simboli Pag. XXVI-XXIX)	Caractéristiques Techniques (Voir symboles Page XXVI-XXIX)	Datos técnicos (Ver símbolos Página XXVI-XXIX)	Technische Daten (siehe Symbole Seite XXVI-XXIX)	Технические данные (см. Символы на стр. XXVI-XXIX)
4	Product description	Descrizione Prodotto	Description du produit	Descripción del producto	Produkt-Beschreibung	Описание продукта
5	Beam angle	Angolo del fascio luminoso	Angle du faisceau lumineux	Ángulo del haz de luz	Winkel des Lichtstrahls	угол светового луча
6	Optic type	Tipo di ottica	Type de optique	Tipo óptico	Optiktyp	Оптический тип
7	Isolux diagrams	Isolinee illuminamento	Diagrammes Isolux	Diagramas de Isolux	Ausleuchtungsdia-gramme	Isolux диаграммы
8	Beam diagrams	Rappresentazione del fascio	Diagramme de faisceau lumineux	Diagrama del haz de luz	Lichtstrahlendiagramm	диаграмма луча
9	Cartesian diagrams	Curva cartesiana	Diagramme cartésien	Diagrama cartesiano	Kartesische Diagramme	Декартовы диаграммы
10	Product data (see page XXI)	Dati prodotto (vedi pagina XXI)	Données produit (voir page XXI)	Datos del producto (ver página XXI)	Produktdaten (siehe Seite XXI)	Данные об изделии (см. стр. XXI)
11	Polar diagrams	Curva polare	Diagramme polaire	Diagrama polar	Polardiagramme	Полярные диаграммы
12	Order code example	Esempio codice d'ordine	Exemple du code pour commande	Ejemplo de orden de código	Bestellcode Beispiel	Пример кода заказа
13	Mechanical features	Caratteristiche mec-caniche	Caractéristiques mécaniques	Caracteristicas mecanicas	Mechanische Eigenschaften	Механические характеристики
14	Dimensional drawing	Disegno dimensionale	Dessin dimensionnel	Dibujo dimensional	Maßzeichnung	габаритный чертеж
15	Fixting	Fissaggi	Fixation	Fijación	Befestigung	монтажные отверстия
16	Wind resistance	Resistenza al vento	Résistance au vent	Resistencia al viento	Luftwiderstand	Сопротивление ветра
17	Fixture weight	Peso apparecchio	Poids de l'appareil	Peso de la luminaria	Produktsgewicht	Вес изделия
18	Minimum and maximum temperature (Ta)	Temperatura minima e massima (Ta)	Température minimum et maximum (Ta)	Temperatura mínima y máxima (Ta)	Minimale und maxima-le Temperatur (Ta)	Минимальная температура и максимальная (Ta)

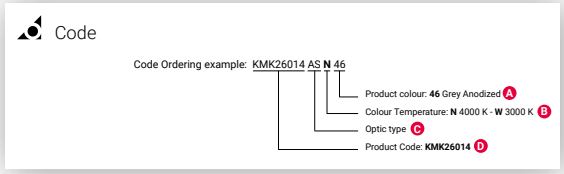
LEGENDA

10 PRODUCT CHARACTERISTICS TABLE

	EN	IT	FR	ES	DE	RU
A	Code	Codice	Code	Código	Code	код
B	Nominal lumen LED at 25°C	Lumen nominali LED a 25°C	Lumen nominaux LED à 25°C	Lúmenes nominales LED a 25°C	Nominale Lumen LED max 25 °C	Номинальный люмен светодиодов при 25 °C
C	Total lighting fitting flux output at working temperature (Ta 25°C) tolerance: +/- 10%	Flusso totale in uscita dall'apparecchio a temperatura di lavoro (Ta 25°C) tolleranza: +/- 10%"	Flux total sortie de l'appareil à température de travail (Ta 25°C) tolérance: +/- 10%	Flujo total de salida del aparato a temperatura de trabajo (Ta 25°C) tolerancia: +/- 10%	Ausgangslichtstrom bei Arbeitstemperatur (Ta 25°C) Toleranz: +/- 10%	Общий поток, выходящий из устройства при рабочей температуре (Ta +25 ° C) толерантность +/- 10%
D	It is the total power absorbed by power grid from the lighting fitting. The value includes the power consumption of the power supply with a thermally stabilized device operating in an environment at 25 ° C. **Tolerance: +/- 10%**	È la potenza totale assorbita dalla rete elettrica dall'apparecchio di illuminazione. Il dato indicato è comprensivo dei consumi dell'alimentatore elettronico con apparecchio stabilizzato a regime termico operante in ambiente con temperatura pari a 25°C. **Tolleranza: +/- 10%**	Puissance totale absorbée par le réseau électrique de l'appareil d' éclairage. La donnée indiquée tient compte la consommation de l'alimentateur électronique avec un appareil stabilisé à un régime thermique travaillant dans un milieu dont la température est égale à 25°C. **Tolérance: +/- 10%**	Es la potencia total absorbida por la red eléctrica de la luminaria. El dato indicado incluye el consumo del balasto electrónico con la luminaria estabilizada a régimen térmico funcionando en un entorno con temparatura de 25°C. **Tolerancia: +/- 10%**	Dies ist die Gesamtleistung, die das elektrische Netzwerk von der Beleuchtungseinrichtung absorbiert. Die angegebenen Daten beinhalten den Verbrauch der elektronischen Stromversorgung, mit thermisch stabilisiertem Gerät, das in einer Umgebung mit einer Temperatur von 25 ° C betrieben wird **Toleranz: +/- 10%**	Это общая мощность, потребляемая электрической сетью от осветительного оборудования. Данные указывают потребление электронного источ- ника питания с оборудованием, стабилизированным в тепловом режиме, работающем в среде с емпературой + 25 ° C. **Толерантность +/- 10%**
E	This values identifies the real efficiency of the lighting fitting as it indicates the out flux for each Watt absorbed by power grid	Indica l'efficienza reale dell'apparecchio di illuminazione, il dato si riferisce al flusso in uscita per ogni Watt assorbito dalla rete elettrica	Rendement réel de l'appareil éclairage qui indique le flux en sortie pour chaque Watt absorbé par le réseau électrique.	Indica la eficacia real de la luminaria indicando el flujo luminoso emitido por cada Watt absorbido por la red eléctrica.	Zeigt die tatsächliche Effizienz der Leuchte an, indem sie den Ausgangsstrom für jedes vom elektrischen Netzwerk aufgenommene Watt angibt	Показывает реальную эффективность светильника, данные указывают поток выхода для каждого ватта, поглощаемого электрической сетью.
F	Relamping	Relamping	Relamping	Relamping	Relamping	Замена лампы

12 ORDER CODE EXAMPLE

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- Il s'agit du code d'article à utiliser pour composer le code de commande.
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	EN	IT	FR	ES	DE	RU
A	Product colour	Colore apparecchio	Couleur produit	Color de producto	Farbcode	Цвет продукта
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D	Product code	Codice prodotto	Code produit	Código de producto	Produktcode	Код продукта

LEGENDA

POSSIBLE APPLICATIONS

APPLICAZIONI POSSIBILI | APPLICATIONS POSSIBLES | POSIBLES APLICACIONES | MÖGLICHE ANWENDUNGEN | ВОЗМОЖНЫЕ ПРИМЕНЕНИЯ

	EN	IT	FR
	Fixed pole-top installation (60 mm diameter pole head).	Installazione fissa cima palo (testa palo diametro 60 mm).	Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre)
	Installation on arm	Installazione a sbalzo	Installation sur crosse
	Bollard light	Colonne luminose	Colonnes lumineuses
	Floodlight	Proiettore	Projecteur

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
	Indicates that the product meets the requirements of the applicable EC Directives of the regulations in the EU	Indica che il prodotto è conforme ai requisiti di sicurezza richiesti dalle direttive e dalle normative della Comunità Europea.	Certifie que le produit est réalisé au sein de l'Union Européenne et dans le respect des normes de sécurités en vigueur.
	Isolation class 1	Classe di isolamento 1	Classe d'isolation 1
	Isolation class 2	Classe di isolamento 2	Classe d'isolation 2
	CRI (Colour Rendering index) indicates how natural the colours of the illuminated objects look	CRI (Colour Rendering index) Indica quanto naturali appaiano i colori degli oggetti da essa illuminati.	CRI (Colour Rendering index)Indique le rendement des couleurs des objets éclairés.
	It identifies the colour temperature of the LEDS expressed in Kelvin	Indica la temperatura di colore del LED espressa in gradi Kelvin	Température de la couleur de la LED exprimée en degrés Kelvin
	Indicates the protection degree of the fixture against dust and water	Rappresenta il grado di protezione dell'apparecchio dalla polvere e dall'acqua.	Indique le degré de protection de l'appareil contre les poussières et l'eau
	Indicates the operating voltage of the fitting	Indica le tensioni operative dell'apparecchio.	Indique les tensions de travail de l'appareil
	Indicates the operating frequencies of the fitting	Indica le frequenze operative dell'apparecchio.	Indique les fréquences de travail de l'appareil
	Degree of Protection against external mechanical impact	Indica il grado di resistenza all'urto dell'involucro esterno dell'apparecchio.	Indique le degré de protection de l'emballage du produit contre les impacts mécanique externes
	It indicates the flammability degree of plastic materials according to CEI 50-11 standards	Indica il grado di infiammabilità dei materiali plastici in accordo alle normative CEI 50-11.	Indique le degré d'auto-extinction des matières plastiques selon les standards CEI 50-11-
	Energy consumption class	Classe energetica	Classe de consommation d'énergie
	Exempt Risk Group. Installed under normal conditions of use (minimum distance between user and light source of 4m)	Rischio Esente. Installata in normali condizioni d'impiego (distanza minima tra utilizzatore e sorgente luminosa di 4m)	Risque 0. Installée en conditions normales d'utilisation (distance minimum entre l'utilisateur et source lumineuse doit être 4mt)

LEGENDA

ES	DE	RU
Instalación fija a columna (columna diámetro 60mm).	Feste polkopfinstallation (polkopfdurchmesser 60 mm).	Несъёмная установка на столбе (диаметр головки столба 60 мм).
Instalación con carga	Freitragende installation	Установка на руку
Bolardos luminosos	Pollerleuchten	Столбик света
Proyector	Projektor	Прожектор

ES	DE	RU
Certifica que el producto es realizado en el ambito de la Comunidad Europea y respeta las normas de seguridad vigentes.	Gibt an, dass das Produkt den Sicherheitsanforderungen der Richtlinien und Verordnungen der Europäischen Gemeinschaft entspricht.	Указывает на то, что продукт соответствует требованиям безопасности, разработанным применяемыми директивами законодательства в Европейском союзе.
Clase de aislamiento 1	Isolationsklasse 1	Класс изоляции 1
Clase de aislamiento 2	Isolationsklasse 2	Класс изоляции 2
CRI (Colour Rendering index) Indica el nivel de apariencia naturallos colores de los objetos iluminados.	CRI (Colour Rendering index) Gibt an, wie natürlich die Farben der beleuchteten Objekte erscheinen.	CRI (Показатель цветопередачи) Он указывает, насколько натурально выглядят цвета освещаемых предметов.
Indica la temperatura de color del LED expresada en grados Kelvin	Zeigt die Farbtemperatur der LED in Kelvin-Graden	Определяет цветовую температуру светодиодов, выраженную в Кельвинах
Indica el grado de proteccion de la luminaria al polvo y al agua	Gibt den Schutzgrad des Geräts vor Staub und Wasser an.	Он показывает степень защиты поверхностей.
Indica las tensiones operativas de la luminaria	Zeigt die Betriebsspannungen des Geräts an.	Это указывает рабочее электрическое напряжение светильника.
Indica las frecuencias operativas de la luminaria.	Zeigt die Betriebsfrequenzen des Geräts an.	Это указывает рабочую частоту светильника.
Indica el grado de resistencia al impacto de la cubierta externa de la luminaria	Zeigt den Grad der Schlagfestigkeit des äußeren Gehäuses des Geräts an.	Степень защиты от воздействия внешних механических факторов
Indica el grado de auto extincion del material plastico segun los estandares estadounidense CEI 50-11.	Gibt den Entzündbarkeitsgrad von Kunststoffen gemäß CEI 50-11 an.	Он указывает степень воспламеняемости пластиковых материалов в соответствии со стандартами CEI 50-11.
Clase de consumo de energia	Energieverbrauchsklasse	Класс энергозатрат
Riesgo Exento. Instalada en condiciones normales de uso (distancia mínima de 4 metros entre utilizador y fuente luminosa)	Risikofrei. Unter normalen Betriebsbedingungen installiert (Mindestabstand zwischen Benutzer und Lichtquelle von 4 m)	Без риска. Уста- навливая при нор- мальных условиях использования (минимальное расстояние между пользователем и источником света 4 м)

LEGENDA

SYMBOLS OF TECHNICAL DETAILS

SIMBOLI DEI DATI TECNICI | SYMBOLES DE DONNÉES TECHNIQUES | SÍMBOLOS DE DATOS TÉCNICOS | TECHNISCHE DATEN SYMBOLE
ТЕХНИЧЕСКИЕ ОБОЗНАЧЕНИЯ

	EN	IT	FR
	Surge protector	Protezione contro le scariche atmosferiche	Protection contre les décharges atmosphériques
	Fitting suitable for outdoor use	Apparecchio idoneo per l'utilizzo in ambienti esterni	Luminaire adapté pour une installation en extérieur
	Integrated power supply	Alimentatore integrato	Alimentation intégrée
	Separate power supply	Alimentatore separato	Alimentation séparée
	Power supply	Alimentazione	Alimentation
	Black metallized colour	colore nero metallizzato	Couleur noir métallique
	Grey sandblasted colour	Colore grigio sabbiato	Couleur gris sablé
	Grey anodized	Grigio anodizzato	Gris anodisé
	Service Life LED	Aspettativa di vita del LED	Durée de vie LED
	Warranty. More details on our website	Garanzia. maggiori dettagli alla nostra pagina web	Garantie. Plus de détails sur notre page Web.
	Active temperature control	Controllo attivo della temperatura	Contrôle actif de la température
	ON/OFF operation	Funzionamento ON/OFF	Fonctions ON/OFF
	"Full Program" functions	Funzioni "Full Program"	Fonctions"Full Program"

LEGENDA

ES	DE	RU
Protección contra descargas atmosféricas	Schutz vor atmosphärischen Entladungen	Защита от атмос-ферных влияний
Luminaria adecuada para uso en exteriores	Leuchte für den Außenbereich geeignet	Прибор подходит для использования в помещениях внешний.
Fuente de alimentación integradal	Integrierte Stromversorgung	встроенный источник питания
Fuente de alimentación separada	Separate Stromversorgung	отдельный источник питания
Fuente de alimentación	Stromversorgung	Источник питания
Color negro metalizado	Metallische schwarze Farbe	черный металлик
Color gris arenado	Sandgestrahlte graue Farbe	Серый пескоструйный цвет
Anodizado gris	Grau eloxiert	Серый анодированный
Viad Util LED	LED-Lebenswartung	Срок службы СИД
Garantía. más detalles en nuestra página web.	Garantie. Weitere Details auf unserer Webseite	арантия. Дальнейшие детали на нашем сайте
Control activo de temperatura	Aktive Temperaturregelung	активный контроль температуры
Operación ON/OFF	EIN / AUS-Betrieb	ON/OFF операция
"Full Program" funciones	"Full Program" Funktionen	функции "Full Program"

CASE HISTORY

AMONG OUR CUSTOMERS WE COUNT:

- Penny market
- Assicurazioni Generali, Milano
- Negozi | Shops Nurith
- Ubi banca
- Mbda, La Spezia
- Negozi | Shops arredamento home plus
- De Rigo Refrigeration
- Ipermercati | Supermarket Coop
- Antony Morato
- Natuzzi Divani
- Brunello Cucinelli
- Negozi | Shops Orofino
- Depositi | Warehouses Comifar
- Piaggio
- Ups logistica | Logistic
- Santo Stefano S.P.A.
- Volkswagen
- Rapitech, Lecco
- Pelletteria Meucci, Scandicci
- Et Engineering&Technology, Perignano
- Favilli Pneumatici, Perignano
- Solettificio Guerrieri, Fucecchio
- Trelleborg
- Negozi | Shops Strolli Oro
- Negozi | Shops Profumerie Limoni
- Indesit
- Maletti group



Politecnico "Lecco"



Yeast Factory salataguse, "Estonia"



Orchid hotel, "Abu Dhabi", uae



Yeast factory Salataguse, "Estonia"

CASE HISTORY



Factory



Yeast factory Salataguse, "Estonia"



Office



Coop Supermarket

PROJECTS:

- Castello / *Castle*, Lerici
- Aeroporto | *Airport*, Pisa
- Concessionaria Fiat, Roma
- Palazzo | *Building* INPS , Genova
- Stabilimenti | *Factory* Acqua Uliveto
- Fiera | *Fair* Milano
- Fiera | *Fair* Roma
- Fiera | *Fair* Genova
- Ospedale | *Hospital* San Raffaele, Milano
- Base NATO, Napoli
- Carcere | *Prison* , Parma
- Scuole | *Schools*, Bari
- Politecnico, Lecco
- Istituto Poligrafico dello Stato, Roma
- Stadio | *Stadium* Meazza, Milano
- Stadio del Tennis | *Tennis Stadium*, Roma
- Torre | *Tower* Isozaki, Milano
- Torre | *Tower* Zucchetti, Lodi
- Torre | *Tower* Hadid, Milano
- Nuvola Lavazza, Torino
- Palazzo | *Building* Sky, Milano
- Asilo nido | *Nursery* Guastalla, Monza
- Ospedale | *Hospital* , Alessandria
- B&B Hotel, Sesto San Giovanni
- Aeroporto | *Airport* Namibe, Angola
- Arab Bank Amman, Giordania
- Al Jalila Cultural Center, Dubai UAE
- Bank of Sharjah, UAE

CASE HISTORY

PROJECTS:

- Giordania Mabada & Shuna Clinic, Giordania
- Palazzo | *Palace* Versace Hotel, Dubai UAE
- Dubai International Airport APM, Dubai UAE
- Institute of applied technology, Abu Dhabi UAE
- Arab Ready Food Mela, Giordania
- Khalifa Hospital, Dubai UAE
- Energy city, Doha Qatar
- Ethyad Tower, Abu Dhabi UAE
- Salam Mall, Kuwait
- Custom Buildings, Dubai UAE
- YAS Island Police Station, Abu Dhabi UAE
- Tangram Hotel Erbil, Iraq
- Emirates Bank, Dubai UAE
- Gold's gym, Kuwait
- Ghanima Hospital, Kuwait
- Al Raha Beach Development, Abu Dhabi UAE
- Al Raha Beach Apartments, Abu Dhabi UAE
- Grand Millenium Hotel, Iraq
- Burj Khalifa Tower, Dubai UAE
- Yas Marina Enhancement Main Contract works, Abu Dhabi UAE
- Red Valentino Boutique, Abu Dhabi UAE
- Arab Bank Sharjah Branch UAE
- 7th&8th floors fit-out works – The Gate Tower, Doha Qatar
- Arab Bank Airport Branch Amman, Giordania
- Finance House Tower, Dubai
- Al Ruwais, Abu Dhabi UAE



Ospedale di "Ginevra"



American University Suleiman, "Iraq"



Abacus hotel, "Hungary"



Negozio "Benetton"

CASE HISTORY



Homeplus



Brunello Cucinelli, Doha, "Qatar"



Alled Shopping Center, "Hungary"



Coop Supermarket

PROJECTS:

- Al Ali Villa at West Bay Lagoon, Qatar
- American office Abu Dhabi Airport, Abu Dhabi UAE
- Al Badie Rotana Hotel, Abu Dhabi UAE
- Ambulatory Health Care Center, Abu Dhabi UAE
- Pipe cast factory, Qatar
- Vip Lounge Safat Airport, Kuwait
- Al Gumrok Hotel, Qatar
- Orchid Hotel, Abu Dhabi UAE



Centro sportivo



Villa Serra di Comago (GE)

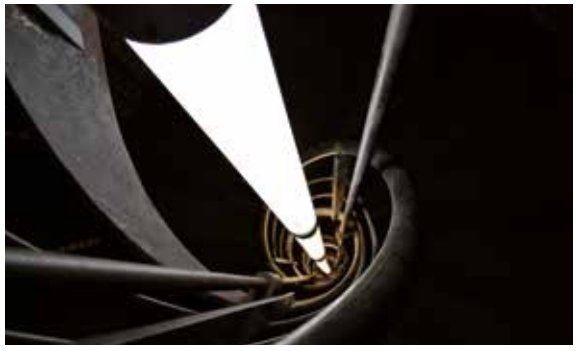
CASE HISTORY



Waterford Theatre Royale, Ireland



ASK



Torre Dei Balivi Aosta



Homeplus



Ospedale Di Ginevra



Scuole



Fiera Milano City



Rho Fiera "Milano"

CASE HISTORY



Abitare In " MIlano"



Abitare In " MIlano"



GRUPPO RAINA
L'unione fa la luce.

STREET LIGHTS



A
001





ELLP

ELLP [XS-M-XL]



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	
RG 0 EN 62471	10 Kv				09 GREY SANDBLASTED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM	

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Adjustable pole fixing system 0°-90° (pole head diameter 60 mm) adjustable from 0° to 20° for pole top installations. LED light source. Direct light emissione. Integrated device for active control of the LED temperature through NTC.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Sistema di fissaggio a palo regolabile 0°-90° (testa palo diametro 60 mm) orientabile da 0° a 20° per installazioni cima palo. Sorgente luminosa LED. Emissione diretta. Dispositivo integrato per il controllo attivo della temperatura dei LED tramite NTC.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord mât orientable de 0° à 90° pour fixation sur la crosse, et de 0° à 20° pour fixation en sommet de mât. (mâts : 60 mm de diamètre). Source lumineuse LED. Emission directe. Système intégré NTC pour contrôle automatique de la température.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm). Conector no incluido. Sistema de fijación de poste adjustable 0°-90° (60 mm de diámetro cabeza del poste) inclinable de 0° a 20° para instalación a columna. Fuente de luz LED. Emisión directa. Dispositivo integrado para el control activo de la temperatura de LED através de NTC.

DE

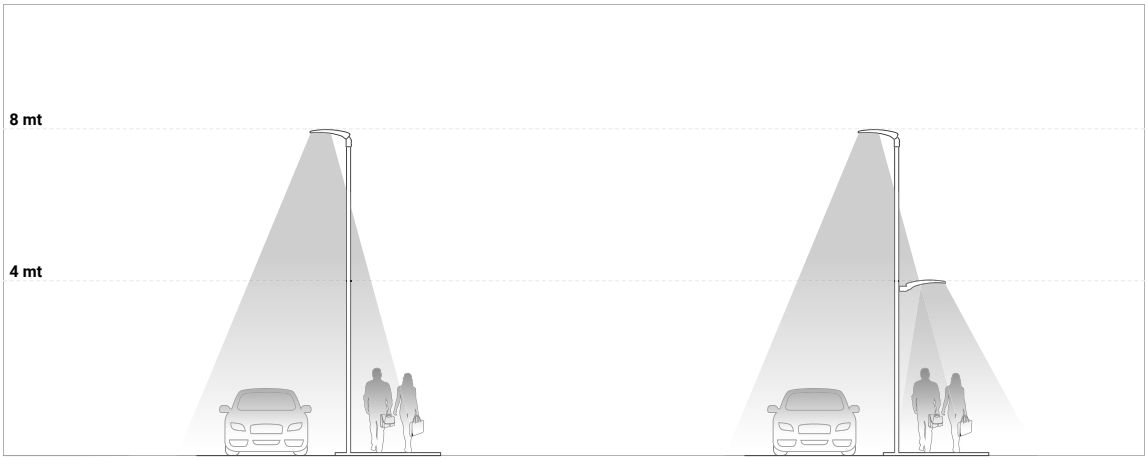
Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Einstellbares Polbefestigungssystem 0°-90° (Polkopfdurchmesser 60 mm), einstellbar von 0° bis 20° für Polkopfinstallationen. LED-Lichtquelle. Direkte Lichtemission. Integriertes Gerät zur aktiven Regelung der LED-Temperatur über NTC.

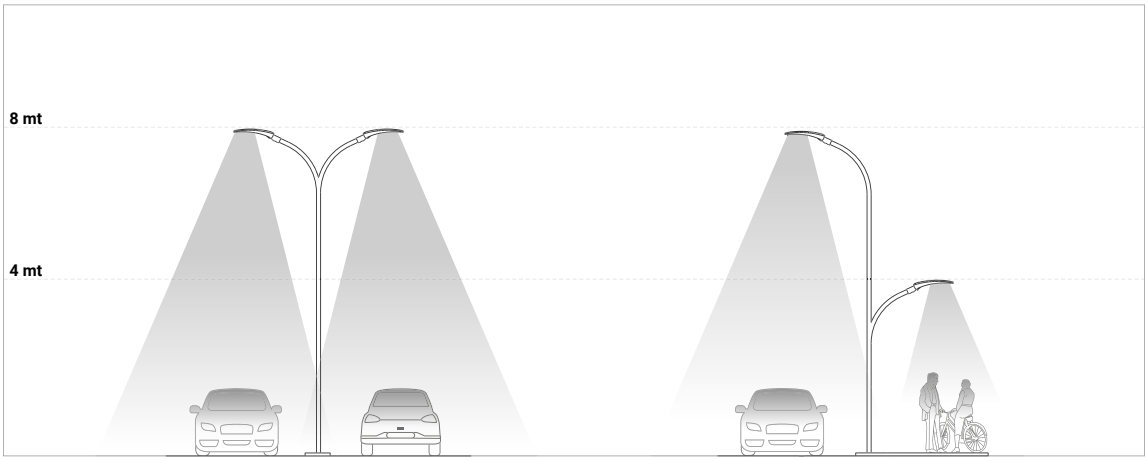
RU

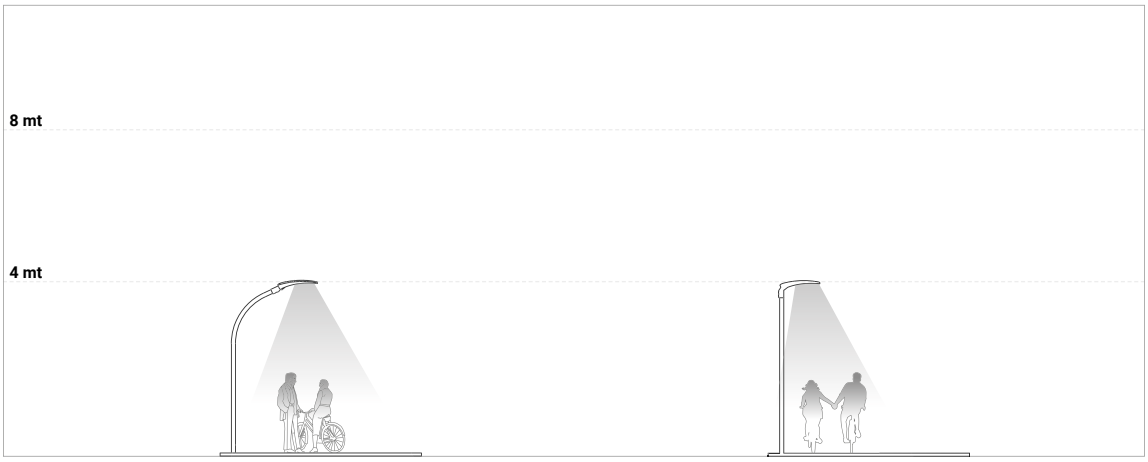
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Система для крепления на столбе с регулируемым углом наклона 0 ° - 90 ° (диаметр головки столба 60 мм), для монтажа от 0 ° до 20 ° . Светодиодный источник света. Прямой поток света. Интегрированное устройство для контроля температуры светодиодов через NTC.

Applications

ELLP [XS-M-XL]





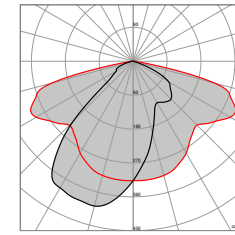


ELLP XS ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST1**ES/FP**09**	2673	2283	16	> 143	SAP50
ELPS2W/N**ST1**ES/FP**09**	3885	3318	24,5	> 135	SAP70
ELPS3W/N**ST1**ES/FP**09**	4941	4220	33	> 128	JM70
ELPS12W/N**ST1**ES/FP**09**	6032	5151	43	> 120	SAP100
ELPS5W/N**ST1**ES/FP**09**	5346	4565	32	> 143	MBF125
ELPS6W/N**ST1**ES/FP**09**	7770	6636	49	> 135	MBF250
ELPS7W/N**ST1**ES/FP**09**	9882	8439	66	> 128	JM150
ELPS13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



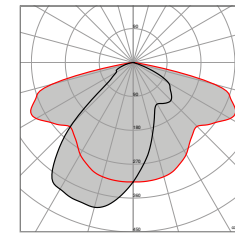
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST1**ES/FP**09**	5347	4566	32	> 143	MBF125
ELPM6W/N**ST1**ES/FP**09**	7770	6636	49,5	> 134	MBF250
ELPM7W/N**ST1**ES/FP**09**	9882	8439	66,5	> 127	JM150
ELPM8W/N**ST1**ES/FP**09**	13245	11311	97,5	> 116	JM250
ELPM13W/N**ST1**ES/FP**09**	8659	7395	56,5	> 131	MBF250
ELPM14W/N**ST1**ES/FP**09**	11619	9923	81,5	> 122	SAP150
ELPM9W/N**ST1**ES/FP**09**	8020	6849	48	> 143	JM150
ELPM10W/N**ST1**ES/FP**09**	11655	9953	74	> 135	SAP150
ELPM11W/N**ST1**ES/FP**09**	14820	12656	99,5	> 127	MBF400
ELPM15W/N**ST1**ES/FP**09**	8958	7650	54,5	> 140	MBF250
ELPM16W/N**ST1**ES/FP**09**	10477	8947	65,5	> 137	SAP150
ELPM17W/N**ST1**ES/FP**09**	17091	14596	119,5	> 122	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



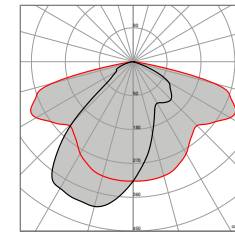
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST1**ES/FP**09**	15540	13271	98	> 135	MBF400
ELPL21W/N**ST1**ES/FP**09**	19764	16878	132	> 128	SAP250
ELPL22W/N**ST1**ES/FP**09**	24128	20605	172	> 120	JM400
ELPL24W/N**ST1**ES/FP**09**	29646	25318	207	> 122	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST1** ES/FP **09**

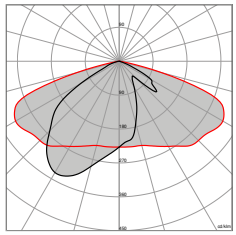
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**ST2**ES/FP**09**	2673	2403	16	> 150	SAP50
ELPS2W/N**ST2**ES/FP**09**	3885	3493	24,5	> 143	SAP70
ELPS3W/N**ST2**ES/FP**09**	4941	4442	33	> 135	JM70
ELPS12W/N**ST2**ES/FP**09**	6032	5423	43	> 126	SAP100
ELPS5W/N**ST2**ES/FP**09**	5346	4806	32	> 150	MBF125
ELPS6W/N**ST2**ES/FP**09**	7770	6985	49	> 143	MBF250
ELPS7W/N**ST2**ES/FP**09**	9882	8884	66	> 135	JM150
ELPS13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



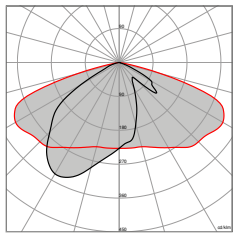
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**ST2**ES/FP**09**	5347	4807	32	> 150	MBF125
ELPM6W/N**ST2**ES/FP**09**	7770	6985	49,5	> 141	MBF250
ELPM7W/N**ST2**ES/FP**09**	9882	8884	66,5	> 134	JM150
ELPM8W/N**ST2**ES/FP**09**	13245	11907	97,5	> 122	JM250
ELPM13W/N**ST2**ES/FP**09**	8659	7784	56,5	> 138	MBF250
ELPM14W/N**ST2**ES/FP**09**	11619	10445	81,5	> 128	SAP150
ELPM9W/N**ST2**ES/FP**09**	8020	7210	48	> 150	JM150
ELPM10W/N**ST2**ES/FP**09**	11655	10478	74	> 142	SAP150
ELPM11W/N**ST2**ES/FP**09**	14820	13323	99,5	> 134	MBF400
ELPM15W/N**ST2**ES/FP**09**	8958	8053	54,5	> 148	MBF250
ELPM16W/N**ST2**ES/FP**09**	10477	9419	65,5	> 144	SAP150
ELPM17W/N**ST2**ES/FP**09**	17091	15365	119,5	> 129	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



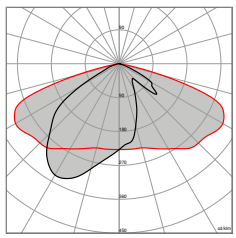
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**ST2**ES/FP**09**	15540	13970	98	> 143	MBF400
ELPL21W/N**ST2**ES/FP**09**	19764	17768	132	> 135	SAP250
ELPL22W/N**ST2**ES/FP**09**	24128	21691	172	> 126	JM400
ELPL24W/N**ST2**ES/FP**09**	29646	26652	207	> 129	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **ST2** ES/FP **09**

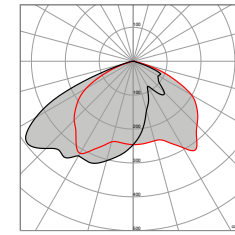
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**AS1**ES/FP**09**	2673	2227	16	> 139	SAP50
ELPS2W/N**AS1**ES/FP**09**	3885	3236	24,5	> 132	SAP70
ELPS3W/N**AS1**ES/FP**09**	4941	4116	33	> 125	JM70
ELPS12W/N**AS1**ES/FP**09**	6032	5025	43	> 117	SAP100
ELPS5W/N**AS1**ES/FP**09**	5346	4453	32	> 139	MBF125
ELPS6W/N**AS1**ES/FP**09**	7770	6472	49	> 132	MBF250
ELPS7W/N**AS1**ES/FP**09**	9882	8232	66	> 125	JM150
ELPS13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



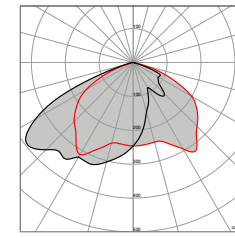
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**AS1**ES/FP**09**	5347	4454	32	> 139	MBF125
ELPM6W/N**AS1**ES/FP**09**	7770	6472	49,5	> 131	MBF250
ELPM7W/N**AS1**ES/FP**09**	9882	8232	66,5	> 124	JM150
ELPM8W/N**AS1**ES/FP**09**	13245	11033	97,5	> 113	JM250
ELPM13W/N**AS1**ES/FP**09**	8659	7213	56,5	> 128	MBF250
ELPM14W/N**AS1**ES/FP**09**	11619	9679	81,5	> 119	SAP150
ELPM9W/N**AS1**ES/FP**09**	8020	6681	48	> 139	JM150
ELPM10W/N**AS1**ES/FP**09**	11655	9709	74	> 131	SAP150
ELPM11W/N**AS1**ES/FP**09**	14820	12345	99,5	> 124	MBF400
ELPM15W/N**AS1**ES/FP**09**	8958	7462	54,5	> 137	MBF250
ELPM16W/N**AS1**ES/FP**09**	10477	8727	65,5	> 133	SAP150
ELPM17W/N**AS1**ES/FP**09**	17091	14237	119,5	> 119	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



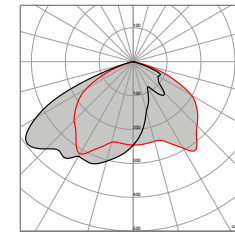
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**AS1**ES/FP**09**	15540	12945	98	> 132	MBF400
ELPL21W/N**AS1**ES/FP**09**	19764	16463	132	> 125	SAP250
ELPL22W/N**AS1**ES/FP**09**	24128	20099	172	> 117	JM400
ELPL24W/N**AS1**ES/FP**09**	29646	24695	207	> 119	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **AS1** ES/FP **09**

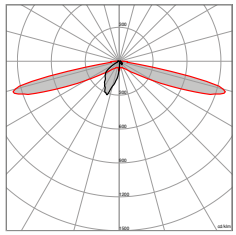
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

ELLP XS CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPS1W/N**CP**ES/FP**09**	2673	2387	16	> 149	SAP50
ELPS2W/N**CP**ES/FP**09**	3885	3469	24,5	> 142	SAP70
ELPS3W/N**CP**ES/FP**09**	4941	4412	33	> 134	JM70
ELPS12W/N**CP**ES/FP**09**	6032	5387	43	> 125	SAP100
ELPS5W/N**CP**ES/FP**09**	5346	4774	32	> 149	MBF125
ELPS6W/N**CP**ES/FP**09**	7770	6939	49	> 142	MBF250
ELPS7W/N**CP**ES/FP**09**	9882	8825	66	>134	JM150
ELPS13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



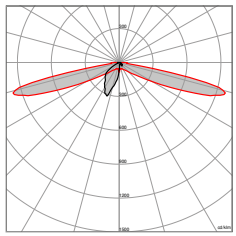
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP M CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPM5W/N**CP**ES/FP**09**	5347	4775	32	> 149	MBF125
ELPM6W/N**CP**ES/FP**09**	7770	6939	49,5	> 140	MBF250
ELPM7W/N**CP**ES/FP**09**	9882	8825	66,5	> 133	JM150
ELPM8W/N**CP**ES/FP**09**	13245	11828	97,5	> 121	JM250
ELPM13W/N**CP**ES/FP**09**	8659	7732	56,5	> 137	MBF250
ELPM14W/N**CP**ES/FP**09**	11619	10376	81,5	> 127	SAP150
ELPM9W/N**CP**ES/FP**09**	8020	7162	48	> 149	JM150
ELPM10W/N**CP**ES/FP**09**	11655	10408	74	> 141	SAP150
ELPM11W/N**CP**ES/FP**09**	14820	13234	99,5	> 133	MBF400
ELPM15W/N**CP**ES/FP**09**	8958	7999	54,5	> 147	MBF250
ELPM16W/N**CP**ES/FP**09**	10477	9356	65,5	> 143	SAP150
ELPM17W/N**CP**ES/FP**09**	17091	15262	119,5	> 128	SAP250

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



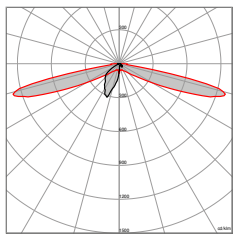
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ELLP XL CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ELPL20W/N**CP**ES/FP**09**	15540	13877	98	> 142	MBF400
ELPL21W/N**CP**ES/FP**09**	19764	17649	132	> 134	SAP250
ELPL22W/N**CP**ES/FP**09**	24128	21546	172	> 125	JM400
ELPL24W/N**CP**ES/FP**09**	29646	26474	207	> 128	SAP400

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **ELPS1** W/N **CP** ES/FP **09**

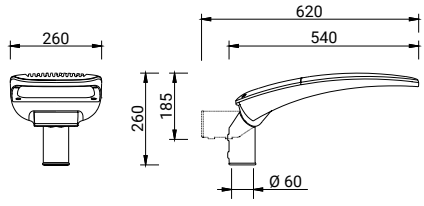
- Product colour: **09** Grey Sandblasted
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ELPS1**

A

ELLP [XS-M-XL]

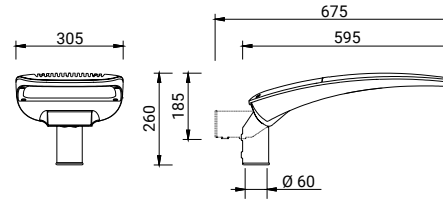
DIMENSIONAL

ELLP XS



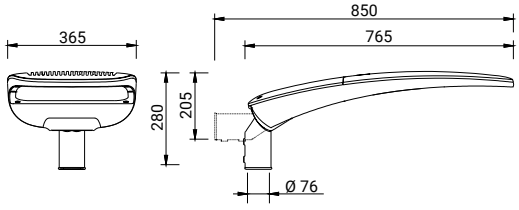
DIMENSIONAL

ELLP M



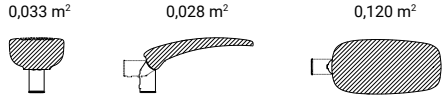
DIMENSIONAL

ELLP XL

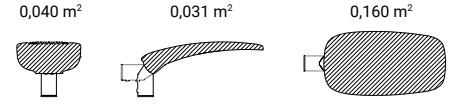


WIND RESISTANCE

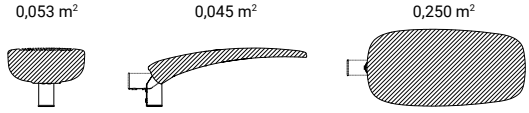
ELLP XS



ELLP M



ELLP XL



WEIGHT (Kg)

ELLP XS: **6,0**
ELLP M: **6,4**
ELLP XL: **8,0**

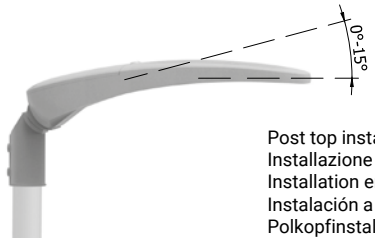
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ELLP XS - M - XL: **-20 ~ +45°C**

ELLP [XS-M-XL]

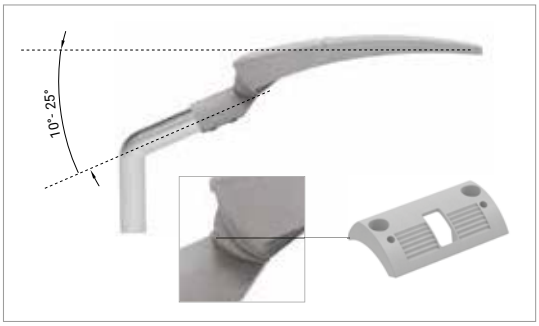
STANDARD FEATURES | INSTALLAZIONI STANDARD | CARACTÉRISTIQUES STANDARD | CARACTERÍSTICAS ESTÁNDAR STANDARD EINGESCHAFTEN | СТАНДАРТНЫЕ ФУНКЦИИ



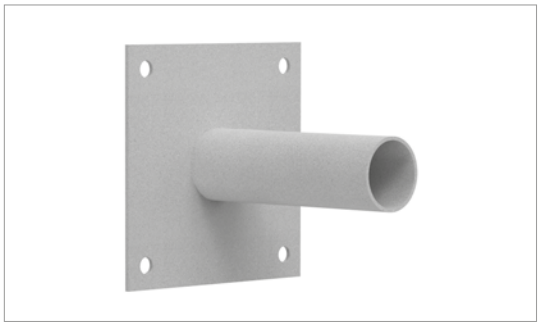


Post top installation
Installazione testa palo
Installation en tete de mat
Instalación a columna
Polkopfinstallation
Пост верхняя установка

ACCESSOIRES FOR SPECIAL INSTALLATIONS | ACCESSORI PER INSTALLAZIONI SPECIALI | ACCESSOIRES POUR INSTALLATIONS SPÉCIALES ACCESORIOS PARA INSTALACIONES ESPECIALES | ZUBEHÖRE FÜR SPEZIELLE INSTALLATIONEN ДЕТАЛИ ДЛЯ СПЕЦИАЛЬНЫХ УСТАНОВОК



KT6001
Adaptor for tilting (10° - 25°)
Adattatore per inclinazione (10° - 25°)
Adaptateur pour inclination (10° - 25°)
Adaptador para inclinación (10° - 25°)
Adapter für Neigung (10° - 25°)
Адаптер для наклона (10° - 25°)



KT6002
Support for wall mounting
Supporto staffaggio a parete
Support pour installation murale
Soporte fijación a pared
Wandhalterung
Настенный кронштейн



KT6003
Adaptor for pole (Ø 76 mm)
Adattatore per palo (Ø 76 mm)
Adaptateur pour mat (Ø 76 mm)
Adaptador de columna (Ø 76 mm)
Poladapter (Ø 76 mm)
Крепление для столба (Ø 76 mm)



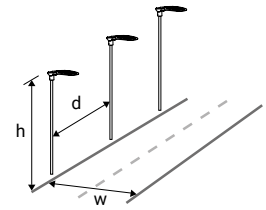
KT6005
2 poles quick plug-in kit for electrical connection
Kit connettori rapidi 2 poli per connessione elettrica
Kit de connexion rapide à 2 pôles pour le raccordement électrique
Kit de enchufes rápidos de 2 polos para conexión eléctrica
2-poliger Schnellsteckersatz für elektrischen Anschluss
2-полюсный комплект быстрых штекеров для электрического подключения

Beam applications

ELLP [XS-M-XL] - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm



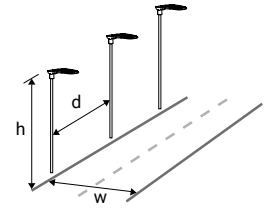
W= 8 m - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm

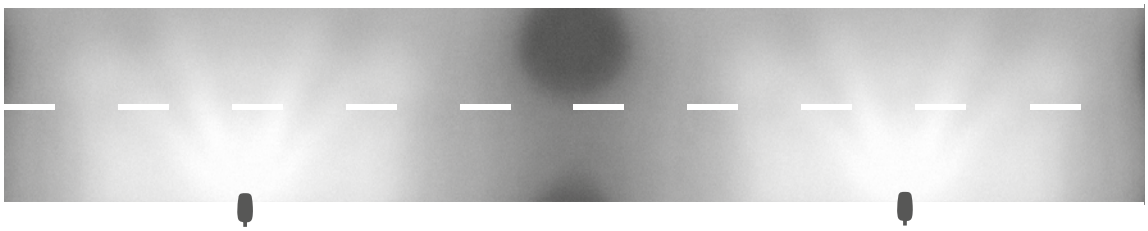


W= 8 m - H= 8m

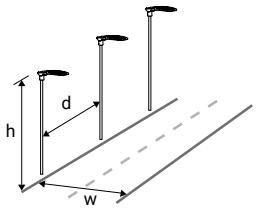
* Uniformity lengthwise not met

Beam applications

ELLP [XS-M-XL] - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm



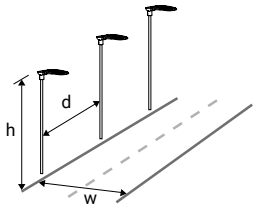
W= 10 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL] - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-



W= 8 **m** - H= 8m

* Uniformity lengthwise not met

ELLP [XS-M-XL]







KELPZS - Zagha socket
KELPNS - Nema socket

FP
PROGRAM

Only for full program - Solo per Full Programm - Seulement pour Full Programm - Solo para Full Programm - Nur für Full Programm - Только для полной программы.













BOX

BOX



		CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminium body painted with epoxy powders after phosphating. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio presso-piegato verniciato con polveri epossidiche previa fosfatazione. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium presse-plié, peinture à base de poudre époxyde et traitement de surface No-Rinse. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio plegado a presión y barnizado con polvos epoxidicos previa fosfatación. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

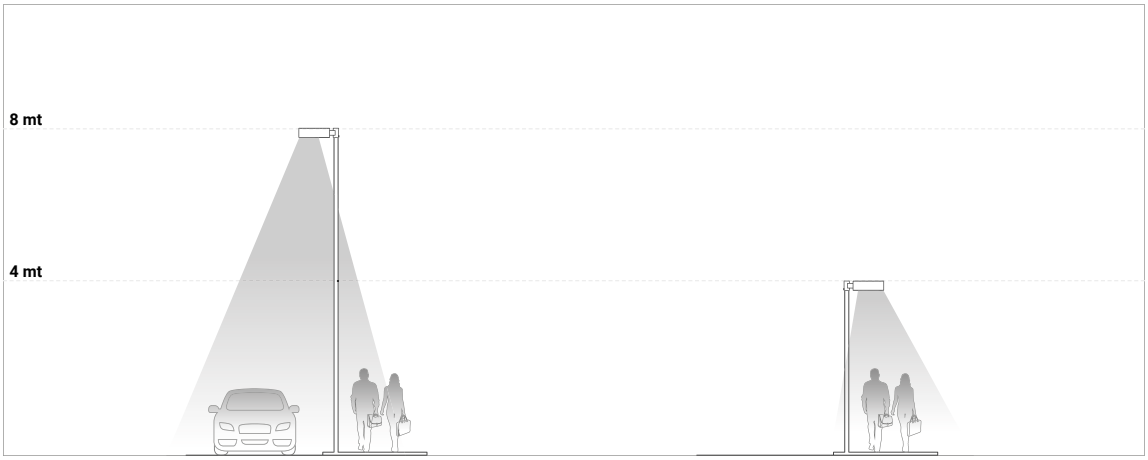
Körper aus Aluminiumdruckguss, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из литого под давлением фосфатированного алюминия, окрашенного эпоксидными порошками. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

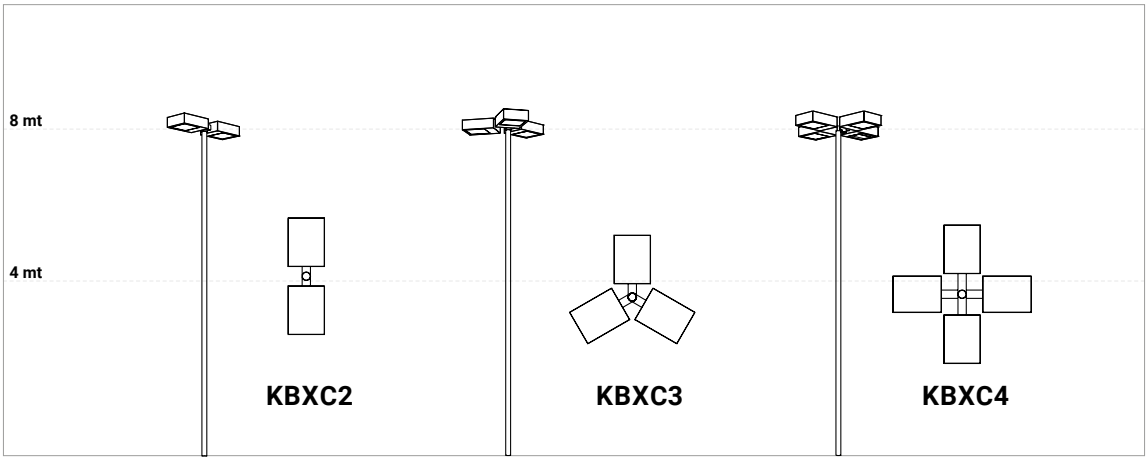
Applications

BOX



Special applications on request

BOX



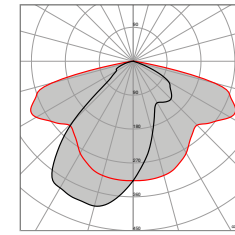


BOX ST1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

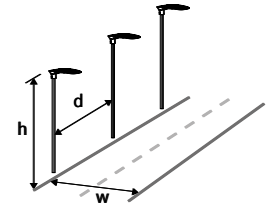
Applications

BOX - Optic ST1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	6400 lm	4800 lm	3200 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	5600 lm

* Uniformity lengthwise not met



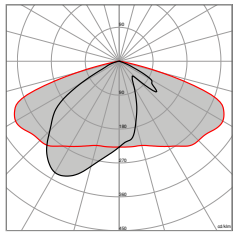
W= 8 **m** - H= 8m

BOX ST2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**ST2**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**ST2**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**ST2**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**ST2**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**ST2**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**ST2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **ST2** ES/FP **08**

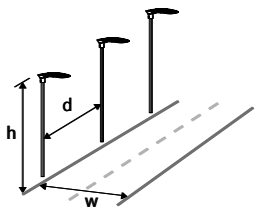
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

Applications

BOX - Optic ST2



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	13600 lm	10400 lm	7200 lm	5600 lm	4000 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	8200 lm	7200 lm	4800 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	-	-	5600 lm



W= 8 **m** - H= 8m

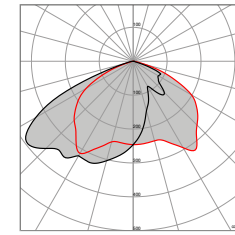
* Uniformity lengthwise not met

BOX AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

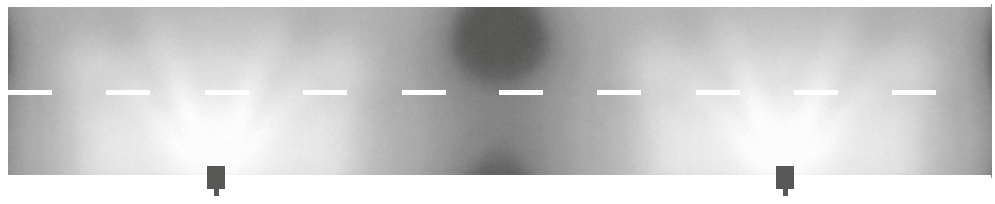
Code

Code Ordering example: **BX0803** W/N **AS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

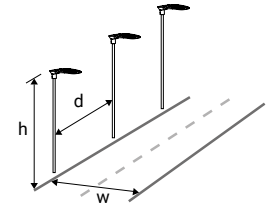
Applications

BOX - Optic AS1



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI[1]	UI[1]	8800 lm	6400 lm	4800 lm
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	UI[1]	UI[1]	10400 lm	8000 lm	5600 lm
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	6400 lm

* Uniformity lengthwise not met



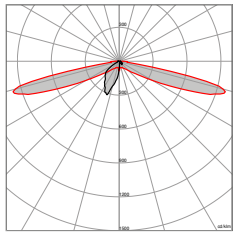
W= 8 m - H= 8m

BOX CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
BX0803W/N**CP**ES/FP**08**	2435	2240	15	> 150	SAP50
BX0804W/N**CP**ES/FP**08**	3575	3290	23	> 143	SAP70
BX0806W/N**CP**ES/FP**08**	5025	4620	35	> 133	JM70
BX1203W/N**CP**ES/FP**08**	4230	3890	26	> 147	MBF125
BX1206W/N**CP**ES/FP**08**	7535	6935	52	> 133	MBF150
BX1207W/N**CP**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **BX0803** W/N **CP** ES/FP **08**

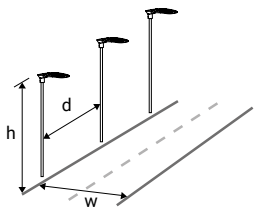
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **BX0803**

Applications

BOX - Optic CP



Road Class	M1	M2	M3	M4	M5
Pole distance (d)	24 m	24 m	24 m	24 m	24 m
Light output	UI*	UI*	-	-	-
Pole distance (d)	32 m	32 m	32 m	32 m	32 m
Light output	-	-	UI[1]	UI[1]	-
Pole distance (d)	40 m	40 m	40 m	40 m	40 m
Light output	-	-	UI[1]	UI[1]	-



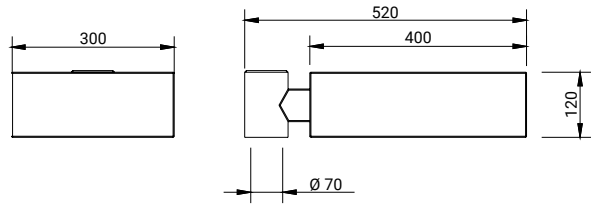
W= 8 m - H= 8m

* Uniformity lengthwise not met

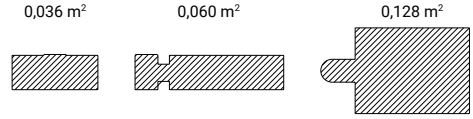
A

BOX

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,5	**-20 ~ +45°C**




COLOMBO
GRUPPO RAINA



GURU TECNO

GURU TECNO



	CE		>70 CRI	>80 CRI	AW AMBER (K)	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695
A++ A+ A	RG 0 EN 62471	6 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE	60.000 h LED LIFETIME L90B10			

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA optics with high optical efficiency. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Ottiche in PMMA stampato ad alto rendimento ottico. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Fuente de luz LED. Emisión directa.

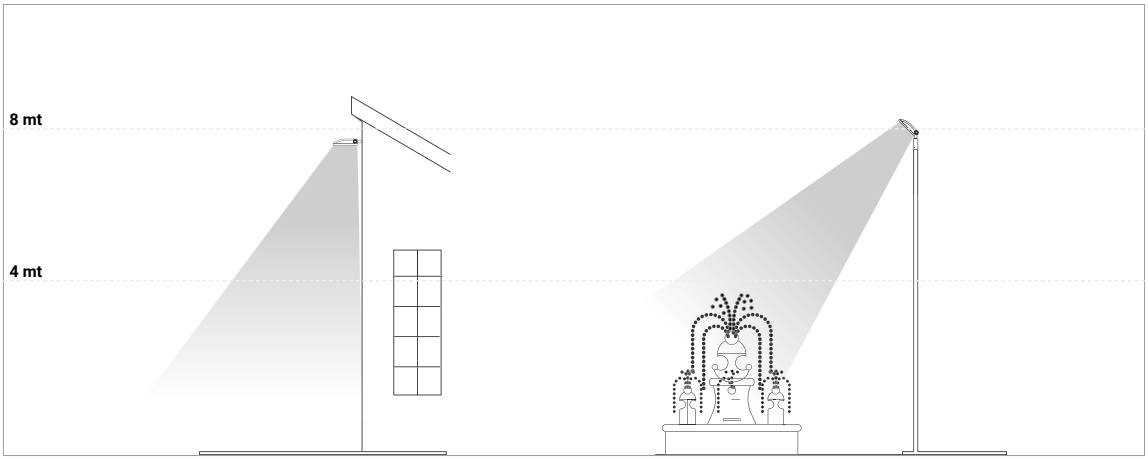
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. LED-Lichtquelle. Direkte Lichtemission.

RU

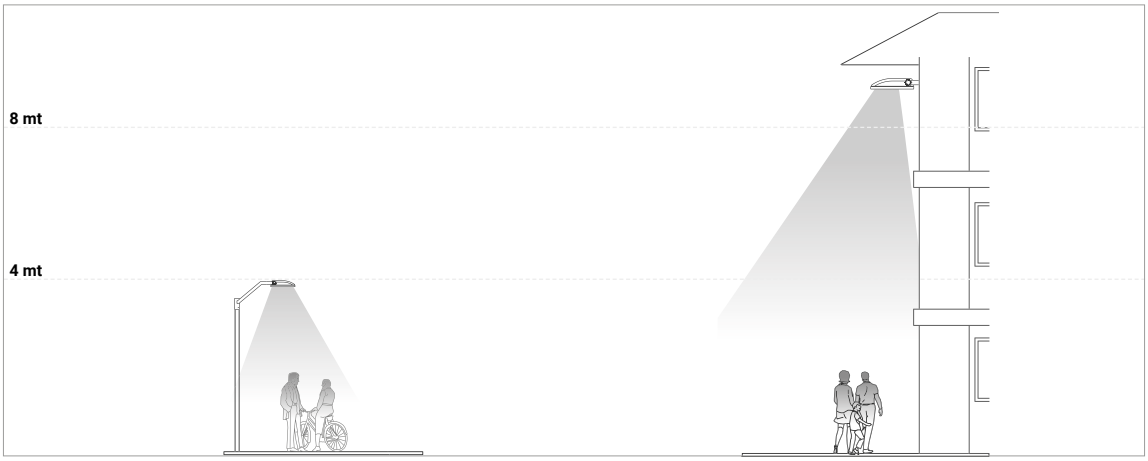
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Оптика из ПММА с высокой оптической эффективностью. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект Светодиодный источник света. Прямой поток света.

GURU TECNO



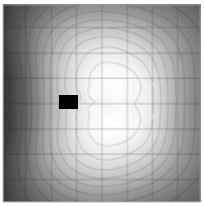
GURU TECNO [AS]

GURU TECNO [C]

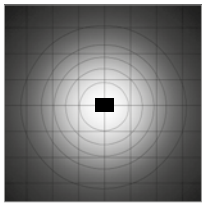


GURU TECNO [CP]

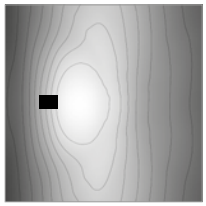
GURU TECNO [ST]



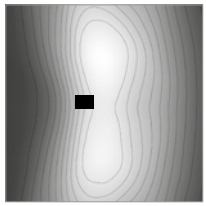
GURU TECNO [AS]



GURU TECNO [C]



GURU TECNO [CP]

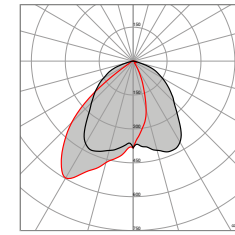


GURU TECNO [ST]

GURU TECNO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410ASN08	10250	8890	79	> 112	JM150
KGT732410ASW08	9750	8460	79	> 107	JM150
KGT832410ASN08	9160	7950	80,5	> 99	MBF250
KGT832410ASW08	8730	7575	80,5	> 94	MBF250
KGT32410ASAW08	7365	6390	80	> 80	SAP100
KGT732405ASN08	5540	4805	37	> 130	JM70
KGT732405ASW08	5240	4545	37	> 123	JM70
KGT832405ASN08	5013	4350	37	> 118	MBF125
KGT832405ASW08	4794	4160	37	> 112	MBF125
KGT32405ASAW08	3735	3240	37	> 87	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

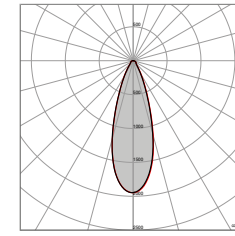
CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

GURU TECNO C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CN08	10250	8952	79	> 113	JM150
KGT732410CW08	9750	8105	79	> 102	JM150
KGT832410CN08	9160	7615	80,5	> 94	MBF250
KGT832410CW08	8730	7260	80,5	> 90	MBF250
KGT32410CAW08	7365	6125	80	> 76	SAP100
KGT732405CN08	5540	4605	37	> 124	JM70
KGT732405CW08	5240	4355	37	> 118	JM70
KGT832405CN08	5013	4170	37	> 113	MBF125
KGT832405CW08	4794	3985	37	> 108	MBF125
KGT32405CAW08	3735	3105	37	> 84	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

Code

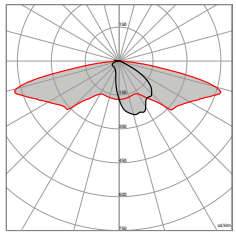
Code Ordering example: **KGT732410** **AS** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

GURU TECNO CP



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410CPN08	10250	8750	79	> 111	JM150
KGT732410CPW08	9750	8325	79	> 105	JM150
KGT832410CPN08	9160	7820	80,5	> 97	MBF250
KGT832410CPW08	8730	7455	80,5	> 93	MBF250
KGT32410CPAW08	7365	6290	80	> 79	SAP100
KGT732405CPN08	5540	4730	37	> 128	JM70
KGT732405CPW08	5240	4470	37	> 121	JM70
KGT832405CPN08	5013	4280	37	> 116	MBF125
KGT832405CPW08	4794	4095	37	> 111	MBF125
KGT32405CPAW08	3735	3190	37	> 86	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

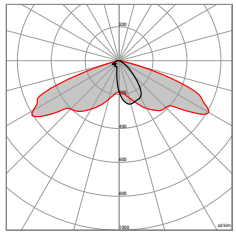
CRI >70= **KGT732405** - **KGT732410**

CRI >80= **KGT832405** - **KGT832410**

GURU TECNO ST



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGT732410STN08	10250	8050	79	> 102	JM150
KGT732410STW08	9750	7660	79	> 97	JM150
KGT832410STN08	9160	7195	80,5	> 89	MBF250
KGT832410STW08	8730	6860	80,5	> 85	MBF250
KGT32410STAW08	7365	5785	80	> 72	SAP100
KGT732405STN08	5540	4355	37	> 118	JM70
KGT732405STW08	5240	4115	37	> 111	JM70
KGT832405STN08	5013	3940	37	> 106	MBF125
KGT832405STW08	4794	3765	37	> 102	MBF125
KGT32405STAW08	3735	2935	37	> 79	SAP70



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

W (3000 K) | **N** (4000 K) | **AW** (AMBER)

CRI >70= **KGT732405** - **KGT732410**

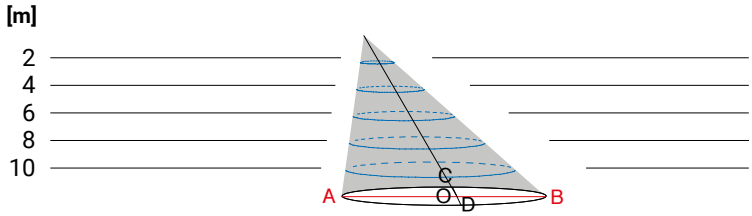
CRI >80= **KGT832405** - **KGT832410**

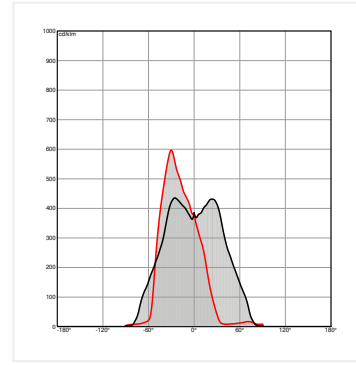
Code

Code Ordering example: **KGT732410** **CP** **N** **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K - **AW** AMBER
- Optic type
- Product Code: **KGT732410**

AS [OPTIC]

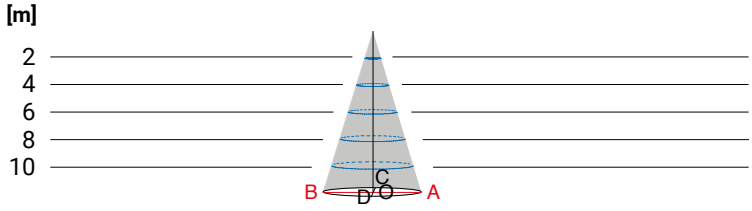


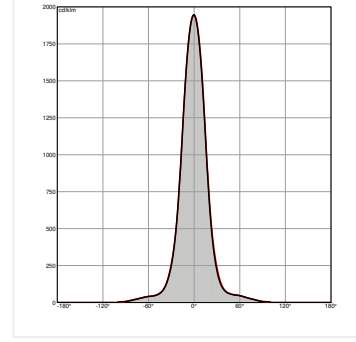


	KGT732410ASN		KGT732410ASW		KGT832410ASN		KGT832410ASW		KGT32410ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	975	495	930	470	870	445	830	420	700	355
4	245	125	235	120	220	110	210	105	175	90
6	110	55	105	52	100	50	95	47	80	40
8	61	55	60	30	55	30	55	25	45	22
10	40	20	37	19	35	18	35	17	30	15

	KGT732405ASN		KGT732405ASW		KGT832405ASN		KGT832405ASW		KGT32405ASAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	530	270	500	255	475	242	455	230	355	180
4	135	70	125	65	120	60	115	58	90	45
6	60	30	55	28	53	27	51	26	40	20
8	33	17	31	16	30	15	28	14	22	11
10	21	11	20	10	19	10	18	9	14	7

C [OPTIC]

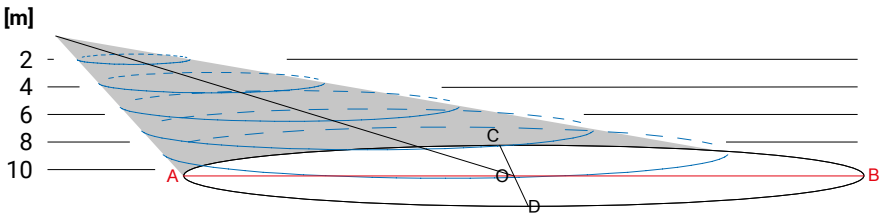


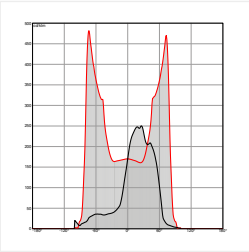


	KGT732410CN		KGT732410CW		KGT832410CN		KGT832410CW		KGT32410CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	4150	2540	3950	1420	3710	2270	3540	2170	2985	1825
4	1040	640	990	605	930	570	885	540	750	460
6	465	285	440	270	415	255	400	240	335	205
8	260	160	250	150	235	145	225	135	190	115
10	166	105	160	100	150	95	140	90	120	73

	KGT732405CN		KGT732405CW		KGT832405CN		KGT832405CW		KGT32405CAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	2245	1375	2125	1300	2035	1245	1940	1185	1520	930
4	565	345	530	325	510	310	485	300	380	235
6	250	155	240	145	230	140	220	135	170	105
8	140	90	135	85	130	80	120	75	95	60
10	90	55	85	55	80	50	78	47	60	40

CP [OPTIC]

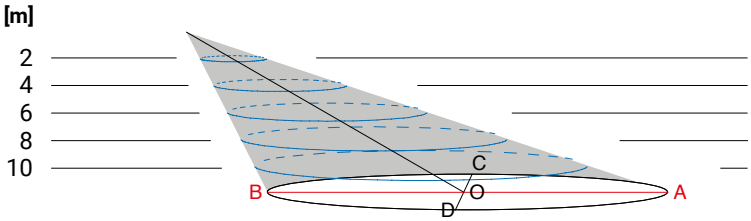


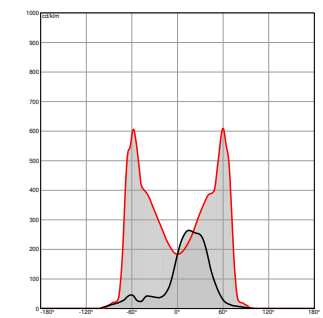


	KGT732410CPN		KGT732410CPW		KGT832410CPN		KGT832410CPW		KGT32410CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	375	35	355	35	335	31	320	30	270	25
4	95	10	90	9	85	8	80	7	70	6
6	45	5	40	5	37	3	35	3	30	3
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

	KGT732405CPN		KGT732405CPW		KGT832405CPN		KGT832405CPW		KGT32405CPAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	200	20	190	18	182	17	174	16	135	13
4	50	5	47	4	45	4	43	4	34	3
6	22	2	21	2	20	2	19	2	-	-
8	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-

ST [OPTIC]



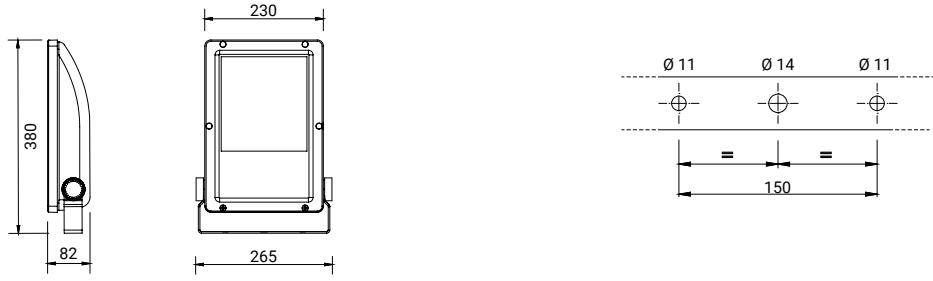


	KGT732410STN		KGT732410STW		KGT832410STN		KGT832410STW		KGT32410STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	500	125	480	120	450	110	430	105	360	88
4	125	31	120	30	115	27	110	26	90	22
6	60	15	55	13	50	12	47	12	40	10
8	31	8	30	7	28	7	27	7	22	5
10	20	5	19	5	18	4	17	4	14	4

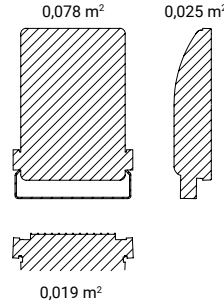
	KGT732405STN		KGT732405STW		KGT832405STN		KGT832405STW		KGT32405STAW	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	270	66	260	62	245	60	234	57	185	45
4	70	17	65	16	60	15	59	14	46	11
6	30	7	30	7	27	7	26	6	20	5
8	17	4	16	4	15	4	15	4	-	-
10	-	-	-	-	-	-	-	-	-	-

GURU TECNO

DIMENSIONAL + FIXTING



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**

Accessoires



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)





BROWNIE

BROWNIE



>80 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 09 EN 60068 | 850° EN 60695 | A++ A+ A | RG 0 EN 62471

6 Kv | 08 BLACK METALLIZED | 5Y WARRANTY 5% FAILURE RATE | 60.000 h LED LIFETIME L90B10 | ES ON/OFF

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head Brownie 0 and D - 76 mm, diameter Brownie T and R). LED light source. Direct light emissione.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Installazione fissa cima palo (testa palo diametro 60 mm Brownie O e D - diametro 76 Brownie T e R). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre pour Brownie O e D - 76 mm de diamètre pour Brownie T er R). Source lumineuse LED. Emission directe.

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste Brownie O y D - 76 mm de diámetro Brownie T y R). Fuente de luz LED. Emisión directa.

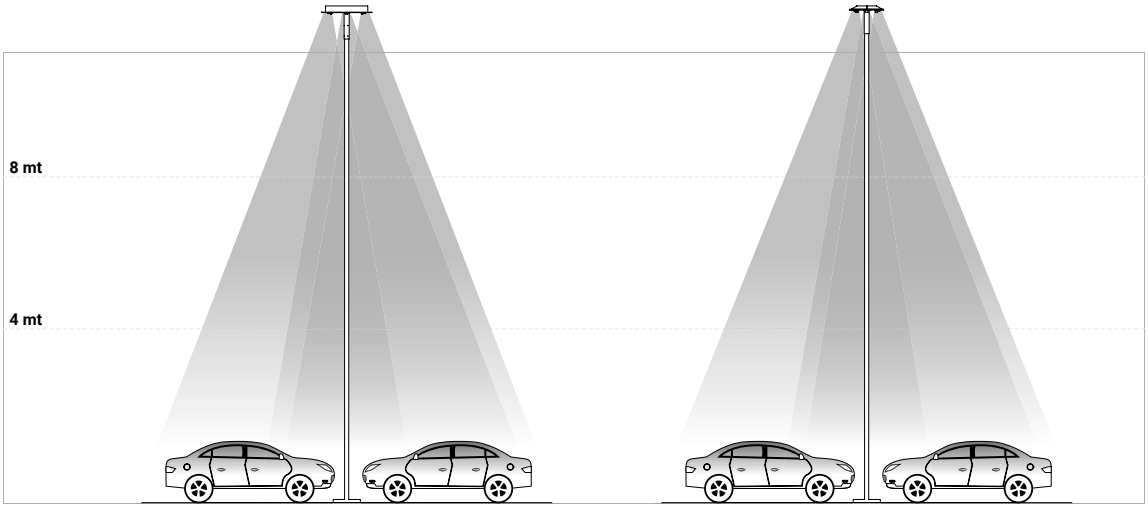
DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm Brownie O und D - durchmesser 76 mm Brownie T und R). LED-Lichtquelle. Direkte Lichtemission.

RU

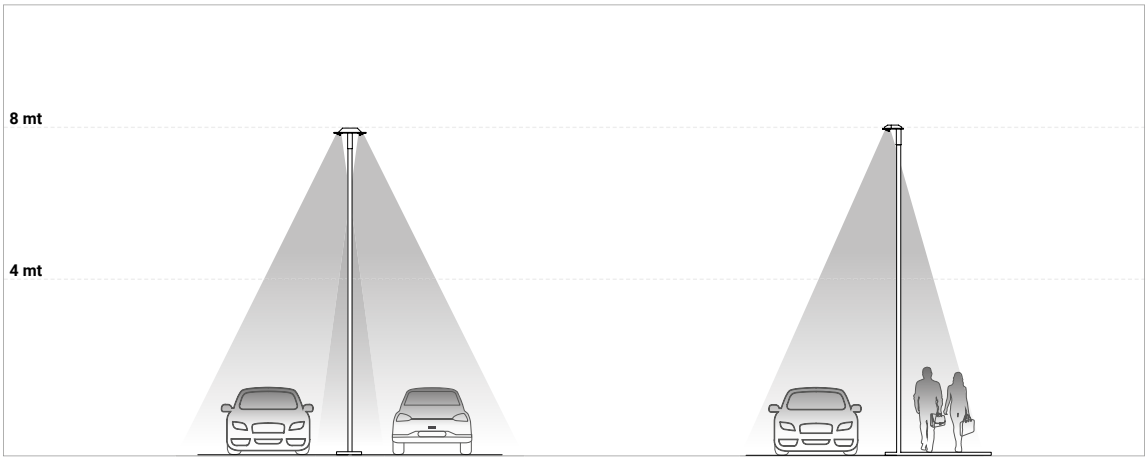
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

BROWNIE



BROWNIE T

BROWNIE R



BROWNIE D

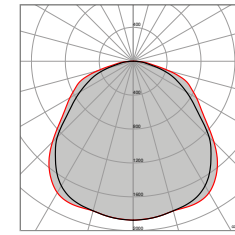
BROWNIE O

BROWNIE R



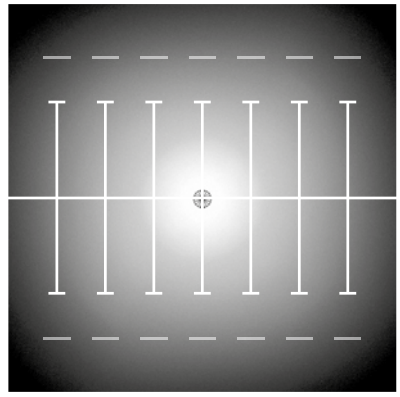
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWR46009W/N**08**	30400	24312	201	> 121	4xSAP100
KBRWR46014W/N**08**	45520	36413	323	> 113	4xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

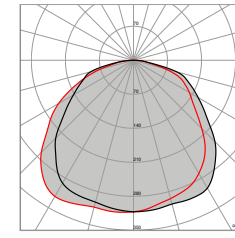


BROWNIE T



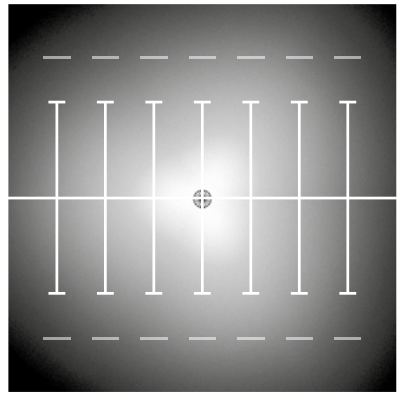
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWT36009W/N**08**	22800	18235	151	> 121	3xSAP100
KBRWT36014W/N**08**	34140	27310	242,5	> 113	3xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

Code Ordering example: **KBRWR46009** W/N **08**

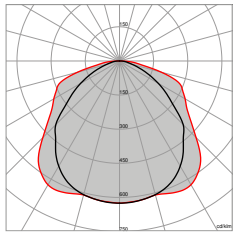
- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWR46009**: Product Code: **KBRWR46009**

BROWNIE D



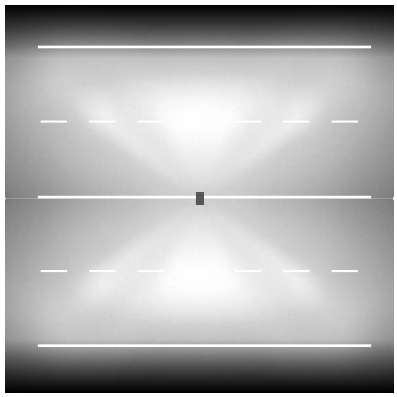
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWD26009W/N**08**	15200	12156	100,5	> 121	2xSAP100
KBRWD26014W/N**08**	24300	18160	160,5	> 113	2xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications

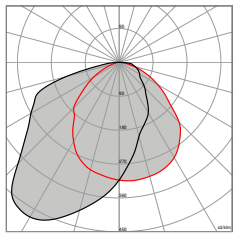


BROWNIE O



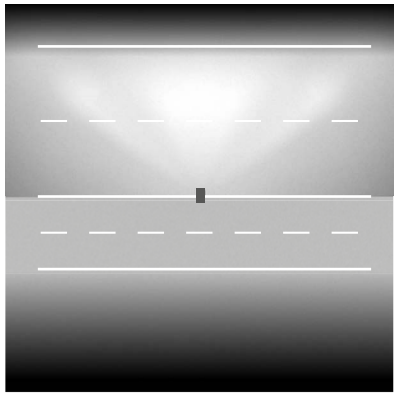
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KBRWO16009W/N**08**	7600	6078	50	> 122	1xSAP100
KBRWO16014W/N**08**	12150	9080	80,5	> 113	1xSAP150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Applications



Code

Code Ordering example: **KBRWD26009** W/N **08**

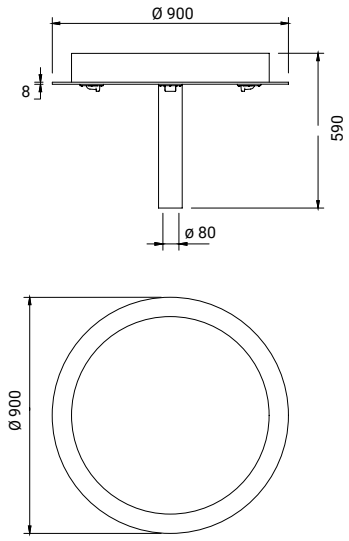
- **08**: Product colour: **08** Black Metalizzed
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **KBRWD26009**: Product Code: **KBRWD26009**

A

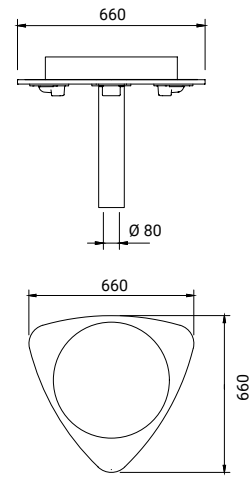
BROWNIE R-T

DIMENSIONAL

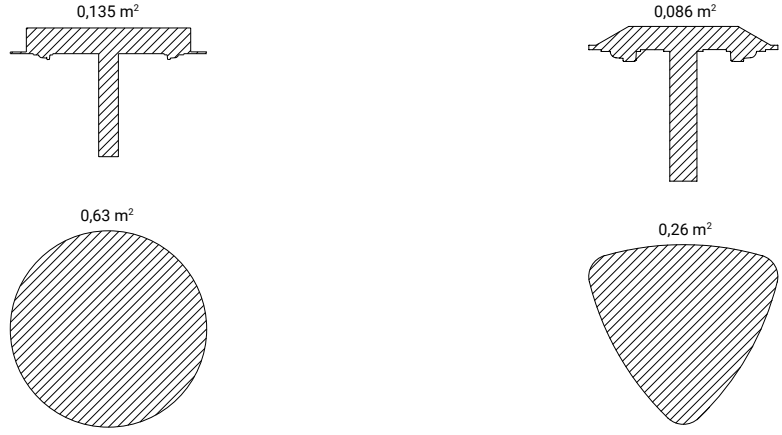
BROWNIE R



BROWNIE T



WIND RESISTANCE



WEIGHT (Kg)

BROWNIE R: **22,0** - BROWNIE T: **16,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE R - T: **-20 ~ +45°C**

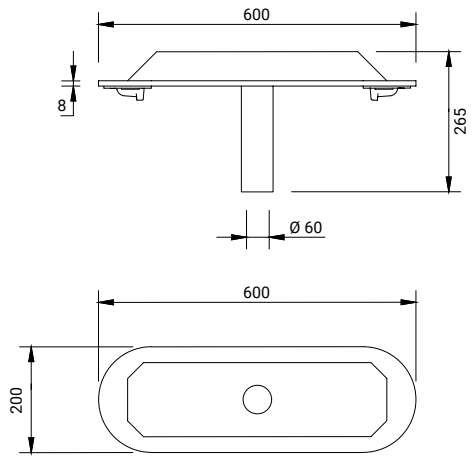
ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

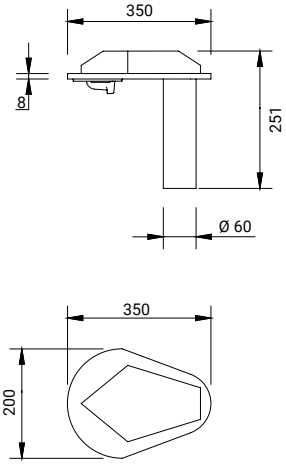
BROWNIE D-O

DIMENSIONAL

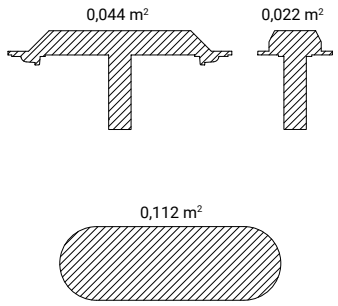
BROWNIE D

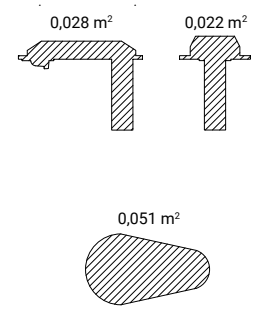


BROWNIE O



WIND RESISTANCE





WEIGHT (Kg)

BROWNIE D: **11,0** - BROWNIE O: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

BROWNIE D - O: **-20 ~ +45°C**

ON REQUEST

Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность





ZODIAC

ZODIAC



>70 CRI | W 3000 K | N 4000 K | IP65 EN 60529 | 230 V 2014/35/UE | 50/60 Hz | IK 08 EN 60068 | 850° EN 60695 | A++ A+ A

RG 0 EN 62471 | 10 Kv | 08 BLACK METALLIZED | NTC TEMPERATURE CONTROL | 5Y WARRANTY 5% FAILURE RATE | 100.000 h LED LIFETIME L90B10 | ES ON/OFF | FP PROGRAM

On request

EN

Shaped aluminum body, by sheet turning, painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Complete with outgoing cable L40 (cm), connector not included. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio sagomato, mediante tornitura in lastra, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, mis en forme par la méthode du filage , peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio conformado, mediante torneado en la chapa, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Con cable de salida L=40 (cm), conector no incluido. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

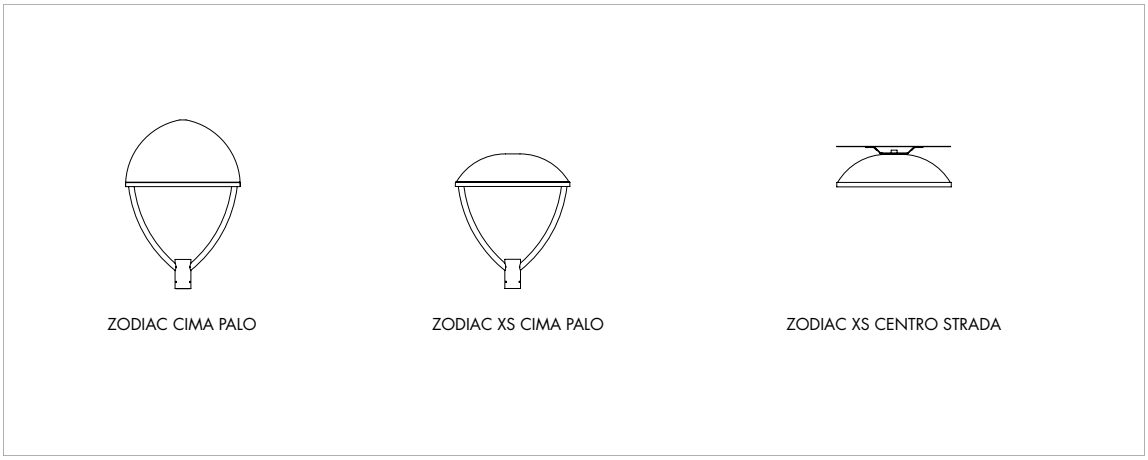
Körper aus geformtem Aluminium, durch Drehen der Platte, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

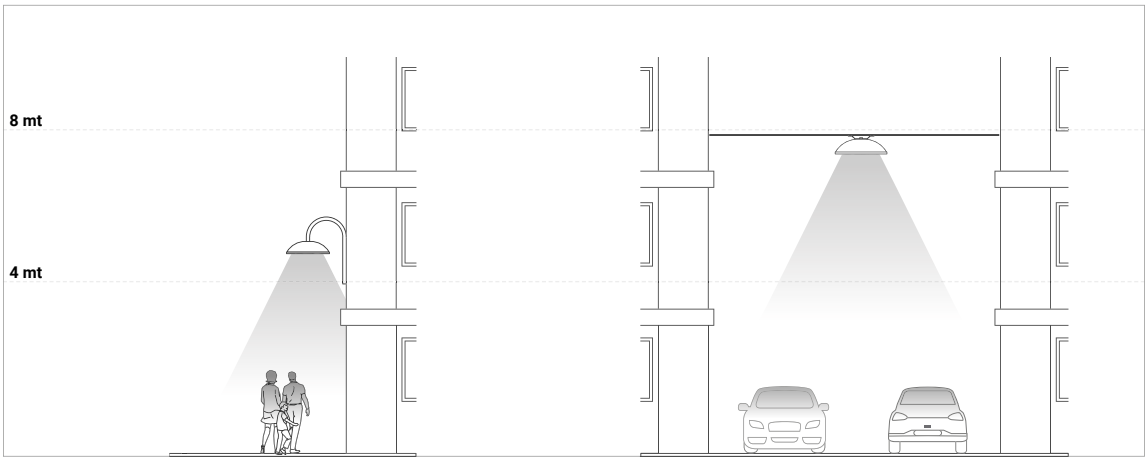
Корпус из формированного алюминия, методом точения из листового материала, окрашеного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

A

ZODIAC


ZODIAC CIMA PALO
ZODIAC XS CIMA PALO
ZODIAC XS CENTRO STRADA


8 mt
4 mt

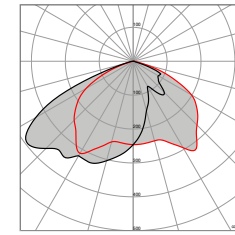

8 mt
4 mt

ZODIAC CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



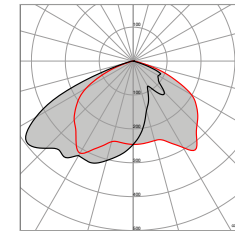
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

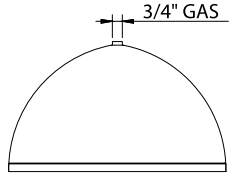
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

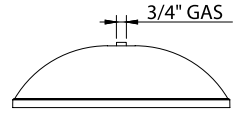
Code

Code Ordering example: **ZDC0803** W/N **AS1** ES/FP **08**

- **08**: Product colour: **08** Black Metalizzed
- ES/FP: Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- AS1: Optic type
- W/N: Colour Temperature: **W** 3000 K - **N** 4000 K
- **ZDC0803**: Product Code: **ZDC0803**

On request



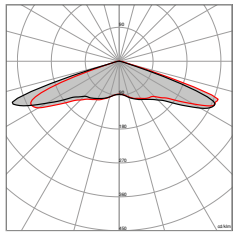


ZODIAC CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDC0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDC0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDC0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDC1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDC1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDC1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



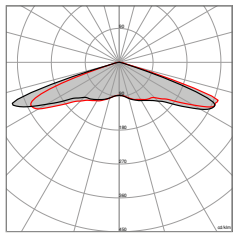
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CIMA PALO RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXS0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXS0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXS0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXS1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXS1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXS1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

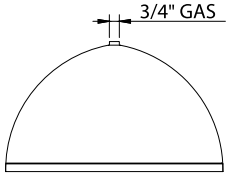
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

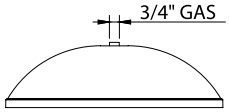
Code

Code Ordering example: **ZDC0803** W/N **RS2** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDC0803**

On request



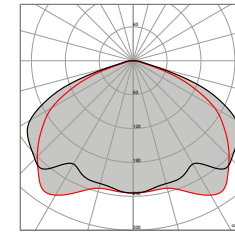


ZODIAC XS CS 1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS1**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS1**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS1**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS1**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS1**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



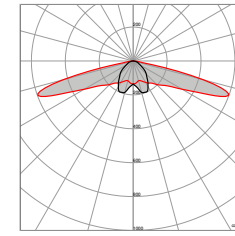
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ZODIAC XS CS 2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
ZDCXCS0803W/N**CS2**ES/FP**08**	2435	2240	15	> 150	SAP50
ZDCXCS0804W/N**CS2**ES/FP**08**	3575	3290	23	> 143	SAP70
ZDCXCS0806W/N**CS2**ES/FP**08**	5025	4620	35	> 133	JM70
ZDCXCS1203W/N**CS2**ES/FP**08**	4230	3890	26	> 147	MBF125
ZDCXCS1206W/N**CS2**ES/FP**08**	7535	6935	52	> 133	MBF150
ZDCXCS1207W/N**CS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

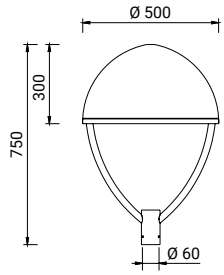
Code Ordering example: ZDCXCS0803 W/N **CS1** ES/FP **08**

- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **ZDCXCS0803**

ZODIAC

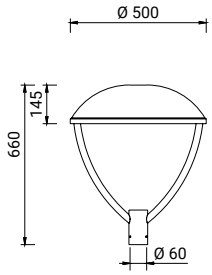
DIMENSIONAL

ZODIAC CIMA PALO



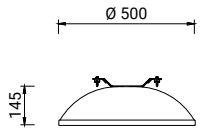
DIMENSIONAL

ZODIAX XS CIMA PALO



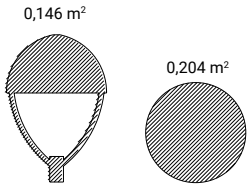
DIMENSIONAL

ZODIAC XS CENTRO STRADA

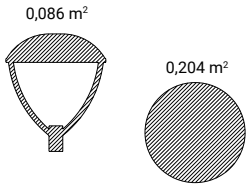


WIND RESISTANCE

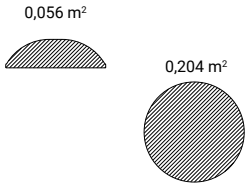
ZODIAC CIMA PALO



ZODIAC XS CIMA PALO



ZODIAC XS CENTRO STRADA



WEIGHT (Kg)

ZODIAC CIMA PALO: **7,5**
ZODIAC CIMA PALO XS: **6,5**
ZODIAC XS CENTRO STRADA: **5,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ZODIAC CIMA PALO - ZODIAC CIMA PALO XS
ZODIAC XS CENTRO STRADA :

-20 ~ +45°C





MARKUS

MARKUS XL



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
6 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		ES ON/OFF			

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Complete with outgoing cable L40 (cm), connector not included. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido Difusor de policarbonado opal. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XL



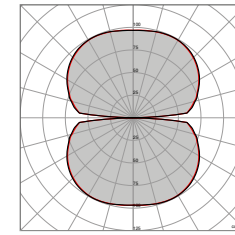


MARKUS XL A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLA1W/N**08**	6000	3150	47	> 67
KMRLA2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



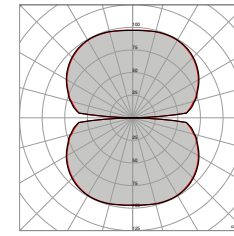
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLB1W/N**08**	6000	3150	47	> 67
KMRLB2W/N**08**	12000	6300	94	> 67

W/N= **W** (3000 K) | **N** (4000 K)



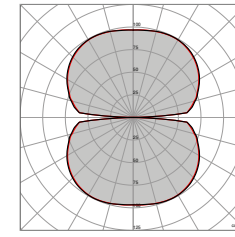
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRLC1W/N**08**	9000	4725	70,5	> 67
KMRLC2W/N**08**	18000	9450	141	> 67

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

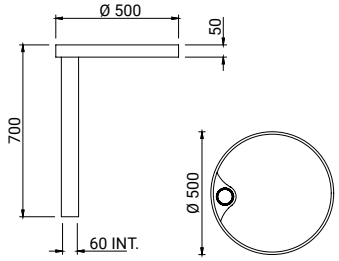
Code Ordering example: **KMRLA1** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMRLA1**

MARKUS XL

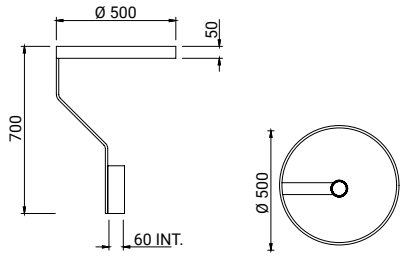
DIMENSIONAL

MARKUS XL A



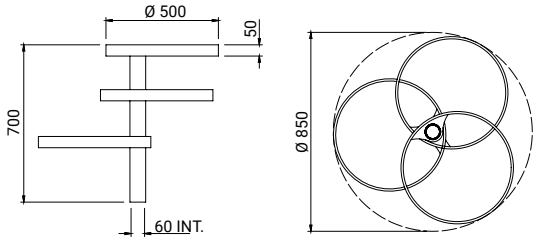
DIMENSIONAL

MARKUS XL B



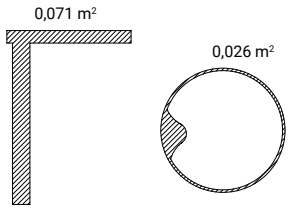
DIMENSIONAL

MARKUS XL C

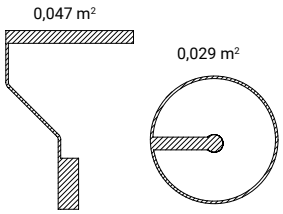


WIND RESISTANCE

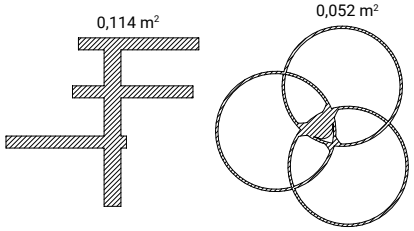
MARKUS XL A



MARKUS XL B



MARKUS XL C



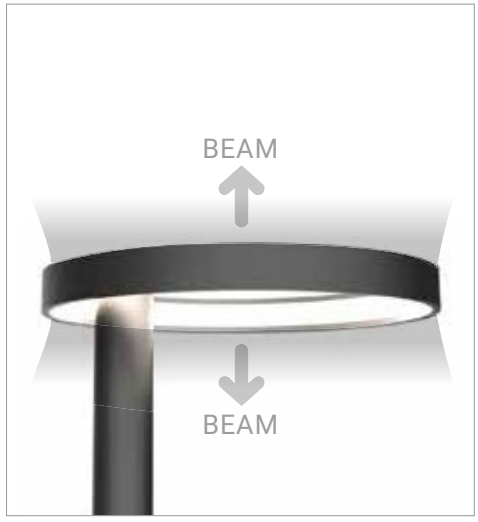
WEIGHT (Kg)

MARKUS XL A: **5,0**
MARKUS XL B: **5,5**
MARKUS XL C: **6,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

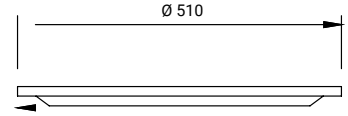
MARKUS XL A - B - C: **-20 ~ +45°C**

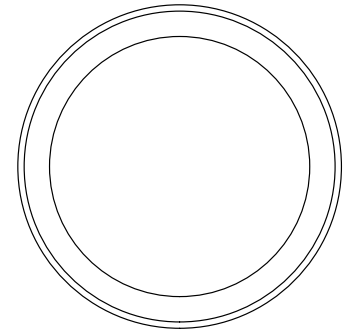
MARKUS XL



MARKUS XL “standard version”







KTMK500

KTMK500

Anti-pollution reflector - Riflettore per antinquinamento luminoso - Réflecteur anti-pollution - Reflector anti-contaminación - Anti-Verschmutzungsreflektor - Отражатель от загрязнения.







MALED

MALED



		CE		>70 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 08 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	10 Kv				08 BLACK METALLIZED	NTC TEMPERATURE CONTROL	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM

On request

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Complete with outgoing cable L40 (cm), connector not included. Transparent tempered glass cover resistant to thermal shocks. Molded PMMA street optics with high optical efficiency. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci progettati per ottenere una ridotta superficie d'esposizione al vento.Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Fornito completo di cavo uscente L40 (cm), connettore non incluso. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Fourni avec câble en sortie pour branchement L=40 (cm), connecteur no inclus. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Con cable de salida L=40 (cm), conector no incluido. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

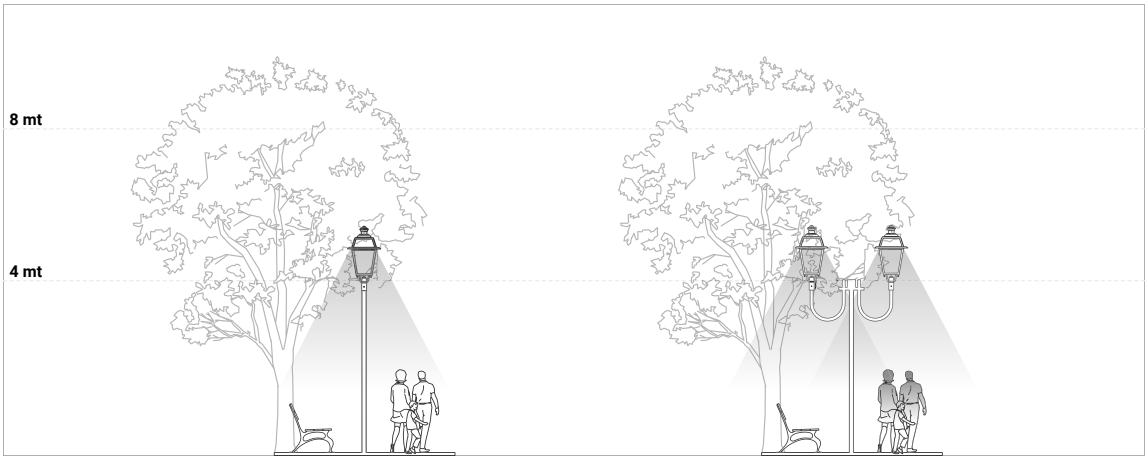
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Entworfener Körper und Arme für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. Komplett mit abgehendem Kabel L40 (cm), nicht enthalten. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Поставляется в комплекте с исходящим кабелем длиной 40 см. разъем не входит. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Несъёмная установка на столбе (диаметр головки столба 60 мм). Светодиодный источник света. Прямой поток света.

MALED



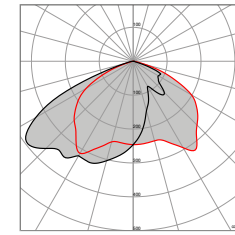


MALED AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



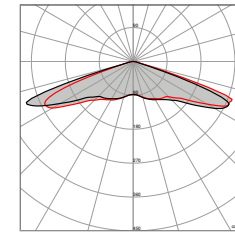
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MALED RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
MAL0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
MAL0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
MAL0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
MAL1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
MAL1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
MAL1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Full Program: functionalities available on request

FP PROGRAM

AD PROGRAM | VM5 PROGRAM | ALC PROGRAM | LS PROGRAM | CLO PROGRAM | FVL PROGRAM | AST PROGRAM

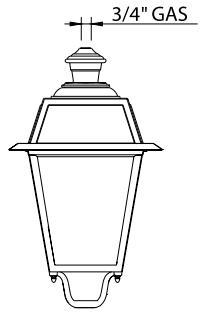
If not specified in the order, the product (FP) will be supplied in standard DALI version.
For any further information see at page 66-67.

Code

Code Ordering example: **MAL0803** W/N **AS1** ES/FP **08**

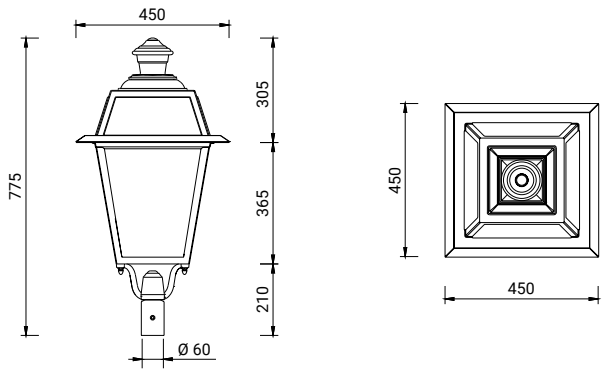
- Product colour: **08** Black Metalizzed
- Driver Options: **ES** Standard - **FP** Full Programm (DALI Standard)
- Optic type
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **MAL0803**

On request

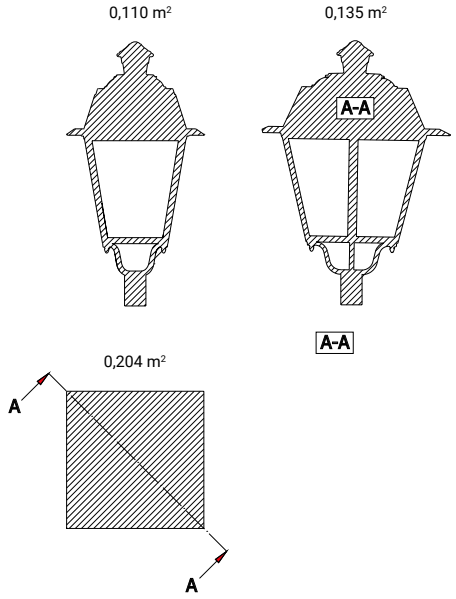


MALED

DIMENSIONAL



WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
8,0	**-20 ~ +45°C**

Functionalities available on request

FP PROGRAM

A

DALI PROGRAM

EN

DALI DIMM
Dimmable with DALI protocol.

IT

DALI DIMM
Dimmerabile con protocollo DALI

FR

DALI DIMM
Pilotage intelligent gradation (dimming) protocole DALI.

ES

DALI DIMM
Regulable con protocolo DALI.

DE

DALI DIMM
Dimmbar mit DALI-Protokoll.

RU

DALI DIMM
Регулируемая мощность DALI.

AD PROGRAM

EN

TRACKING VOLTAGE
Dimmable by changing the supply voltage; admissible voltage range: 170V-250V.

IT

INSEGUITORE TENSIONE DI INPUT POWER
Dimmerabile variando la tensione di alimentazione; intervallo di tensioni ammesse: 170V-250V.

FR

RÉGULATEUR DE TENSION
variable suivant le voltage ; intervalle compris entre 170V / 250V.

ES

SEGUIDOR DE TENSIONES
Regulable cambiando la tensión de alimentación; rango de voltaje admisible: 170V-250V.

DE

TRACKING VOLTAGE
Dimmbar durch Änderung der Versorgungsspannung; zulässiger Spannungsbereich: 170V-250V.

RU

ТРЕКЕР НАПРЯЖЕНИЯ
Регулируемый путем изменения напряжения питания; допустимый диапазон напряжения: 170 - 250 V.

VM5 PROGRAM

EN

VIRTUAL MIDNIGHT - (5 STEP)
Possibility to program the luminaires so that they automatically recognize the solar midnight setting light dimming levels (up to 5 levels).

IT

MEZZANOTTE VIRTUALE - (5 STEP)
Possibilità di programmare gli apparecchi in modo che riconoscano automaticamente la mezzanotte solare impostando così livelli di dimmerazione della luce (5 livelli) al fine di ridurre gli sprechi durante le ore notturne garantendo comunque un livello minimo di illuminazione di sicurezza.

FR

MINUIT VIRTUEL (5 niveaux)
Possibilité de programmer les appareils de façon à reconnaître automatiquement minuit solaire réglant ainsi des niveaux de gradation de lumière (jusqu'à 5 niveaux).

ES

MEDIANOCHE VIRTUAL (5 NIVELES)
Posibilidad de programar las luminarias regulando el flujo de luz para el ahorro energetico (hasta 5 niveles).

DE

VIRTUELLE MITTERNACHT - (5 SCHRITTE)
Möglichkeit, die Leuchten so zu programmieren, so daß sie die mitternachtssolaren Helligkeitsstufen (bis zu 5 Stufen) automatisch erkennen.

RU

ВИРТУАЛЬНАЯ ПОЛНОЧЬ (5 шагов)
Возможность запрограммировать светильники так, чтобы они автоматически распознавали виртуальную полночь, настраивая таким образом установки уровня яркости света (до 5 уровней).

LS PROGRAM

EN

LINE SWITCH
Two function levels can be selected by wiring only one additional cable with one control phase. By switching the phase "ON" the fitting works at 100% of the allowed power, by switching it "OFF" the fitting works at the default power.

IT

FASI DI COMANDO
Possibilità di definire due livelli di funzionamento che possono essere selezionati cablando un solo cavo aggiuntivo con una fase di comando; con fase aggiuntiva ON l'apparecchio funziona al 100% della potenza permessa, con fase aggiuntiva OFF l'apparecchio si setta sul valore pre-impostato.

FR

GRADATION A COUPURE DE PHASE
Possibilité de définir 2 niveaux de gradation par coupure de phase pilotée par DALI en câblant un seul câble supplémentaire avec une phase de commande ; avec la phase supplémentaire ON l'appareil fonctionne à 100% de la puissance permise, avec la phase supplémentaire OFF l'appareil se règle sur la valeur programmée.

ES

FASE DE MANDO
Posibilidad de definir dos niveles operativos que se pueden seleccionar al cablear un solo cable adicional con una fase de comando; con la fase adicional ENCENDIDO (ON), la luminaria funciona al 100% de la potencia permitida, y con la fase adicional DESACTIVADA (OFF), la luminaria se establece en el valor preestablecido.

DE

BEFEHLSPHASE
Möglichkeit der Definition von zwei Betriebsebenen, die durch Verdrahtung eines zusätzlichen Kabels mit einer Befehlsphase ausgewählt werden können; Wenn die zusätzliche Phase eingeschaltet ist, wird das Gerät mit 100% der zulässigen Leistung betrieben. Wenn die zusätzliche Phase ausgeschaltet ist, wird das Gerät auf den voreingestellten Wert eingestellt.

RU

КОМАНДНАЯ ФАЗА
Возможность определения двух рабочих уровней, которые можно выбрать, подключив один дополнительный кабель с командной фазой; при включенной дополнительной фазе (ON) прибор работает на 100% разрешенной мощности, при выключенной дополнительной фазе (OFF) прибор устанавливается на предварительно установленное значение.

Functionalities available on request

FP PROGRAM

CLO PROGRAM

EN

CONSTANT LUMEN OUT
Due to its own characteristics the LED chip have long life expectations compared to conventional lamps. However they gradually reduce the quantity of the light output during aging until they completely finish their lifetime. In particular working conditions it is possible to use this function in order to guarantee a constant light output by increasing the current drive of the chip LED.Consequently there will be a higher consumptions and the illumination values of the interested area will not change over the time. EASY PROG. version works with the linear increase.

IT

ILLUMINAMENTO COSTANTE
I chip led per loro natura hanno aspettative di vita elevate rispetto ad una lampada convenzionale; durante l'invecchiamento però tendono ad esaurire gradualmente la quantità di luce emessa fino ad esaurirsi a termine della loro vita; in particolari condizioni d'impiego è possibile utilizzare questa funzione al fine di garantire un'emissione luminosa costante nel tempo incrementando la corrente di pilotaggio del chip LED. Ciò vuol dire che si avrà un incremento dei consumi ma è possibile garantire che i valori di illuminamento dell'area interessata non avranno variazioni nel tempo. Versione EASY PROG. Funzionante con incremento lineare.

FR

ILLUMINATION CONSTANTE
Le led par nature a une durée de vie plus élevée en le comparant à une ampoule traditionnelle ; Cependant durant sa vie la quantité de lumière émise tend à baisser graduellement jusqu'à s'éteindre à la fin de son cycle de vie ; dans des conditions particulières d'installations il est possible d'utiliser cette fonction pour garantir une émission lumineuse constante à travers le temps en augmentant le courant pilote du circuit du led. Ceci signifie que l'on aura une consommation majeure mais il est possible de garantir les valeurs des flux lumineux de la zone intéressée sans subir de variations dans le temps.

ES

ILUMINACIÓN CONSTANTE
Los diodos de LED por su naturaleza tienen una alta expectativa de vida en comparación con una lámpara convencional; durante el envejecimiento, sin embargo, tienden a agotar gradualmente la cantidad de luz emitida hasta que se agotan al final de su vida; En condiciones particulares de uso, es posible utilizar esta función a fin de garantizar una emisión de luz constante a lo largo del tiempo, aumentando la corriente de conducción del diodo LED. Esto significa que habrá un aumento del consumo, pero es posible garantizar que los valores de iluminación del espacio en cuestión no sufra variación con el tiempo;

DE

KONSTANTE BELEUCHTUNG
LED-Chips haben von Natur aus eine hohe Lebenserwartung im Vergleich zu einer herkömmlichen Lampe; während des Alterns neigen sie jedoch dazu, die emittierte Lichtmenge allmählich zu verbrauchen, bis sie am Ende ihres Lebens verbraucht sind. Unter bestimmten Einsatzbedingungen ist es möglich, diese Funktion zu nutzen, um eine konstante Lichtemission über die Zeit zu gewährleisten und den Ansteuerstrom des LED-Chips zu erhöhen. Dies bedeutet, dass der Verbrauch zunehmen wird, es kann jedoch gewährleistet werden, dass sich die Beleuchtungswerte des betreffenden Gebiets im Laufe der Zeit nicht ändern.

RU

ПОСТОЯННОЕ ОСВЕЩЕНИЕ
Светодиодные чипы по своей природе имеют большую продолжительность жизни по сравнению с обычной лампой; однако во время старения они имеют тенденцию постепенно снижать эффективность излучаемового света до их полного истощения; в определенных условиях использования можно использовать эту функцию, чтобы гарантировать постоянное излучение света с течением времени, увеличивая ток возбуждения светодиодного чипа. Это означает, что будет увеличение потребления электроенергии, но также можно гарантировать, что уровень освещенности соответствующей области не изменится со временем.

FVL PROGRAM

EN

END OF LED LIFE
The LED module will still be functioning after the guaranteed working hours however the light output will be lower than the entered values. The FVL function works by the activation of a counter, which will make the luminaire blinking for the first seconds after the switch on after reaching the limit of working operation.

IT

FINE VITA LED
Al superamento delle ore di funzionamento garantite, il modulo led continuerà a funzionare ma l'emissione luminosa sarà inferiore rispetto ai valori previsti. Con questa funzione è possibile attivare un contatore che, raggiunto il limite di ore di funzionamento, farà lampeggiare l'apparecchio di illuminazione per i primi secondi di funzionamento all'accensione.

FR

FIN DE VIE DU LED
Au-delà des heures de fonctionnement garanties, le module led continue à fonctionner mais l'émission lumineuse sera inférieure comparée aux valeurs initiales. Grâce à cette fonction il est possible d'activer un compteur qui, une fois la limite d'heures de fonctionnement atteinte, fera clignoter l'appareil d'illumination pendant quelques secondes au moment d'allumer.

ES

FINAL DE VIDA ÚTIL DEL LED
Cuando se exceden las horas de funcionamiento garantizadas, el módulo LED continuará funcionando pero la emisión de luz será inferior a los valores previstos. Con esta función es posible activar un contador que, una vez alcanzado el límite de horas de funcionamiento, hará que el dispositivo de iluminación parpadee durante los primeros segundos del encendido.

DE

LED LEBENSENDE
Wenn die garantierten Betriebsstunden überschritten werden, arbeitet das LED-Modul weiter, aber die Lichtleistung liegt unter den erwarteten Werten. Mit dieser Funktion ist es möglich, einen Zähler zu aktivieren, der bei Erreichen der Betriebsstundenzahl das Leuchten beim Einschalten für die ersten Sekunden des Betriebs zum Blinken bringt.

RU

Конец светодиодной жизни
После превышения гарантированных рабочих часов, светодиодный модуль продолжит работу, но светоотдача будет ниже ожидаемых параметров. С помощью этой функции можно активировать счетчик, который, при достижении предела рабочих часов заставит осветительный прибор мигать в течение первых секунд работы при включении питания.

AST PROGRAM

EN

ADJUSTABLE START UP TIME
This function allows to obtain a gradual start of the light fitting in a time between 1 and 30 seconds.

IT

REGOLAZIONE PERIODO DI ACCENSIONE
Questa funzione consente di ottenere un'accensione graduale del proiettore con un tempo compreso tra 1 e 30 secondi.

FR

RÉGLAGE PÉRIODE D'ALLUMAGE
Cette fonction permet d'obtenir un allumage graduel du projecteur dans un intervalle compris entre 1 et 30 secondes.

ES

REGULACIÓN DEL TIEMPO DE ENCENDIDO
Esta función permite un encendido gradual del proyector en un tiempo de entre 1 y 30 segundos.

DE

EINSTELLZEIT DER ZÜNDUNG
Diese Funktion ermöglicht ein schrittweises Einschalten des Projektors mit einer Zeit zwischen 1 und 30 Sekunden.

RU

РЕГУЛИРОВКА ВРЕМЕНИ ВКЛЮЧЕНИЯ
Эта функция позволяет включать светильник постепенно, с интервалом временем от 1 до 30 секунд.





Kit RETROFIT





		CE		>80 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 06 EN 60068	850° EN 60695	A++ A+ A
RG 0 EN 62471	6 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		100.000 h LED LIFETIME L90B10		ES ON/OFF	FP PROGRAM	

On request

EN

Universal optic group for energy efficiency of existing street furniture. Steel sheet support painted with epoxy powders after phosphating. Extruded anodized aluminum body with heat-sink function. Molded PMMA street optics with high optical efficiency. LED light source. Direct light emission.

IT

Gruppo ottico universale per l'efficientamento energetico di lampioni ornamentali esistenti. Supporto in lamiera d'acciaio verniciato con polveri epossidiche previa fosfarazione. Corpo in alluminio estruso anodizzato con funzione di dissipatore. Ottiche stradali in PMMA stampato ad alto rendimento ottico. Sorgente luminosa LED. Emissione diretta.

FR

Unité optique universelle pour l'efficacité énergétique des lampadaires ornementaux existans. Support en tole d'aceir, peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Optiques routières en PMMA à haute résistance aux températures et haut rendement optique. Source lumineuse LED Emission directe.

ES

Grupo óptico universal para el efficientamento energético del alumbrado publico existente. Soporte de chapa de acero barnizada con polvo epoxi previamente fosfatado. Cuerpo en aluminio extruido anodizado con función de disipador. Óptica vial en metracrilato (PMMA) estampado de alta eficiencia óptica. Fuente de luz LED. Emisión directa

DE

Universale optische Gruppe fur die Energieeffizienz bestehender dekorativer StraSSenlaternen. Trager aus Stahlblech, das nach der Phosphatierung mit Epoxidpulvern beschichtet wurde. Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Straßenoptik aus gegossenem PMMA mit hoher optischer Effizienz. LED-Lichtquelle. Direkte Lichtemission.

RU

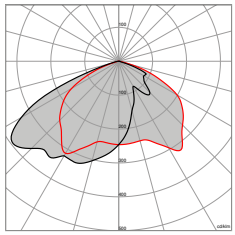
Универсальный оптический блок для энергоэффективности существующих декоративных уличных фонарей. Опора из стального листа, окрашенного эпоксидными красками-порошками после фосфатирования. Анодированный экструдированный алюминиевый корпус с функцией радиатора. Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

KIT RETROFIT AS1



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**AS1**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**AS1**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**AS1**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**AS1**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**AS1**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**AS1**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI



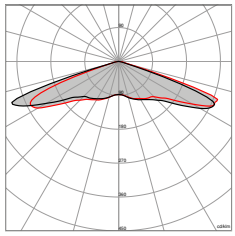
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

KIT RETROFIT RS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KRT0803W/N**RS2**ES/FP**08**	2435	2240	15	> 150	SAP50
KRT0804W/N**RS2**ES/FP**08**	3575	3290	23	> 143	SAP70
KRT0806W/N**RS2**ES/FP**08**	5025	4620	35	> 133	JM70
KRT1203W/N**RS2**ES/FP**08**	4230	3890	26	> 147	MBF125
KRT1206W/N**RS2**ES/FP**08**	7535	6935	52	> 133	MBF150
KRT1207W/N**RS2**ES/FP**08**	8060	7415	57	> 131	JM150

W/N= **W** (3000 K) | **N** (4000 K) ES/FP= **ES** ON/OFF | **FP** DALI

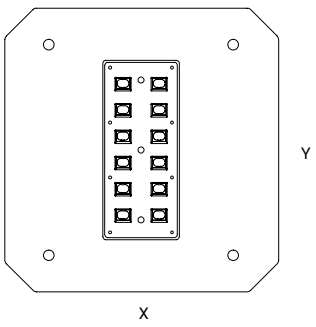


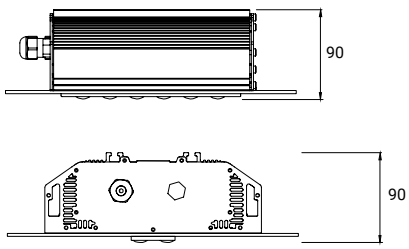
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Mechanical Features

KIT RETROFIT

DIMENSIONAL





X - Y (info):
Customizable shape, size and performance
Sagoma, dimensioni e prestazioni personalizzabili
Forme, taille et performance personal sables
Forma, dimensiones y presanciones personalizadas
Anpassbare Form, Große und Leistung
Настраиваемая форма, размер и производительность

WEIGHT (Kg)

4,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C



GRUPPO RAINA
L'unione fa la luce.

BOLLARD



B
073

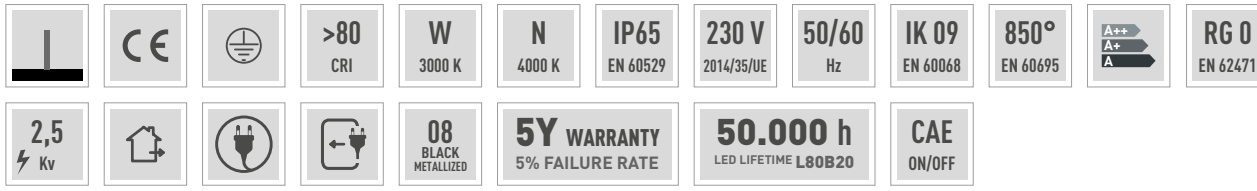

GRUPPO RAINA
L'unione fa la luce



CALIPSO

CALIPSO





EN

Extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe.

ES

Cuerpo de aluminio extruido. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

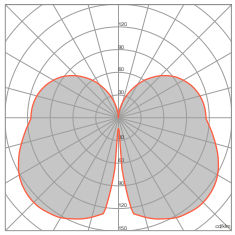
Корпус из экструдированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CALIPSO



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCL06W/N**08**	3000	1550	24	> 63	600 mm
KCL09W/N**08**	4500	2250	36	> 63	900 mm
KCL12W/N**08**	6000	3000	48	> 63	1200 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

B

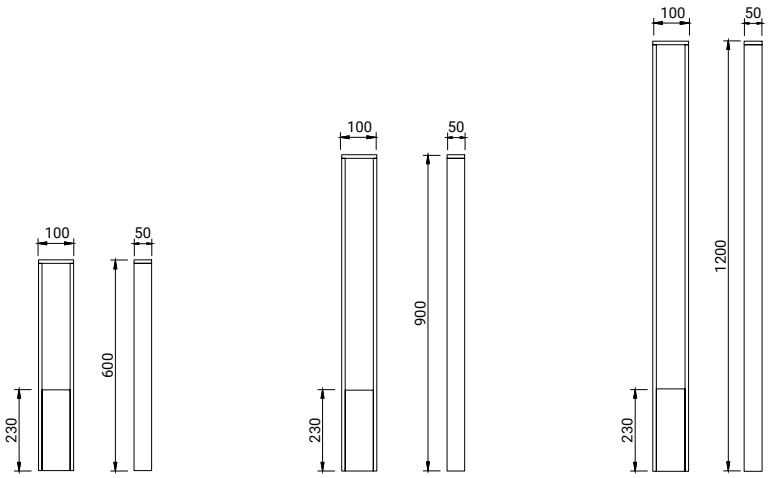
Code

Code Ordering example: **KCL06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCL06**

Mechanical Features

DIMENSIONAL



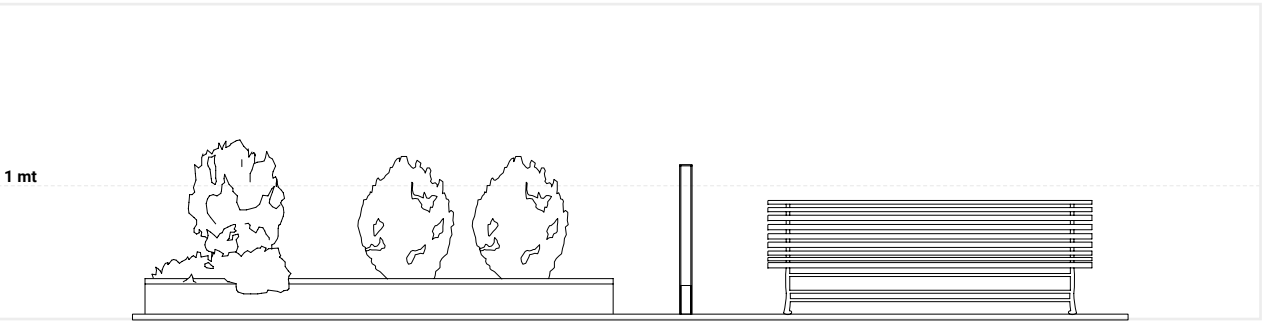
WEIGHT (Kg)

CALIPSO 600: **3,0** - CALIPSO 900: **3,5** - CALIPSO 1200: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





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L'unione fa la luce.





DOMINORE

DOMINORE



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LED Leuchtmittel. Direkte Lichtemission.

RU

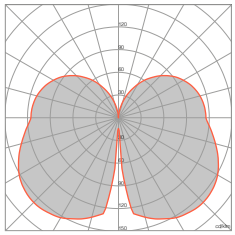
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

DOMINORE



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KDM06W/N**08**	3125	1562	25	> 63	625 mm
KDM09W/N**08**	4500	2250	36	> 63	925 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

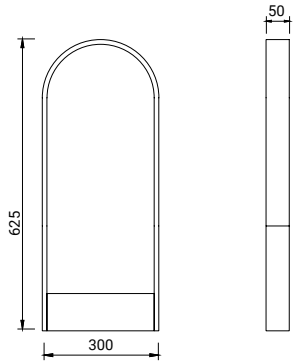
Code

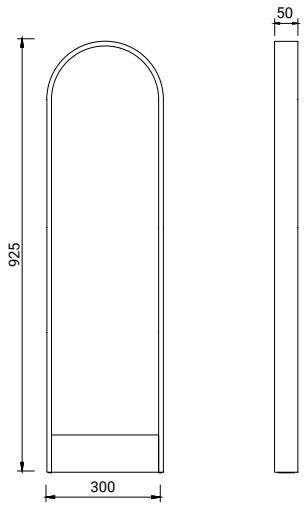
Code Ordering example: **KDM06** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KDM06**

Mechanical Features

DIMENSIONAL





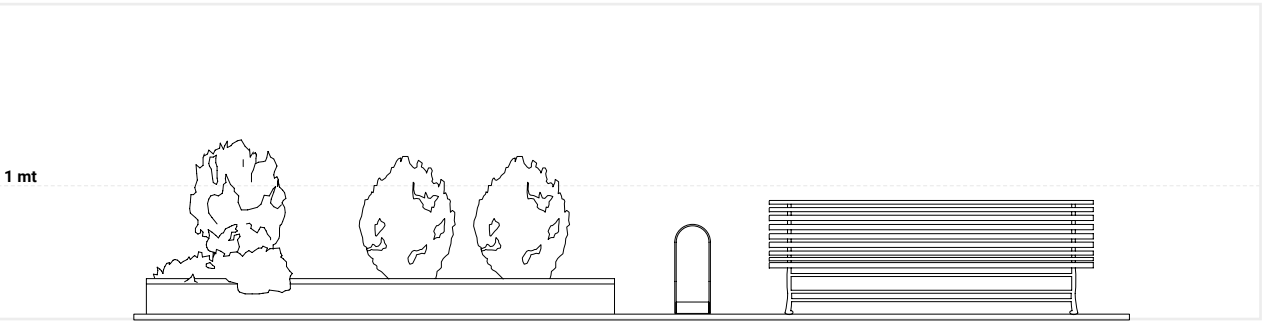
WEIGHT (Kg)

DOMINORE 625: **4,5** - DOMINORE 925: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications



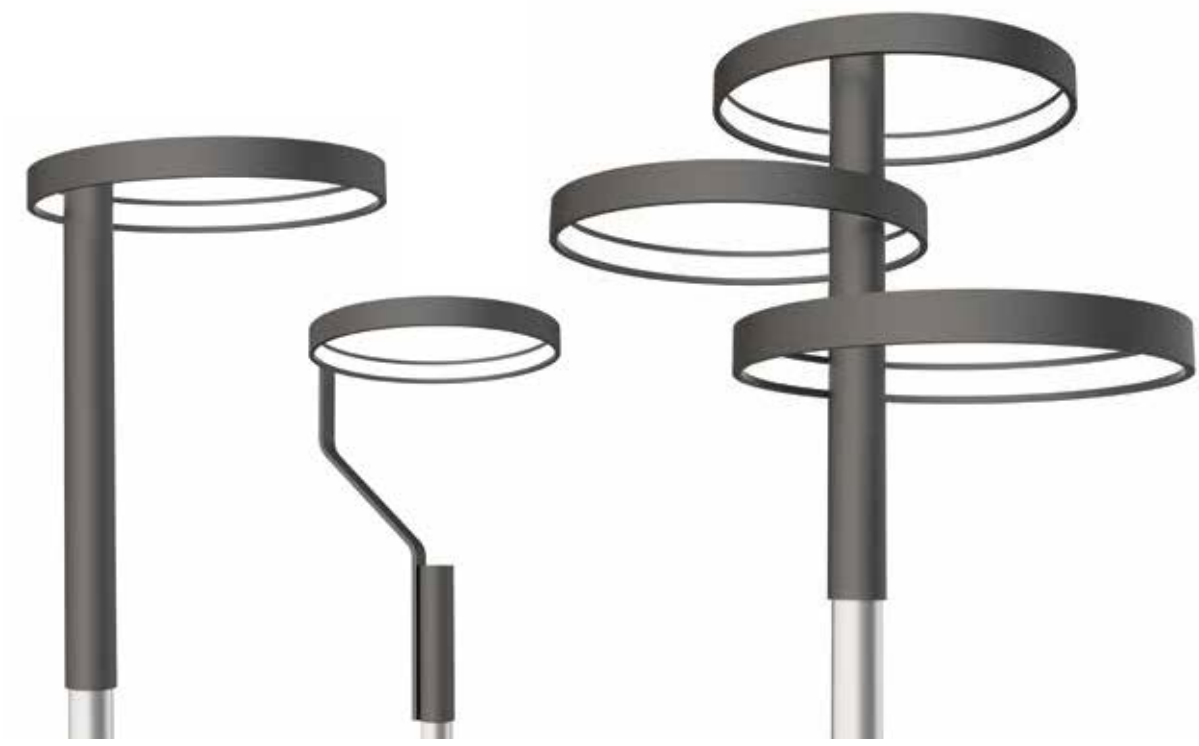


GRUPPO RAINA
L'unione fa la luce.



MARKUS XS

MARKUS XS



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Extruded calendered aluminum body painted with epoxy powders after phosphating. Body and arms designed to obtain a reduced wind exposure surface. Extruded polycarbonate wide beam optic. Opal polycarbonate closing reflector. Fixed pole-top installation (60 mm diameter pole head). LED light source. Direct light emissione.

IT

Corpo in alluminio estruso calandrato, verniciato con polveri epossidiche previa fosfatazione. Corpo e bracci con dimensioni ridotte per ottenere una bassa superficie d'esposizione al vento. Ottica diffondente in policarbonato estruso. Schermo di chiusura in policarbonato opalino. Installazione fissa cima palo (testa palo diametro 60 mm). Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé calandré peinture à base de poudre époxyde et traitement de surface No-Rinse. Corps et bras conçus pour garantir une surface très réduite d'exposition au vent. Optique de diffusion en polycarbonate extrudé. Écran de fermeture en polycarbonate opale. Raccord fixe au sommet du mât (extrémité du mât 60 mm de diamètre). Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio calandrado extruido, barnizado con polvo epoxi previa fosfatación. Carcasa y brazos diseñados para conseguir una superficie reducida de resistencia al viento. Óptica difusora de policarbonado extruido. Difusor de policarbonado opal. Instalación fija en la parte superior del poste (60 mm de diámetro cabeza del poste). Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem, kalandriertem Aluminium, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Entworfener Körper und Arme für eine reduzierte Windfläche. Streuoptik aus extrudiertem Polycarbonat. Abdeckschirm aus opalem Polycarbonat. Feste Polkopfinstallation (Polkopfdurchmesser 60 mm). LED-Lichtquelle. Direkte Lichtemission.

RU

Корпус из экструдированного каландрированного алюминия, окрашенного эпоксидными порошками после фосфатирования. Корпус и опоры предназначены для достижения уменьшенной площади поверхности воздействия ветра. рассеивающая оптика из экструдированного поликарбоната Дорожная оптика из литого ПММА с высокой оптической эффективностью. Светодиодный источник света. Прямой поток света.

MARKUS XS



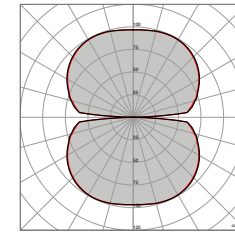


MARKUS XS A



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSA1W/N**08**	2250	1125	18	> 63
KMRSA2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K)



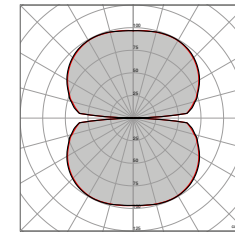
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS B



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSB1W/N**08**	2250	1125	18	> 63
KMRSB2W/N**08**	4500	2250	36	> 63

W/N= **W** (3000 K) | **N** (4000 K



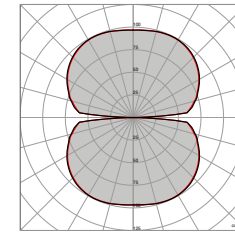
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MARKUS XS C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out
KMRSC5W/N**08**	6750	3375	54	> 63

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

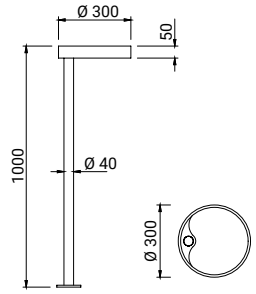
Code Ordering example: **KMRSA1** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMRSA1**

MARKUS XS

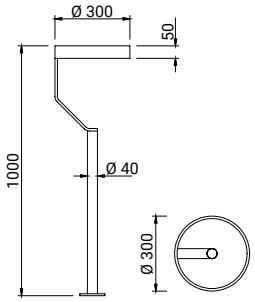
DIMENSIONAL

MARKUS XS A



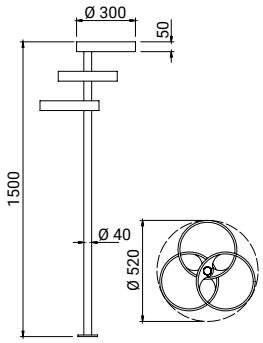
DIMENSIONAL

MARKUS XS B



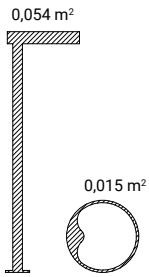
DIMENSIONAL

MARKUS XS C

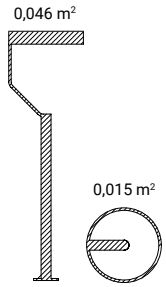


WIND RESISTANCE

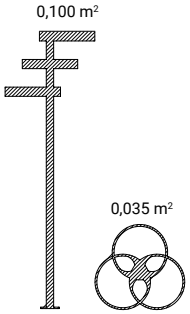
MARKUS XS A



MARKUS XS B



MARKUS XL C



WEIGHT (Kg)

MARKUS XS A: **4,0**
MARKUS XS B: **4,5**
MARKUS XS C: **5,5**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MARKUS XS A - B - C: **-20 ~ +45°C**



GRUPPO RAINA
L'unione fa la luce.



CROKET

CROKET



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		50.000 h LED LIFETIME L80B20		CAE ON/OFF			

EN

Calendered extruded aluminum body. Support structure in carbon steel. Anti-scratch epoxy powder paint finish after phosphating. Opal polycarbonate closing reflector. Multichip LED lighting source. Direct light emission.

IT

Corpo in alluminio estruso calandrato. Struttura di supporto in acciaio al carbonio. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Schermo di chiusura in policarbonato opalino. Sorgente luminosa LED multichip. Emissione diretta.

FR

Corps en aluminium extrudé et calandré. Structure de support en acier au carbone. Finition de peinture en poudre époxy anti-rayures. Écran de fermeture en polycarbonate opale. Source de lumière en LED multichip. Emission directe

ES

Cuerpo en aluminio extruido calandrado. Estructura de soporte en acero al carbono. Recubierta con polvo epoxi anti-rayado previa fosfatación. Difusor de policarbonato opal. Fuente de iluminación LED multichip. Emisión directa.

DE

Körper aus kalandriertem und extrudiertem Kohlenstoffstahl. Tragstruktur aus Kohlenstoffstahl. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. Abdeckschirm aus opalem Polycarbonat. Multichip LEDLeuchtmittel. Direkte Lichtemission.

RU

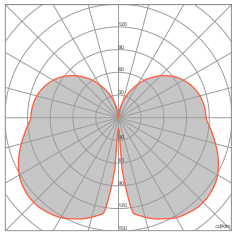
Корпус из экструдированного каландрированного алюминия. Опорный элемент выполнен из углеродистой стали. Покрытие устойчивым к царапинам эпоксидным порошком. Закрывающий экран выполнен из матового поликарбоната Источник света мультикристальный СИД. Прямой поток света.

CROKET



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KCK03W/N**08**	1000	500	6	> 83	145 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

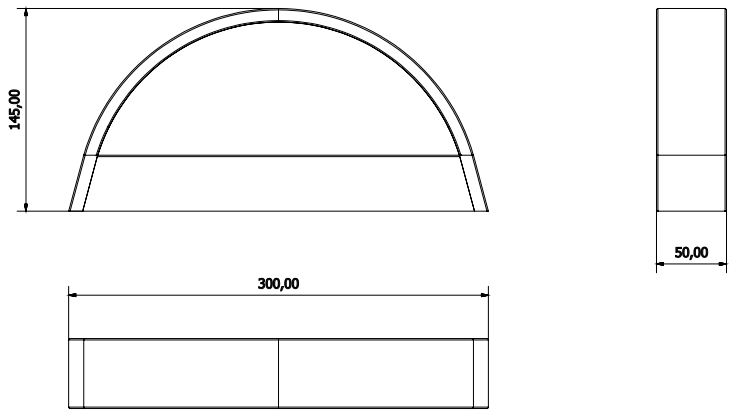
Code

Code Ordering example: **KCK03** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KCK03**

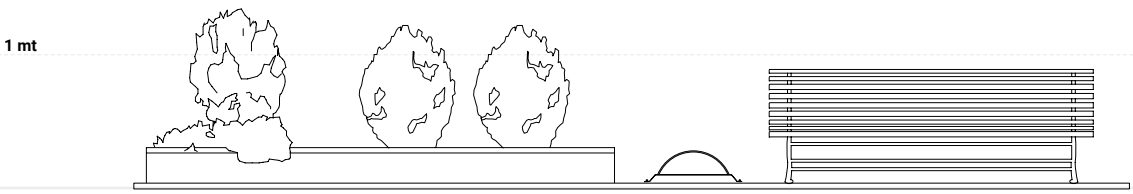
Mechanical Features

DIMENSIONAL



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
1,5	**-20°C ~ +45°C**

Applications





GRUPPO RAINA
L'unione fa la luce.



AIRON

AIRON





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
3 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		CAE ON/OFF			

EN

Aluminum plate body, shaped by laser cutting, painted with epoxy powders after phosphating. IP65 printed silicon optical unit. LED light source Direct light emission.

IT

Corpo in lastra di alluminio, sagomato mediante taglio laser, verniciato con polveri epossidiche previa fosfatazione. Gruppo ottico in silicone stampato IP65. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium, feuille découpée au laser, peinture à base de poudre époxyde et traitement de surface No-Rinse. Groupe optique en silicone imprimé IP65. Source lumineuse LED. Emission directe

ES

Cuerpo en chapa de aluminio, conformado por corte láser, barnizado con polvo epoxi previa fosfatación. Grupo óptico en silicona impresa IP65. Fuente de luz LED. Emisión directa

DE

Körper aus Aluminiumplatte, durch Laserschneiden geformt, der nach der Phosphatierung mit Epoxidpulvern lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. LED-Lichtquelle Direkte Lichtemission

RU

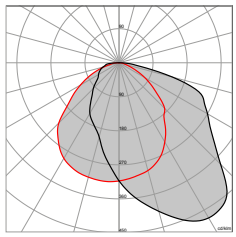
Корпус из алюминевого листа, сформированного лазерной резкой, окрашенного эпоксидными порошками после фосфатирования. Литая силиконовая оптика с защитой IP65. Светодиодный источник света. Прямой поток света.

AIRON



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	h
KAR1400305W/N**08**	1800	1320	11	> 120	500 mm
KAR1400309W/N**08**	1800	1320	11	> 120	900 mm

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

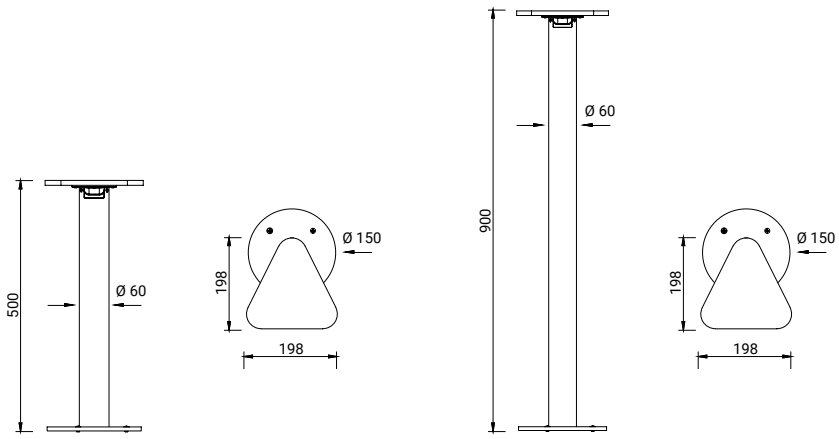
Code

Code Ordering example: **KAR1400305** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KAR1400305**

Mechanical Features

DIMENSIONAL



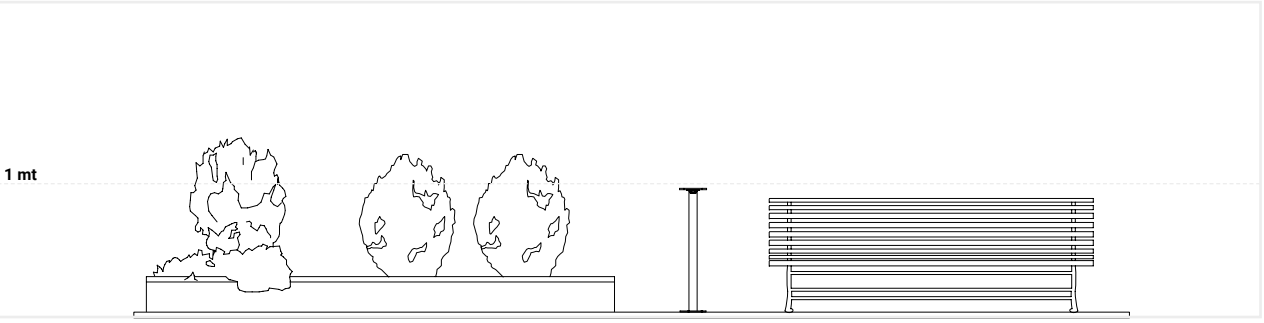
WEIGHT (Kg)

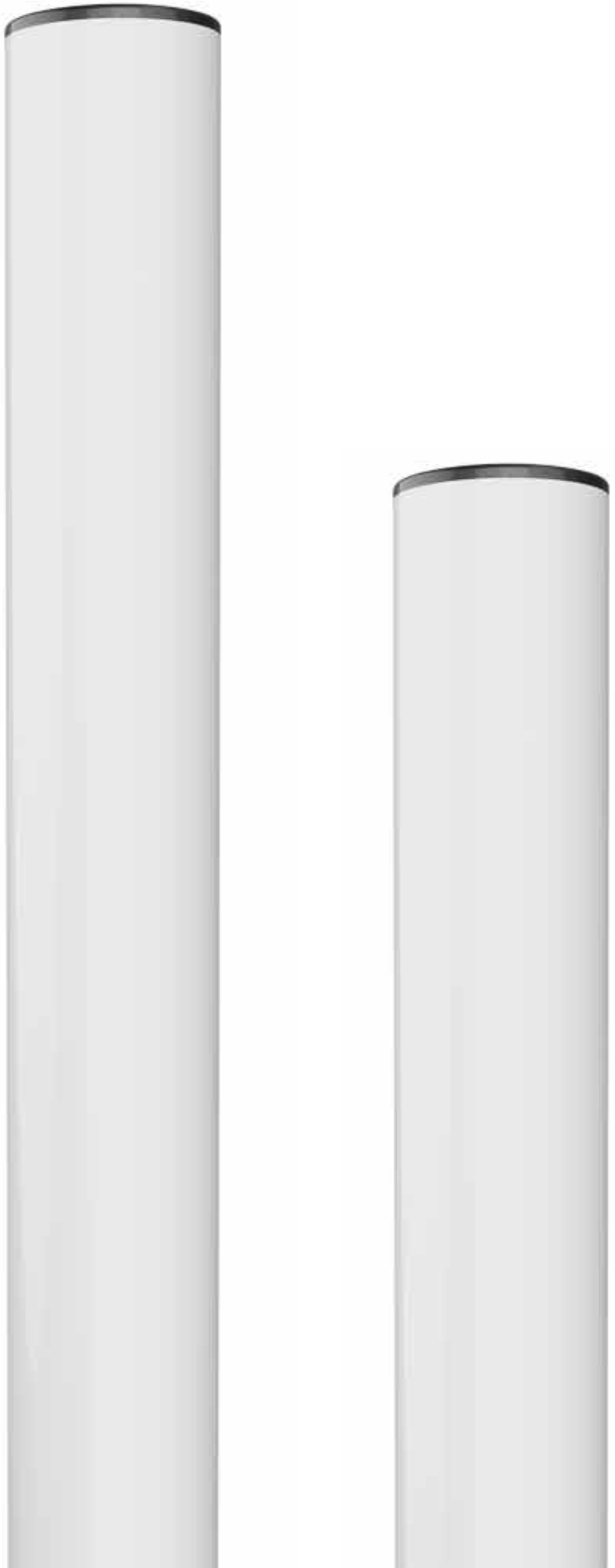
AIRON 500: **3,5** - AIRON 900: **4,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





GRUPPO RAINA
L'unione fa la luce.



MADAI

MADAI



	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10		CAE ON/OFF			

EN

Extruded aluminium body. Opal polycarbonate closing reflector. Anti-scratch epoxy powder paint finish after phosphating. LED light source. Direct light emission.

IT

Corpo in alluminio estruso. Schermo di chiusura in policarbonato opalino. Verniciatura con polveri epossidiche antigraffio previa fosfatazione. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium extrudé. Écran de fermeture en polycarbonate opale. Finition de peinture en poudre époxy anti-rayures. Source lumineuse LED. Emission directe.

ES

Cuerpo de aluminio extruido. Difusor de policarbonato opal. Recubierta con polvo epoxi anti-rayado previa fosfatación. Fuente de luz LED. Emisión directa.

DE

Körper aus extrudiertem Aluminium. Abdeckschirm aus opalem Polycarbonat. Lackierung mit kratzfesten Epoxypulvern nach der Phosphatierung. LED-Lichtquelle. Direkte Lichtemission.

RU

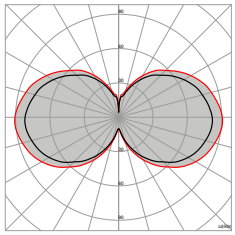
Корпус из экструдированного алюминия. Закрывающий экран выполнен из матового поликарбоната. Покрытие устойчивым к царапинам эпоксидным порошком. Светодиодный источник света. Прямой поток света.

MADAI



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMD0611W/N**08**	3200	1580	25	> 63	h 605-1125

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

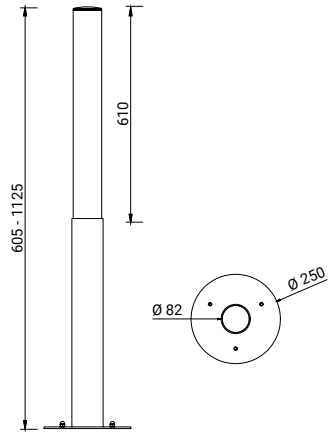
Code

Code Ordering example: **KMD0611** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Product Code: **KMD0611**

Mechanical Features

DIMENSIONAL





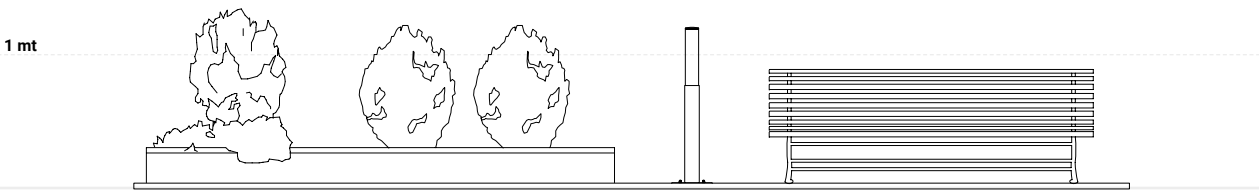
WEIGHT (Kg)

2,5

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20°C ~ +45°C

Applications





GRUPPO RAINA
L'unione fa la luce.

FLOODLIGHTS



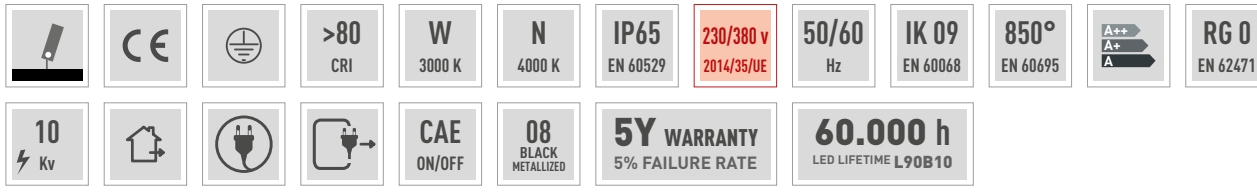




MEGALUX

MEGALUX





EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. Direct light emission. LED light source. IP66 quick plug-in connector for power line included. Electronic power supply CAE in separate box.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE in cassetta separata.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Emission directe. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentación CAE en caja externa.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Emisión directa. Fuente de luz LED. Conector rápido IP66 para alimentación incluido. Boîtier externe pour alimentation électronique CAE.

DE

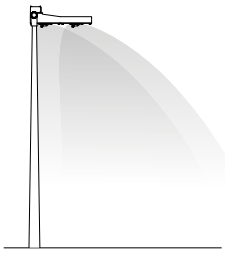
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Elektronische Stromversorgung CAE in separater Box.

RU

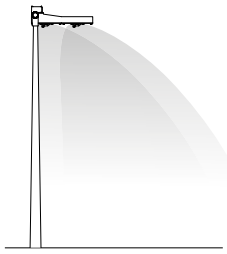
Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Отдельный блок питания CAE.

Beams [MEGALUX 8 - MEGALUX 12]

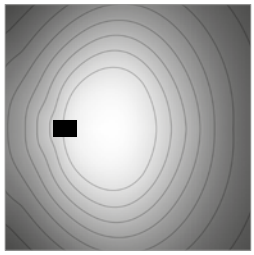
AS [OPTIC]



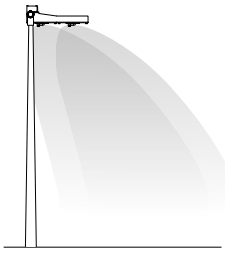
MEGALUX 8



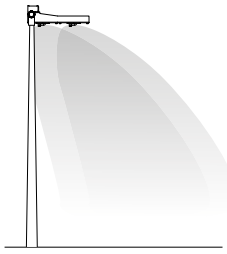
MEGALUX 12



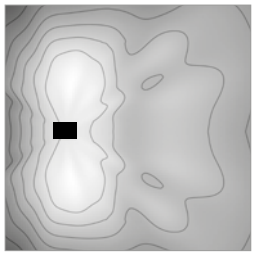
AS2 [OPTIC]



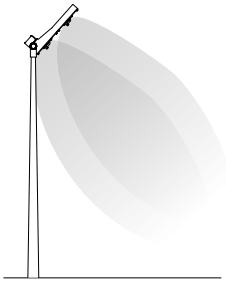
MEGALUX 8



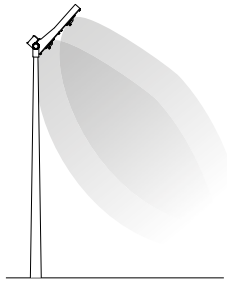
MEGALUX 12



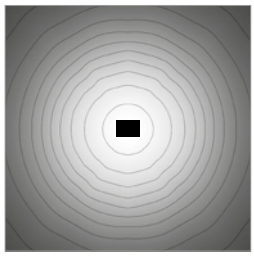
D [OPTIC]



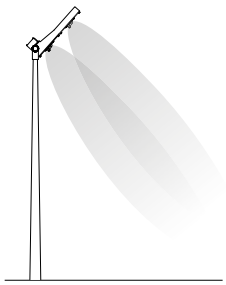
MEGALUX 8



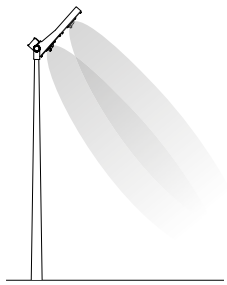
MEGALUX 12



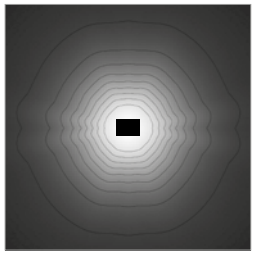
C [OPTIC]



MEGALUX 8



MEGALUX 12

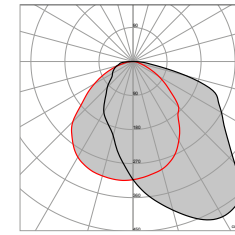


MEGALUX 8 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018ASW/N**08**	124800	93400	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



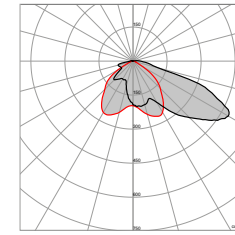
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018AS2W/N**08**	124800	94600	816	> 116	1000

W/N= **W** (3000 K) | **N** (4000 K)



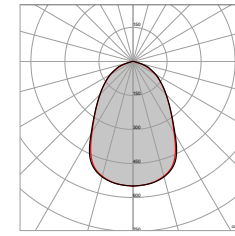
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018DW/N**08**	124800	95800	816	> 118	1000

W/N= **W** (3000 K) | **N** (4000 K)



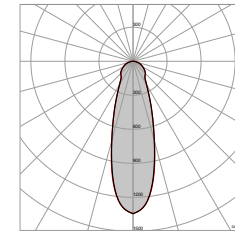
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 8 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG88018CW/N**08**	124800	92600	816	> 114	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMG88018** **AS** W/N **08**

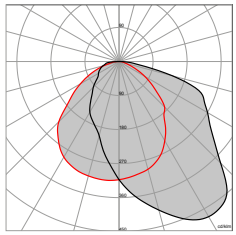
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG88018**

MEGALUX 12 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018ASW/N**08**	187200	140100	1224	> 115	2000

W/N= **W** (3000 K) | **N** (4000 K)



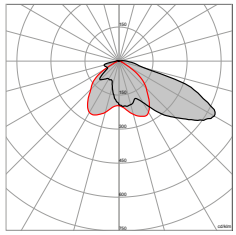
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018AS2W/N**08**	187200	141900	1224	> 116	2000

W/N= **W** (3000 K) | **N** (4000 K)



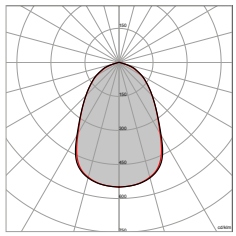
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018DW/N**08**	187200	143700	1224	> 118	2000

W/N= **W** (3000 K) | **N** (4000 K)



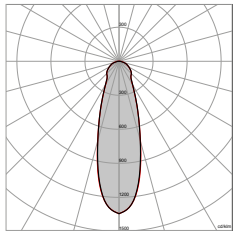
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MEGALUX 12 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMG128018CW/N**08**	187200	140700	1224	> 114	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

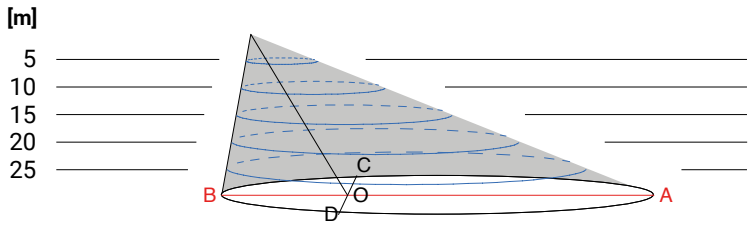
Code

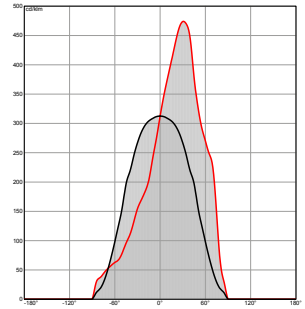
Code Ordering example: **KMG128018** **AS** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMG128018**

Beams [MEGALUX 8-12]

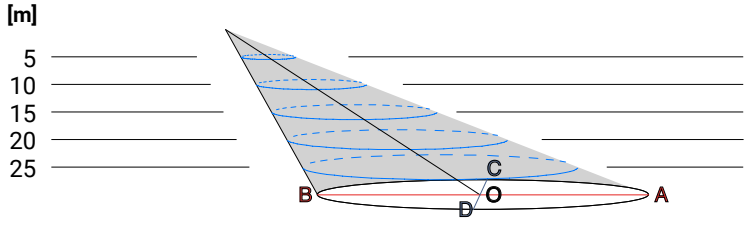
AS [OPTIC]

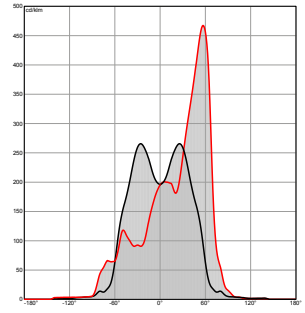




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	1370	330	2055	495
10	340	85	515	125
15	150	40	230	55
20	90	22	130	30
25	55	13	85	20

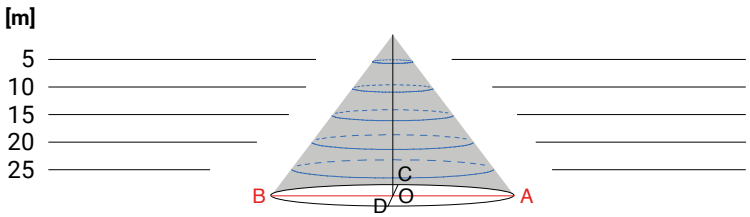
AS2 [OPTIC]

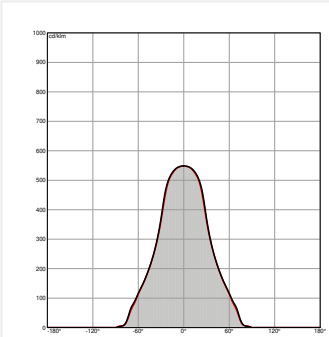




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	735	145	1100	220
10	185	40	280	55
15	85	16	125	25
20	50	10	70	15
25	30	6	45	10

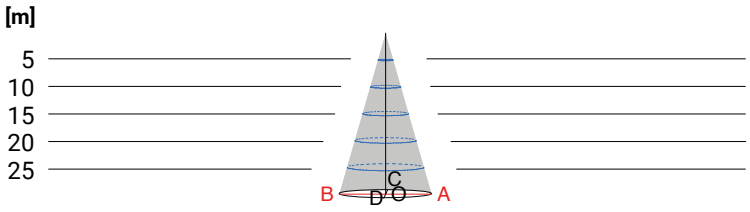
D [OPTIC]

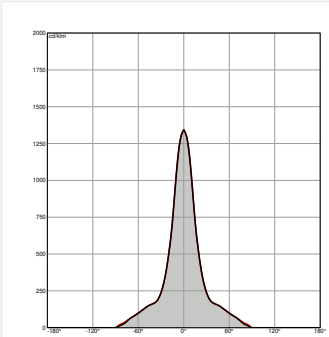




	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	2105	980	3160	1470
10	530	245	790	367
15	235	110	355	170
20	135	65	200	95
25	85	40	130	60

C [OPTIC]





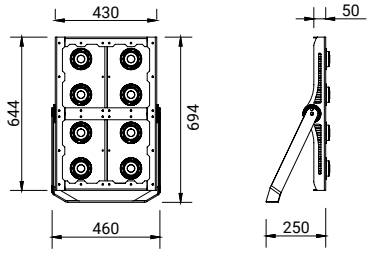
	MEGALUX 8		MEGALUX 12	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
5	4975	3105	7470	4660
10	1245	780	1870	1165
15	555	345	830	295
20	315	195	470	295
25	200	125	300	190

C

MEGALUX

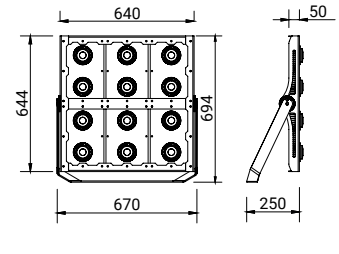
DIMENSIONAL + FIXTING

MEGALUX 8



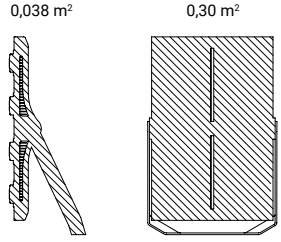
DIMENSIONAL + FIXTING

MEGALUX 12

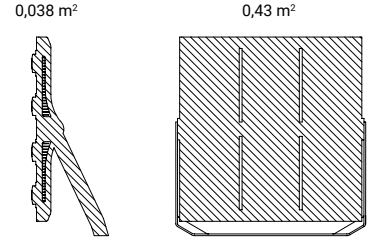


WIND RESISTANCE

MEGALUX 8



MEGALUX 12



WEIGHT (Kg)

MEGALUX 8: **19,0+8,0** (driver box)
MEGALUX 12: **28,0+12,0** (driver box)

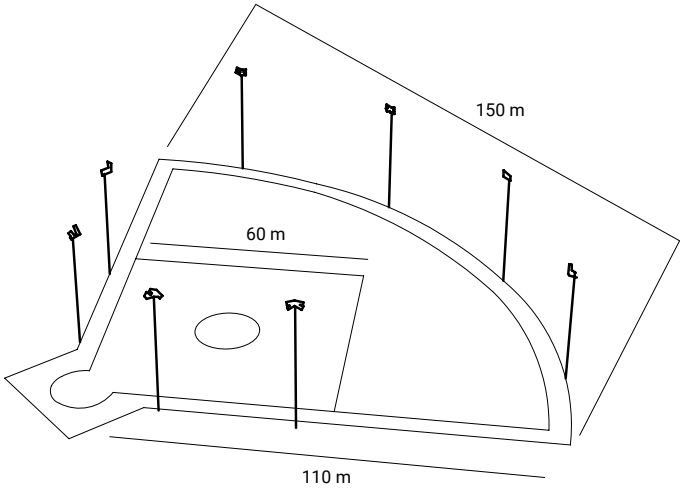
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MEGALUX 8 - 12: **-20 ~ +45°C**

Application (Baseball)



Playground Area	Poles	Lux Value Result	Light Fittings Required
110x110x150 m	8 x h= 30 m	500 Lx pitch 700 Lx Diamond	no.64 KMG12CN

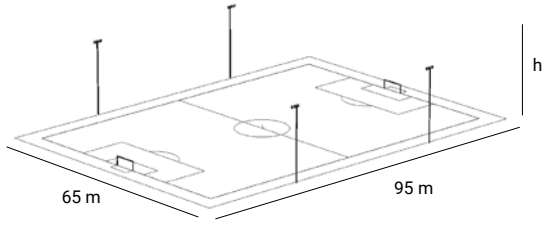


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

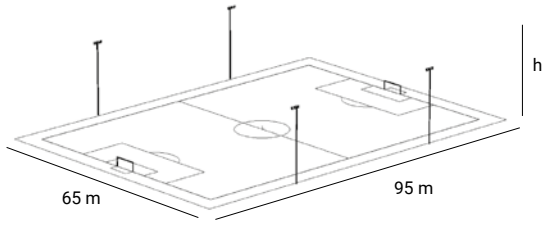
Application (Football)



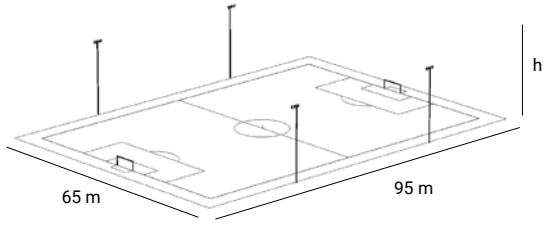
Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 25 m	200 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	4 x h= 20 m	100 Lx	n.20 KMG12CN



Playground Area	Poles	Lux Value Result	Light Fittings Required
95x65 m	8 x h= 15 m	100 Lx	n.8 KMG8CN - KMG8DN



Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx







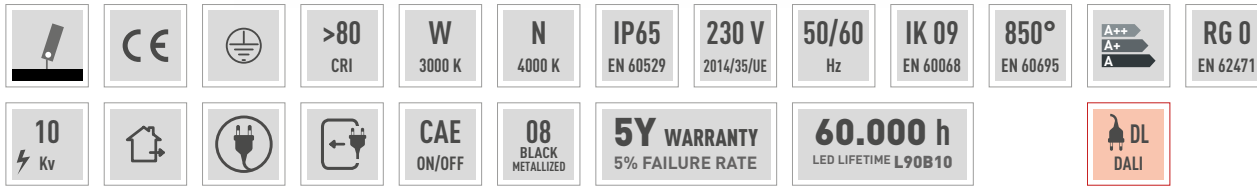
GRUPPO RAINA
L'unione fa la luce.



WALLEY XP

WALLEY XP





On request

EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Emissione diretta. Sorgente luminosa LED. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation.Emission directe. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineuse LED. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED.Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

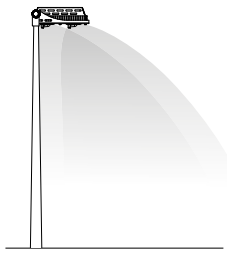
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

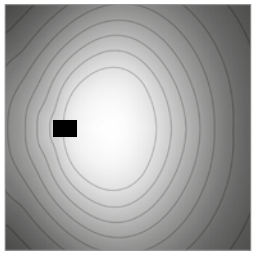
Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Прямой поток света. Светодиодный источник света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [WALLEY XP 1-2-4-6]

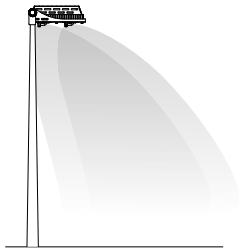
AS [OPTIC]



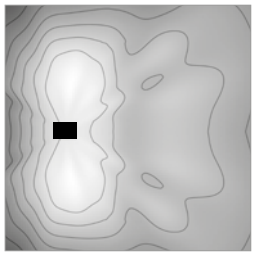
WALLEY XP



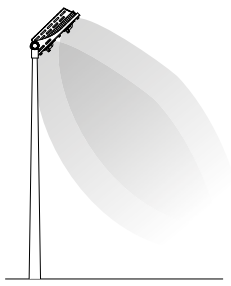
AS2 [OPTIC]



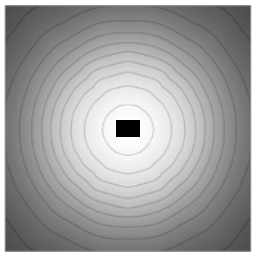
WALLEY XP



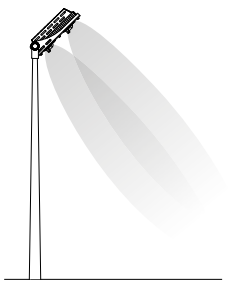
D [OPTIC]



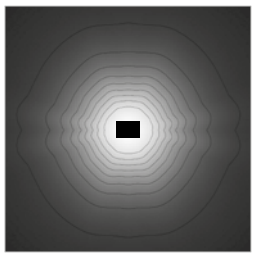
WALLEY XP



C [OPTIC]



WALLEY XP

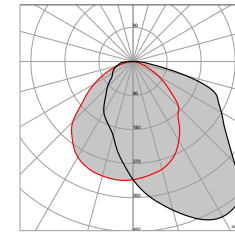


WALLEY XP 1 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016ASW/N**08**	13840	9960	95	> 104	150
KWYX18018ASW/N**08**	15450	10770	105	> 103	150

W/N= **W** (3000 K) | **N** (4000 K)



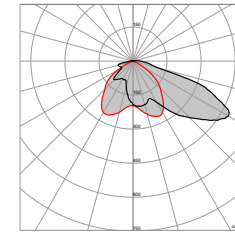
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016AS2W/N**08**	13840	9575	95	> 100	150
KWYX18018AS2W/N**08**	15450	10560	105	> 101	150

W/N= **W** (3000 K) | **N** (4000 K)



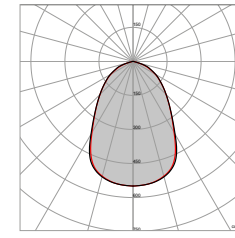
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016DW/N**08**	13840	10340	95	> 108	150
KWYX18018DW/N**08**	15450	11400	105	> 109	150

W/N= **W** (3000 K) | **N** (4000 K)



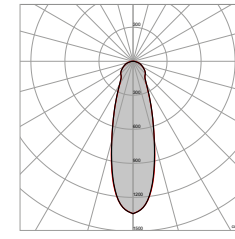
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 1 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX16016CW/N**08**	13840	10080	95	> 112	150
KWYX18018CW/N**08**	15450	11120	105	> 106	150

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX16016** **AS** W/N **08**

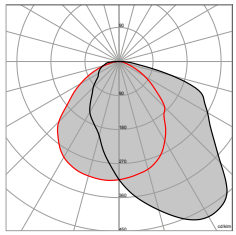
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX16016**

WALLEY XP 2 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013ASW/N**08**	15720	11310	100	> 113	250
KWYX24016ASW/N**08**	18500	13300	123	> 108	250
KWYX26013ASW/N**08**	22840	16230	147	> 110	250
KWYX26016ASW/N**08**	27680	19915	191	> 104	400
KWYX28016ASW/N**08**	28200	20425	184	> 111	400
KWYX28018ASW/N**08**	31200	22070	202	> 109	400
KWYX28021ASW/N**08**	35400	25585	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



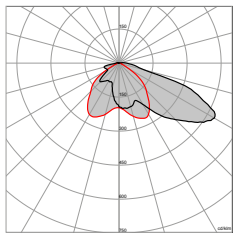
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013AS2W/N**08**	15720	10875	100	> 109	250
KWYX24016AS2W/N**08**	18500	12800	123	> 104	250
KWYX26013AS2W/N**08**	22840	15610	147	> 106	250
KWYX26016AS2W/N**08**	27680	19150	191	> 100	400
KWYX28016AS2W/N**08**	28200	19640	184	> 107	400
KWYX28018AS2W/N**08**	31200	21220	202	> 105	400
KWYX28021AS2W/N**08**	35400	24290	244	> 100	400

W/N= **W** (3000 K) | **N** (4000 K)



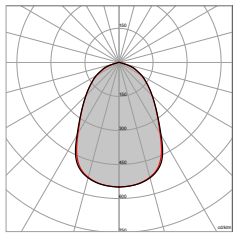
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013DW/N**08**	15720	11750	100	> 118	250
KWYX24016DW/N**08**	18500	13820	123	> 112	250
KWYX26013DW/N**08**	22840	16850	147	> 115	250
KWYX26016DW/N**08**	27680	20680	191	> 108	400
KWYX28016DW/N**08**	28200	21210	184	> 115	400
KWYX28018DW/N**08**	31200	22920	202	> 114	400
KWYX28021DW/N**08**	35400	26230	244	> 108	400

W/N= **W** (3000 K) | **N** (4000 K)



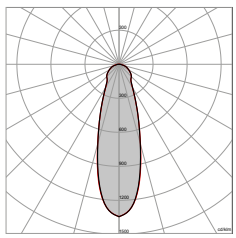
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 2 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX24013CW/N**08**	15720	11455	100	> 115	250
KWYX24016CW/N**08**	18500	13475	123	> 110	250
KWYX26013CW/N**08**	22840	16440	147	> 112	250
KWYX26016CW/N**08**	27680	20170	191	> 106	400
KWYX28016CW/N**08**	28200	20690	184	> 112	400
KWYX28018CW/N**08**	31200	22350	202	> 111	400
KWYX28021CW/N**08**	35400	25550	244	> 105	400

W/N= **W** (3000 K) | **N** (4000 K)



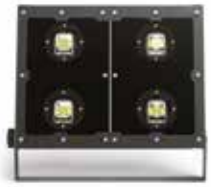
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX24013** **AS** W/N **08**

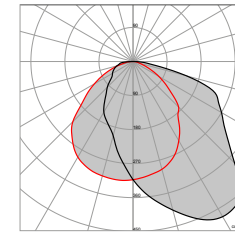
- **08** — Product colour: **08** Black Metalizzed
- W/N — Colour Temperature: **W** 3000 K - **N** 4000 K
- **AS** — Optic type
- **KWYX24013** — Product Code: **KWYX24013**

WALLEY XP 4 AS



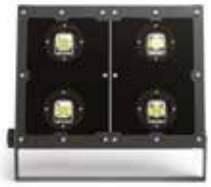
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013ASW/N**08**	31440	22620	200	> 113	400
KWYX44016ASW/N**08**	37000	26600	246	> 108	400
KWYX46013ASW/N**08**	45680	32460	294	> 110	600
KWYX46016ASW/N**08**	55360	39830	382	> 104	600
KWYX48016ASW/N**08**	56400	40850	368	> 111	600
KWYX48018ASW/N**08**	62400	44140	404	> 109	600
KWYX48021ASW/N**08**	70800	51170	488	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



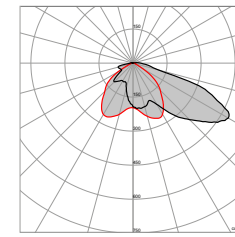
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 AS2



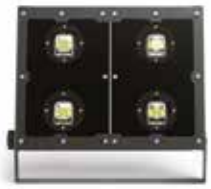
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013AS2W/N**08**	31440	21750	200	> 109	400
KWYX44016AS2W/N**08**	37000	25600	246	> 104	400
KWYX46013AS2W/N**08**	45680	31220	294	> 106	600
KWYX46016AS2W/N**08**	55360	38300	382	> 100	600
KWYX48016AS2W/N**08**	56400	39280	368	> 107	600
KWYX48018AS2W/N**08**	62400	42440	404	> 105	600
KWYX48021AS2W/N**08**	70800	48580	488	> 100	1000

W/N= **W** (3000 K) | **N** (4000 K)



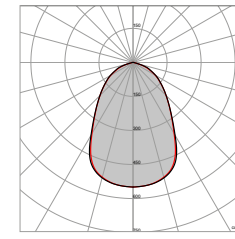
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 D



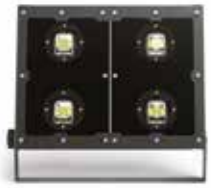
Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013DW/N**08**	31440	23500	200	> 118	400
KWYX44016DW/N**08**	37000	27640	246	> 11	400
KWYX46013DW/N**08**	45680	33700	294	> 113	600
KWYX46016DW/N**08**	55360	41360	382	> 108	600
KWYX48016DW/N**08**	56400	42420	368	> 115	600
KWYX48018DW/N**08**	62400	45840	404	> 114	600
KWYX48021DW/N**08**	70800	52460	488	> 108	1000

W/N= **W** (3000 K) | **N** (4000 K)



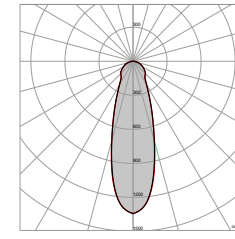
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 4 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX44013CW/N**08**	31440	22910	200	> 114,6	400
KWYX44016CW/N**08**	37000	26950	246	> 109,6	400
KWYX46013CW/N**08**	45680	32880	294	> 111,8	600
KWYX46016CW/N**08**	55360	40340	382	> 105,6	600
KWYX48016CW/N**08**	56400	41380	368	> 112,4	600
KWYX48018CW/N**08**	62400	44700	404	> 110,6	600
KWYX48021CW/N**08**	70800	51100	488	> 104,7	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KWYX44013** **AS** W/N **08**

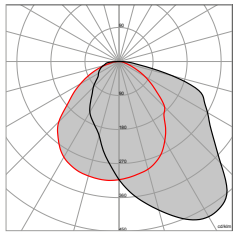
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX44013**

WALLEY XP 6 AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013ASW/N**08**	47160	33930	300	> 113	600
KWYX64016ASW/N**08**	55500	39900	369	> 108	600
KWYX66013ASW/N**08**	68520	48690	441	> 110	1000
KWYX66016ASW/N**08**	83040	59745	573	> 104	1000
KWYX68016ASW/N**08**	84600	61275	552	> 111	1000
KWYX68018ASW/N**08**	93600	66210	606	> 109	1000
KWYX68021ASW/N**08**	106200	76755	732	> 105	1500

W/N= **W** (3000 K) | **N** (4000 K)



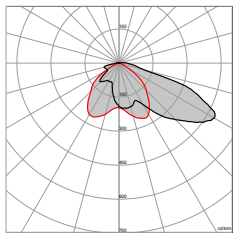
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013AS2W/N**08**	47160	43500	300	> 145	600
KWYX64016AS2W/N**08**	55500	51200	369	> 139	600
KWYX66013AS2W/N**08**	68520	62440	441	> 142	1000
KWYX66016AS2W/N**08**	83040	76600	573	> 133	1000
KWYX68016AS2W/N**08**	84600	78560	552	> 142	1000
KWYX68018AS2W/N**08**	93600	84880	606	> 140	1000
KWYX68021AS2W/N**08**	106200	97160	732	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



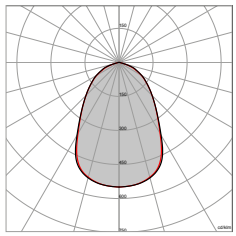
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013DW/N**08**	47160	35250	300	> 118	600
KWYX64016DW/N**08**	55500	41460	369	> 112	600
KWYX66013DW/N**08**	68520	50550	441	> 115	1000
KWYX66016DW/N**08**	83040	62040	573	> 108	1000
KWYX68016DW/N**08**	84600	63630	552	> 115	1000
KWYX68018DW/N**08**	93600	68760	606	> 114	1000
KWYX68021DW/N**08**	106200	78690	732	> 108	1500

W/N= **W** (3000 K) | **N** (4000 K)



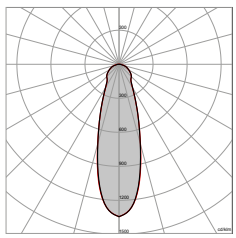
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

WALLEY XP 6 C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KWYX64013CW/N**08**	47160	34365	300	> 114,6	600
KWYX64016CW/N**08**	55500	40425	369	> 109,6	600
KWYX66013CW/N**08**	68520	49320	441	> 111,8	1000
KWYX66016CW/N**08**	83040	60510	573	> 105,6	1000
KWYX68016CW/N**08**	84600	62070	552	> 112,4	1000
KWYX68018CW/N**08**	93600	67050	606	> 110,6	1000
KWYX68021CW/N**08**	106200	76650	732	> 104,7	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

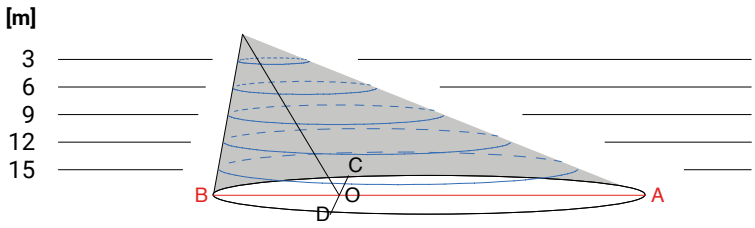
Code

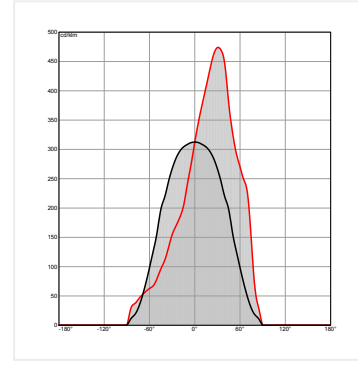
Code Ordering example: **KWYX64013** **AS** W/N **08**

- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KWYX64013**

Beams [WALLEY XP 1]

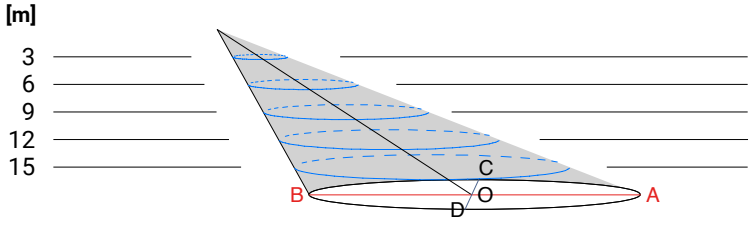
AS [OPTIC]

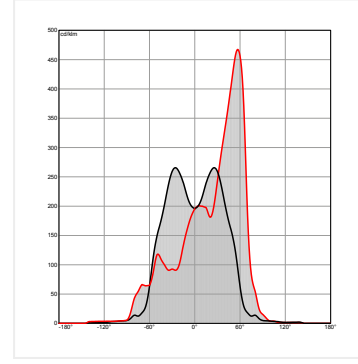




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	425	105	440	105
6	105	26	110	26
9	27	6	50	12
12	-	-	30	7
15	-	-	-	-

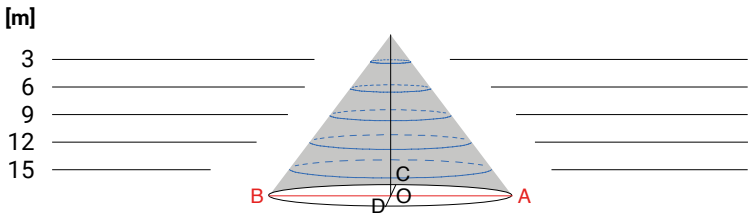
AS2 [OPTIC]

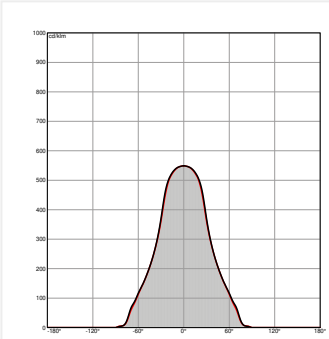




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	220	60	230	65
6	55	15	60	20
9	25	8	30	8
12	-	-	15	5
15	-	-	-	-

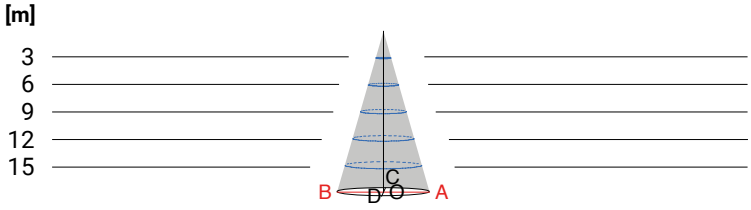
D [OPTIC]

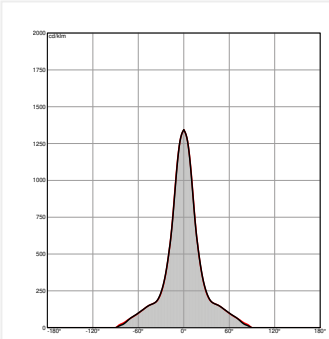




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	660	310	700	325
6	165	80	175	85
9	75	35	80	40
12	43	18	45	20
15	30	12	32	13

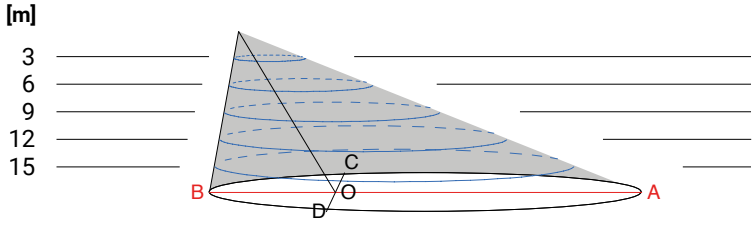
C [OPTIC]

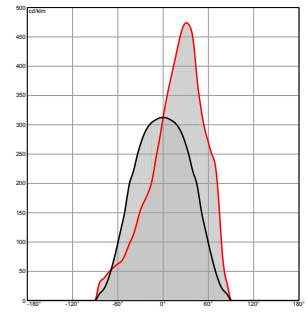




	KWYX16018		KWYX18018	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	2200	1170	2315	1225
6	550	290	580	310
9	250	130	260	140
12	140	76	150	80
15	90	47	95	50

AS [OPTIC]

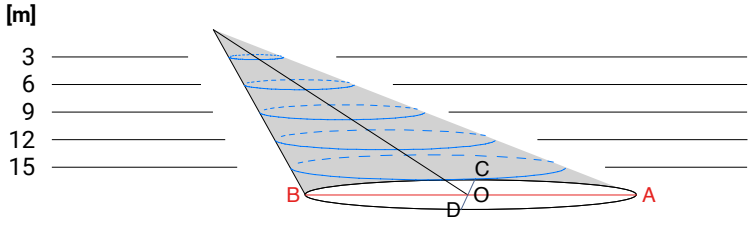


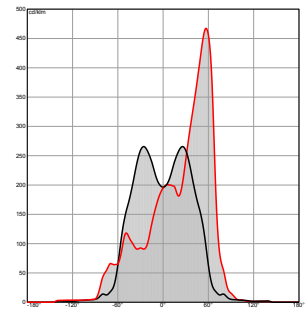


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	460	110	545	135	660	160	810	195
6	115	30	135	35	165	40	205	50
9	50	12	60	15	73	18	90	20
12	30	7	35	8	41	10	51	12
15	18	4	22	5	26	6	32	8

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	835	200	900	220	1050	250
6	210	50	225	55	260	63
9	95	22	100	25	115	30
12	55	13	56	14	65	16
15	33	8	36	9	42	10

AS2 [OPTIC]

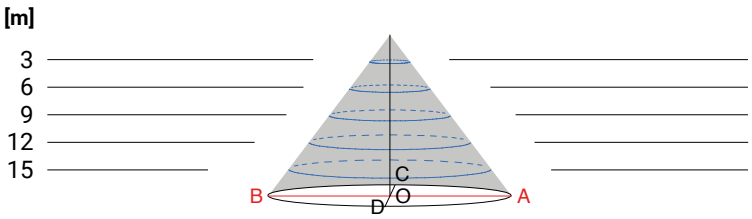


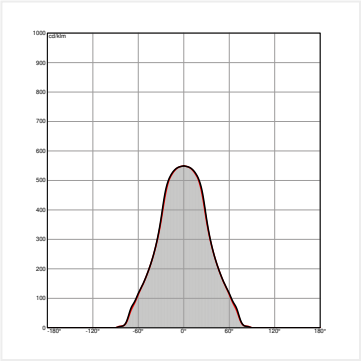


[m]	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	240	65	280	75	340	92	420	115
6	60	16	70	20	85	23	105	28
9	26	7	30	8	38	10	45	12
12	15	4	17	5	21	6	26	7
15	-	-	-	-	14	4	17	5

[m]	KWYX28016		KWYX28018		KWYX28021	
	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	430	120	460	125	530	145
6	107	30	115	31	135	36
9	50	13	51	14	60	16
12	27	7	29	8	35	9
15	16	5	18	5	21	6

D [OPTIC]

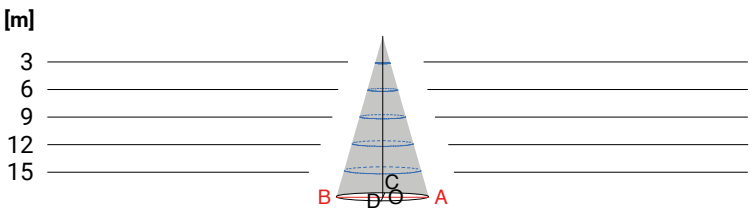


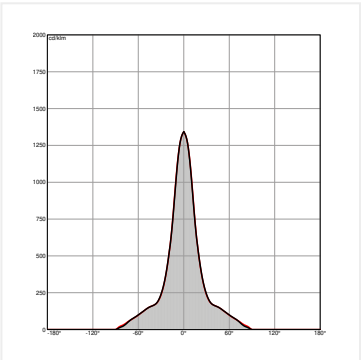


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	720	335	845	400	1030	480	1265	590
6	180	85	215	100	260	120	315	148
9	80	37	95	45	115	55	140	65
12	45	21	55	25	65	30	79	37
15	30	13	35	16	41	20	50	24

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1295	605	1400	650	1600	745
6	325	151	350	165	400	185
9	145	67	155	72	180	85
12	81	38	87	41	100	50
15	52	25	56	26	65	30

C [OPTIC]

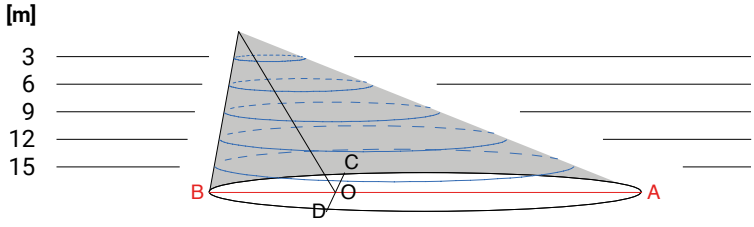


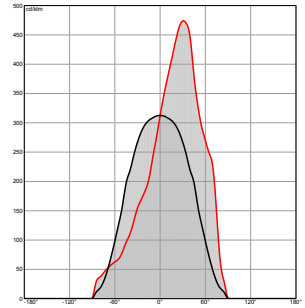


	KWYX24013		KWYX24016		KWYX26013		KWYX26016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1710	1070	2015	1260	2455	1535	3010	180
6	430	270	505	315	615	385	755	470
9	190	120	225	140	275	170	335	210
12	110	70	130	80	155	96	190	120
15	70	45	80	50	100	61	120	75

	KWYX28016		KWYX28018		KWYX28021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3090	1930	3335	2090	3815	2385
6	775	485	835	525	955	595
9	343	215	370	230	425	265
12	195	123	210	130	240	150
15	124	77	133	83	155	95

AS [OPTIC]

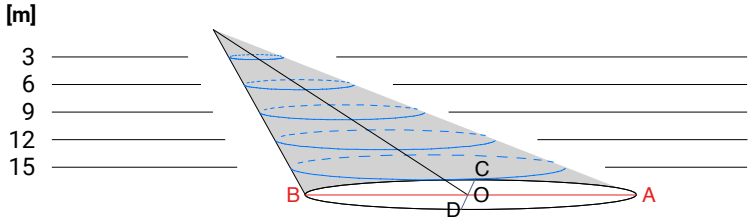


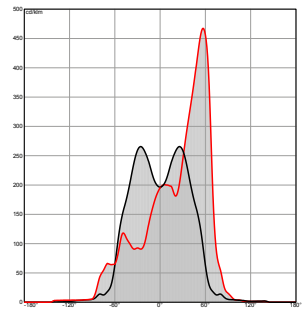


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	920	225	1085	265	1320	320	1625	395
6	230	56	275	65	330	80	405	98
9	105	25	120	30	150	35	180	43
12	58	14	70	16	85	20	100	23
15	37	9	45	10	55	15	65	16

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1665	400	1800	435	2090	500
6	415	100	450	110	525	125
9	185	45	200	50	230	60
12	105	25	115	28	130	31
15	70	18	75	19	85	20

AS2 [OPTIC]

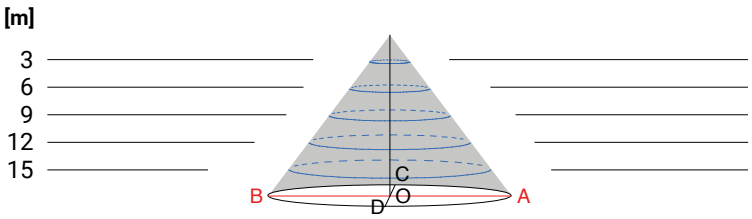


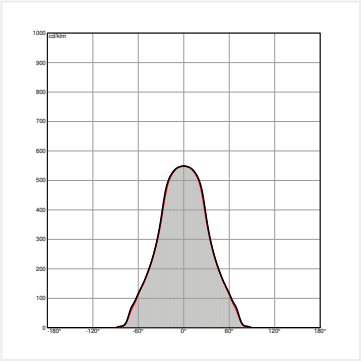


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	475	130	556	155	680	185	835	227
6	120	32	140	40	170	46	210	55
9	53	14	65	20	75	20	92	25
12	30	8	35	10	42	12	52	14
15	20	5	22	6	27	7	33	9

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	855	235	925	250	1060	290
6	215	60	230	65	270	75
9	95	26	105	30	120	35
12	53	14	60	16	70	20
15	34	9	40	10	45	11

D [OPTIC]

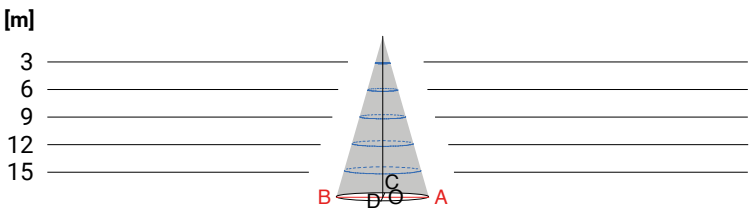


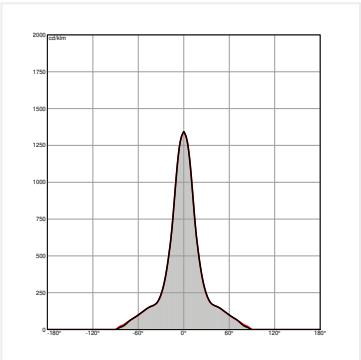


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1435	670	1690	785	2060	960	2525	1175
6	360	170	425	200	515	240	630	295
9	160	75	190	90	230	105	280	130
12	90	45	105	50	130	60	160	73
15	60	30	70	33	85	40	100	48

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	2590	1205	2800	1300	3201	1500
6	650	300	700	330	800	375
9	290	135	315	145	360	170
12	165	75	175	85	200	95
15	105	50	115	55	130	60

C [OPTIC]

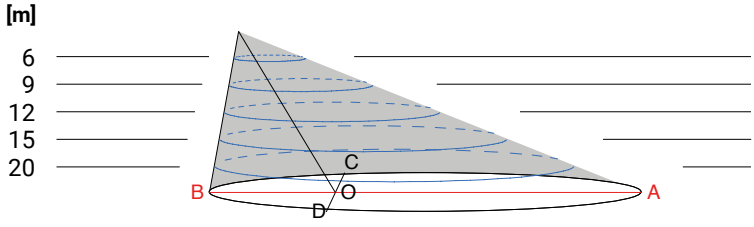


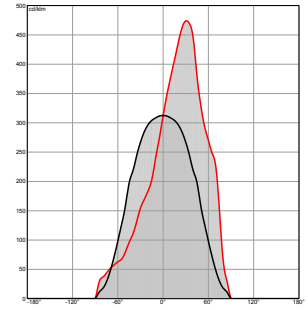


	KWYX44013		KWYX44016		KWYX46013		KWYX46016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3420	2135	4025	2515	4910	3070	6025	3760
6	855	535	1010	230	1230	770	1505	940
9	380	240	450	280	545	340	670	420
12	215	135	255	160	310	195	375	235
15	140	85	160	100	195	125	240	150

	KWYX48016		KWYX48018		KWYX48021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	6180	3860	6675	4170	7630	4765
6	1550	970	1670	1050	1910	1200
9	685	430	745	465	850	530
12	390	245	420	260	480	300
15	250	155	270	170	305	190

AS [OPTIC]

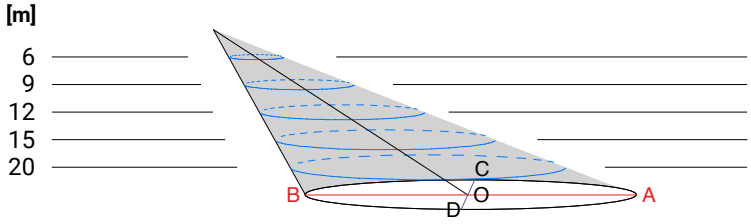


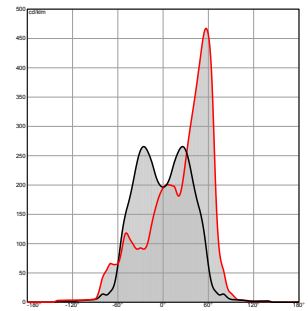


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	350	85	410	100	500	120	610	150
9	155	40	185	45	220	55	270	65
12	86	21	105	25	125	30	155	37
15	55	13	66	16	80	20	98	23
20	31	7	37	9	45	11	55	13

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	625	150	675	165	785	190
9	280	70	300	72	350	85
12	160	40	170	41	195	50
15	100	25	110	27	125	30
20	56	14	61	15	70	17

AS2 [OPTIC]

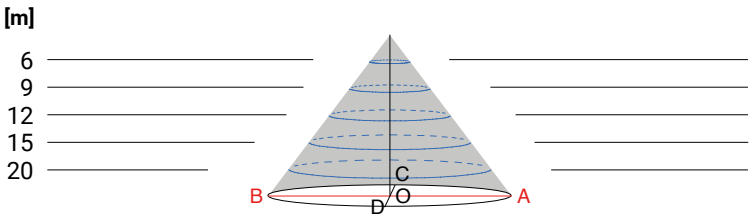


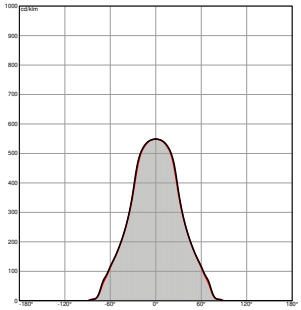


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	180	195	210	60	255	70	315	85
6	80	21	95	25	115	31	140	38
9	45	12	55	15	65	20	76	21
12	30	8	35	10	40	11	50	13
15	16	4	20	5	23	6	28	8

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	320	90	350	95	400	110
6	145	40	155	45	180	50
9	80	22	86	25	100	30
12	51	14	55	15	65	20
15	29	8	31	9	36	10

D [OPTIC]

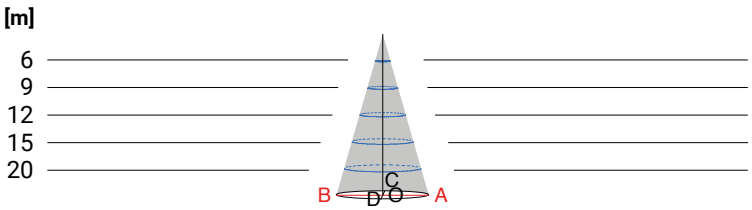


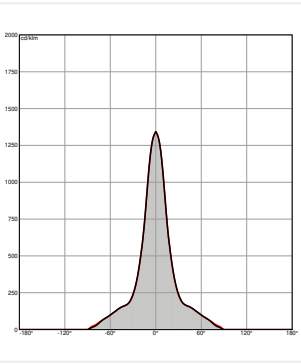


	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	540	250	640	300	770	360	950	445
9	240	115	280	130	345	160	425	200
12	135	63	160	75	195	90	240	110
15	86	40	100	50	125	57	155	70
20	50	25	60	30	70	35	85	40

	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	975	455	1050	490	1200	560
9	435	205	470	220	535	250
12	245	115	270	125	300	140
15	155	75	170	80	195	90
20	87	41	95	45	110	50

C [OPTIC]





	KWYX64013		KWYX64016		KWYX66013		KWYX66016	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	1285	800	1510	945	1840	1150	2260	1410
9	570	360	670	420	820	515	1005	630
12	325	200	380	235	460	290	565	355
15	205	130	240	150	295	185	365	230
20	115	75	135	85	170	105	205	128

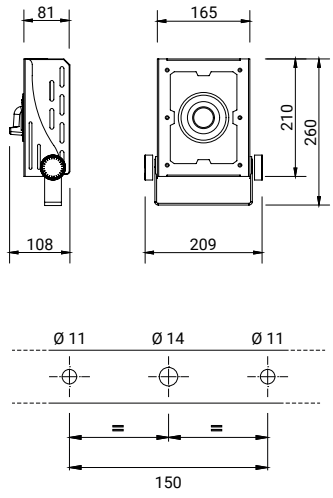
	KWYX68016		KWYX68018		KWYX68021	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
6	2320	1450	2505	1565	2860	1790
9	1030	645	1115	695	1275	795
12	580	365	625	395	715	450
15	375	235	400	250	4660	290
20	210	130	225	145	260	165

C

WALLEY XP

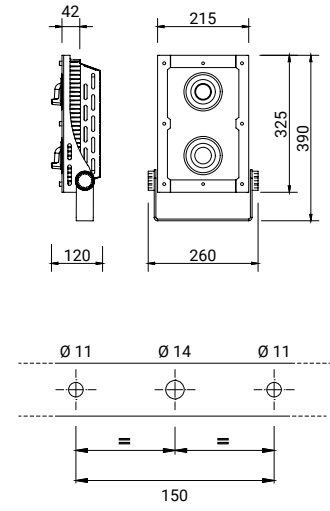
DIMENSIONAL + FIXTING

WALLEY XP 1



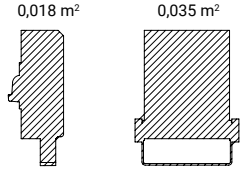
DIMENSIONAL + FIXTING

WALLEY XP 2

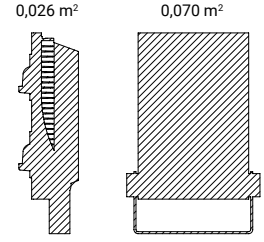


WIND RESISTANCE

WALLEY XP 1



WALLEY XP 2



WEIGHT (Kg)

WALLEY XP 1: **4,5**
WALLEY XP 2: **6,0**

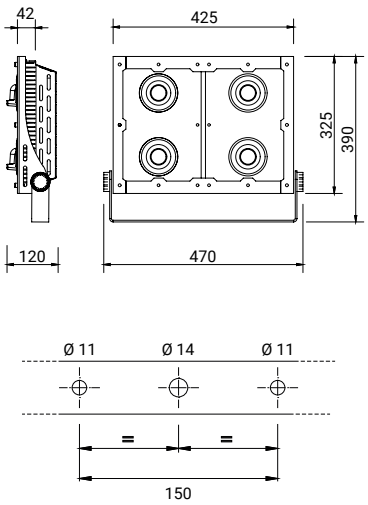
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 1 - 2: **-20 ~ +45°C**

WALLEY XP

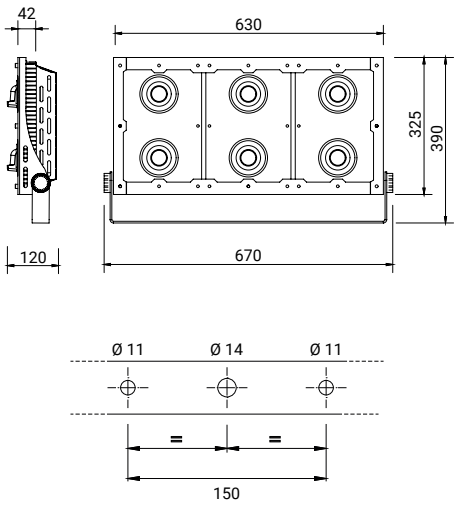
DIMENSIONAL + FIXTING

WALLEY XP 4



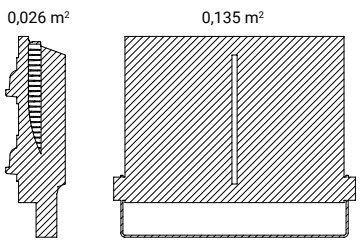
DIMENSIONAL + FIXTING

WALLEY XP 6

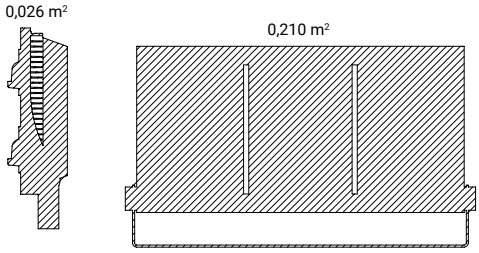


WIND RESISTANCE

WALLEY XP 4



WALLEY XP 6



WEIGHT (Kg)

WALLEY XP 4: **10,0**
WALLEY XP 6: **15,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

WALLEY XP 4 - 6: **-20 ~ +45°C**



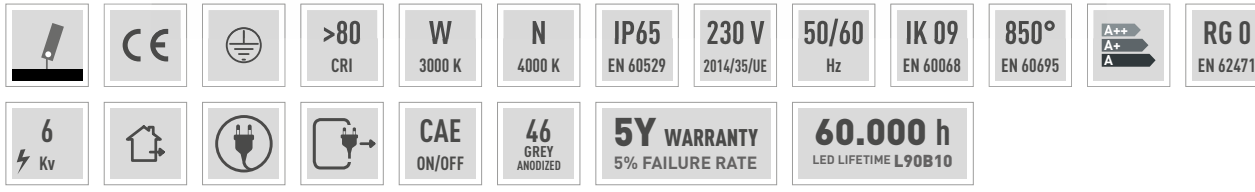
GRUPPO RAINA
L'unione fa la luce.



MOKA

MOKA





EN

Extruded anodized aluminum body with heat-sink function. Bent anodized aluminum frame painted with epoxy powders after phoshating. IP 65 printed silicon optical unit. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. Street optics in high performance optical molded silicone with high mechanical resistance, anti-yellowing and anti-scratch. LED light source. Direct light emission. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio in alluminio pressopiegato verniciato con polveri epossidiche. Gruppo ottico in silicone stampato IP65. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Ottiche stradali in silicone stampato ad alto rendimento ottico con elevata resistenza meccanica, anti-ingiallimento ed antigraffio. Sorgente luminosa LED. Emissione diretta. Connettore rapido IP66 per linea di alimentazione incluso. Alimentazione elettronica CAE esterna, IP65 fissata al corpo.

FR

Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Châssis en aluminium anodisé pliée à la presse peint avec peinture epoxy poudré après phosphatation. Groupe optique en silicone imprimé IP65. Support de fixation réglable en acier pliée à la presse et peint avec peinture epoxy poudré après phosphatation avec goniomètre. Optiques routières encapsulées dans le silicone moulé offrant une haute transparence optique, résistance mécanique élevée, et un fort indice de réfraction. Forte résistance aux UVs, aux chocs et aux rayures. Source lumineux LED. Émission directe. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco en aluminio anodizado plegado a presión con polvo epoxi previamente fosfatado. Grupo óptico en silicona impresa IP65D. Soporte regulable en acero plegado a presión y recubierto con polvo epoxi previamente fosfatado, completo de goniómetro. Óptica vial en silicona estampada de alto rendimiento con alta resistencia mecánica, anti-amarilleo y anti-rayado. Fuente de luz LED. Emisión directa. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

DE

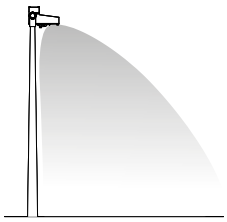
Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Anodisierter, gepresster Aluminiumrahmen der nach der Phosphatierung mit Epoxidpulver lackiert wurde. Optische Einheit aus gegossenem Silikon IP65. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Straßenoptik aus optisch geformtem Hochleistungssilikon mit hoher mechanischer Beständigkeit, Vergilbungs- und Kratzfestigkeit. LED-Lichtquelle. Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

RU

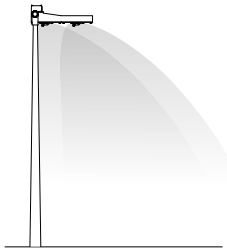
Анодированный экструдированный алюминиевый корпус с функцией теплоотвода. Анодированная, штампованная алюминиевая рама. Оптический блок из литого силикона со степенью защиты IP65. Регулируемый кронштейн из штампованной стали, окрашенный эпоксидными порошковыми красками после фосфатирования, в комплекте с транспортиром. Уличная оптика из высокоэффективного оптического литого силикона с высокой механической прочностью, устойчивого к пожелетению и царапинам. Светодиодный источник света. Прямой поток света. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

Beams [MOKA - MOKA XL]

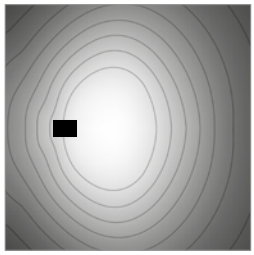
AS [OPTIC]



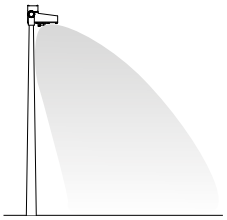
MOKA



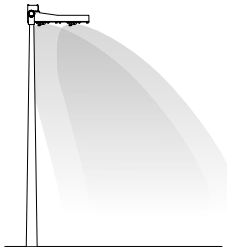
MOKA XL



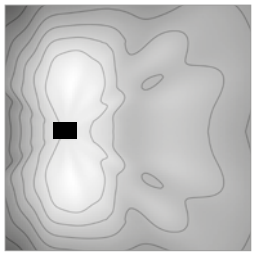
AS2 [OPTIC]



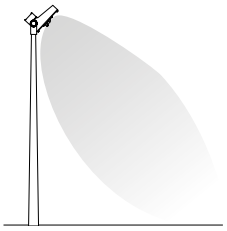
MOKA



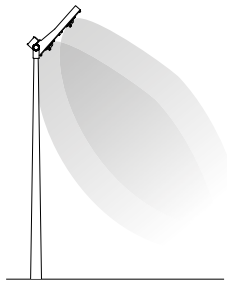
MOKA XL



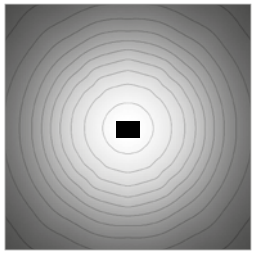
D [OPTIC]



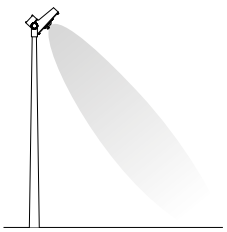
MOKA



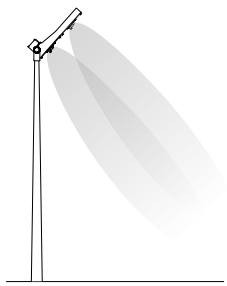
MOKA XL



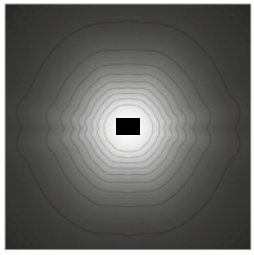
C [OPTIC]



MOKA



MOKA XL

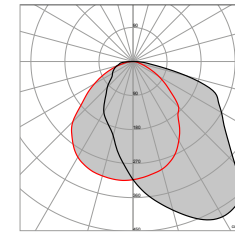


MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014ASW/N**46**	24300	17150	162	> 108	400
KMK26017ASW/N**46**	29000	20650	200	> 103	400
KMK28018ASW/N**46**	31200	23350	204	> 115	400
KMK28022ASW/N**46**	36600	26600	254	> 105	600

W/N= **W** (3000 K) | **N** (4000 K)



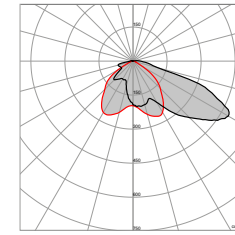
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014AS2W/N**46**	24300	18560	162	> 115	400
KMK26017AS2W/N**46**	29000	21870	200	> 109	400
KMK28018AS2W/N**46**	31200	23650	204	> 116	400
KMK28022AS2W/N**46**	36600	28200	254	> 111	600

W/N= **W** (3000 K) | **N** (4000 K)



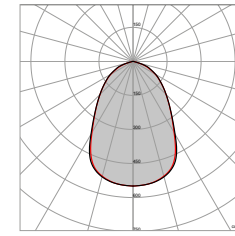
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014DW/N**46**	24300	18790	162	> 116	400
KMK26017DW/N**46**	29000	22150	200	> 111	400
KMK28018DW/N**46**	31200	23950	204	> 117	400
KMK28022DW/N**46**	36600	28540	254	> 112	600

W/N= **W** (3000 K) | **N** (4000 K)



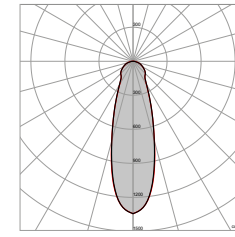
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK26014CW/N**46**	24300	18160	162	> 112	400
KMK26017CW/N**46**	29000	21390	200	> 107	400
KMK28018CW/N**46**	31200	23450	204	> 115	400
KMK28022CW/N**46**	36600	27580	254	> 109	600

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK26014** **AS** W/N **46**

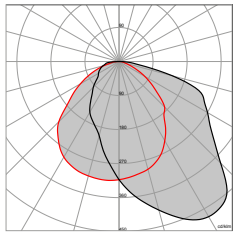
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK26014**

MOKA AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020ASW/N**46**	16250	12230	122	> 101	250
KMK18023ASW/N**46**	18890	13960	136	> 103	250

W/N= **W** (3000 K) | **N** (4000 K)



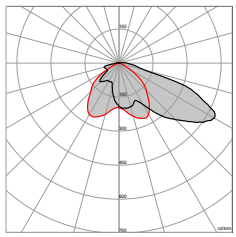
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020AS2W/N**46**	16250	12970	122	> 106	250
KMK18023AS2W/N**46**	18890	14800	136	> 109	250

W/N= **W** (3000 K) | **N** (4000 K)



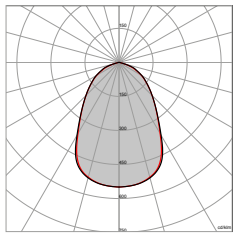
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020DW/N**46**	16250	13120	122	> 108	250
KMK18023DW/N**46**	18890	14980	136	> 110	250

W/N= **W** (3000 K) | **N** (4000 K)



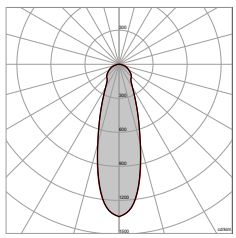
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK16020CW/N**46**	16250	12690	122	> 104	250
KMK18023CW/N**46**	18890	14480	136	> 106	250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KMK16020** **AS** W/N **46**

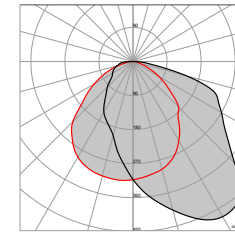
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK16020**

MOKA XL AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014ASW/N**46**	48600	35020	324	> 108	600
KMK46017ASW/N**46**	58000	41300	400	> 103	600
KMK48018ASW/N**46**	62400	46700	408	> 115	1000
KMK48022ASW/N**46**	73200	53200	508	> 105	1000

W/N= **W** (3000 K) | **N** (4000 K)



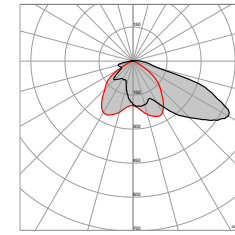
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL AS2



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014AS2W/N**46**	48600	37120	324	> 115	600
KMK46017AS2W/N**46**	58000	43740	400	> 109	600
KMK48018AS2W/N**46**	62400	47305	408	> 116	1000
KMK48022AS2W/N**46**	73200	56400	508	> 111	1000

W/N= **W** (3000 K) | **N** (4000 K)



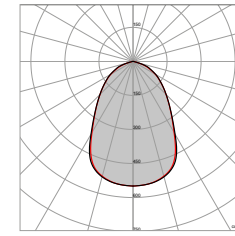
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014DW/N**46**	48600	37580	324	> 116	600
KMK46017DW/N**46**	58000	44300	400	> 111	600
KMK48018DW/N**46**	62400	47900	408	> 118	1000
KMK48022DW/N**46**	73200	57080	508	> 112	1000

W/N= **W** (3000 K) | **N** (4000 K)



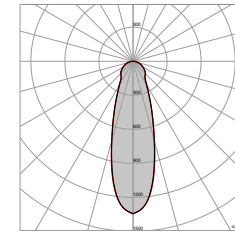
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

MOKA XL C



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KMK46014CW/N**46**	48600	36320	324	> 112	600
KMK46017CW/N**46**	58000	42780	400	> 107	600
KMK48018CW/N**46**	62400	46300	408	> 114	1000
KMK48022CW/N**46**	73200	55160	508	> 109	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

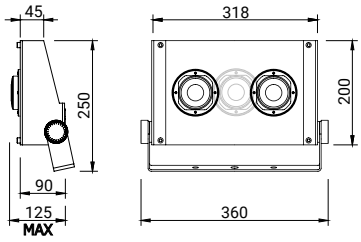
Code Ordering example: **KMK46014** **AS** W/N **46**

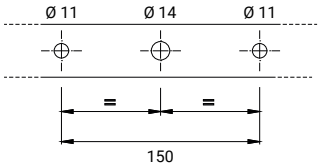
- Product colour: **46** Grey Anodized
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KMK46014**

MOKA

DIMENSIONAL + FIXTING

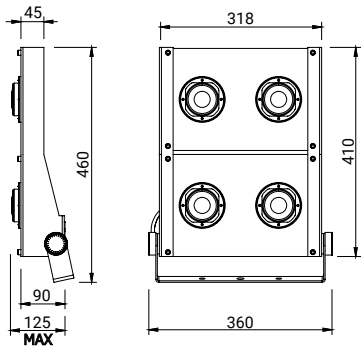
MOKA

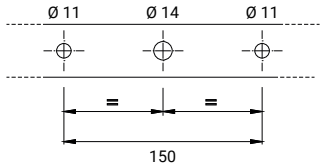




DIMENSIONAL + FIXTING

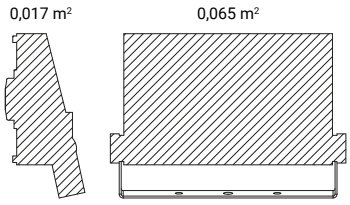
MOKA XL



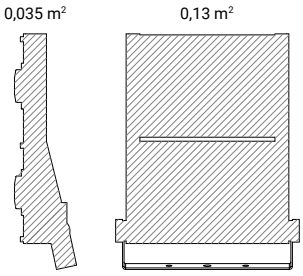


WIND RESISTANCE

MOKA



MOKA XL



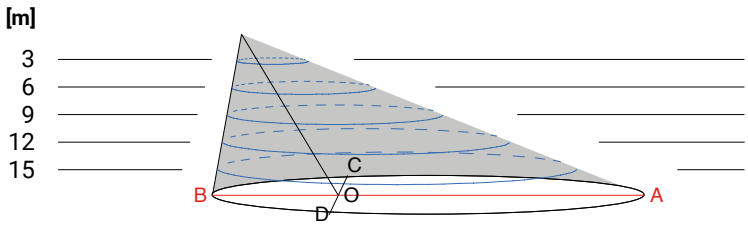
WEIGHT (Kg)

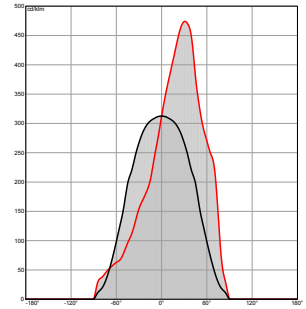
MOKA: **5,7**
MOKA XL: **9,7**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

MOKA - MOKA XL: **-20 ~ +45°C**

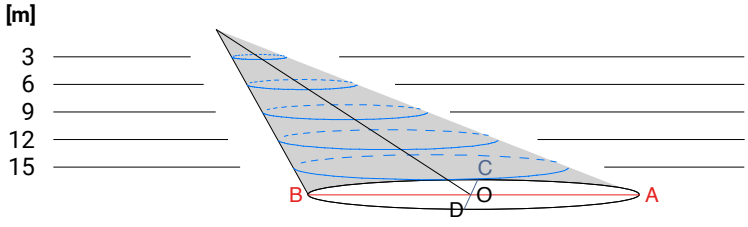
AS [OPTIC]

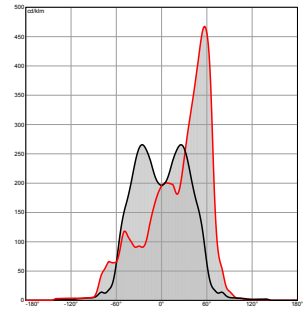




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140	570	110	500	100
6	275	55	230	45	210	40	180	35	145	30	125	25
9	121	25	100	20	95	20	80	15	65	15	55	11
12	7	15	60	11	55	10	45	10	37	7	-	-
15	45	8	40	8	35	7	30	6	-	-	-	-

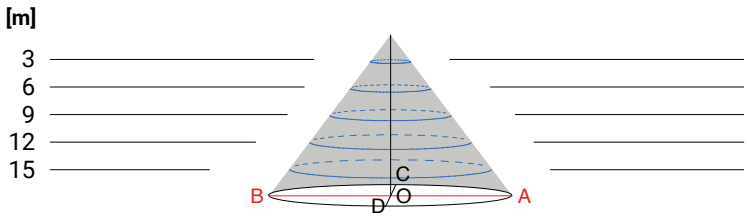
AS2 [OPTIC]

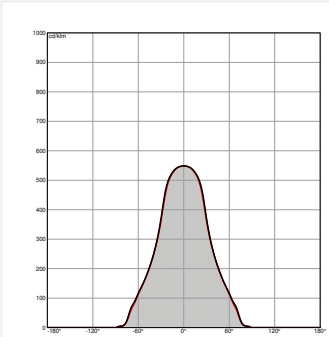




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	615	170	520	140	475	130	405	110	325	90	290	80
6	160	45	130	35	120	35	100	27	80	25	70	20
9	70	20	60	16	55	15	45	12	36	10	31	8
12	40	10	32	10	30	8	25	7	-	-	-	-
15	25	7	21	6	-	-	-	-	-	-	-	-

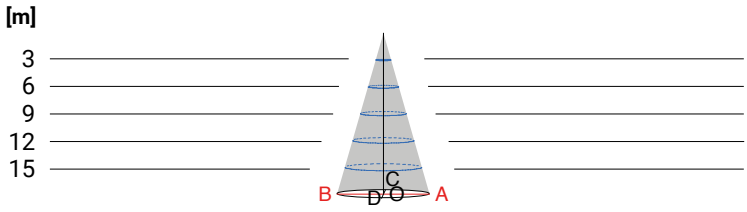
D [OPTIC]

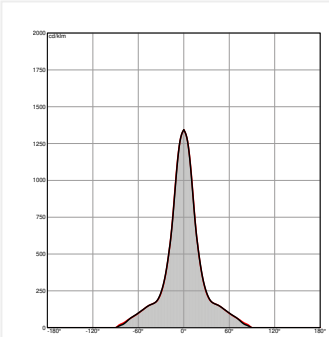




	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1742	815	1420	660	1350	630	1150	535	915	430	800	375
6	435	205	355	165	340	160	290	135	230	106	200	95
9	195	90	160	75	150	70	130	60	105	50	90	40
12	110	51	90	41	85	39	75	35	60	30	50	25
15	70	32	60	26	55	25	46	21	40	20	32	15

C [OPTIC]

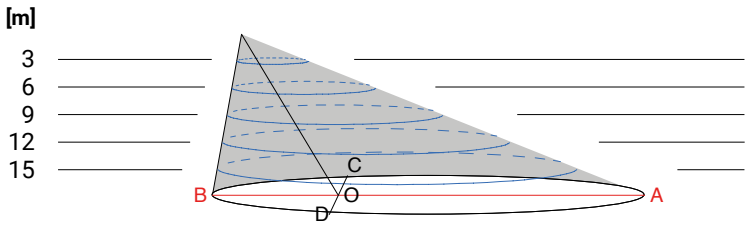


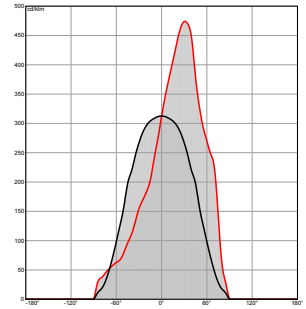


	KMK28022		KMK28018		KMK26017		KMK26014		KMK18023		KMK16020	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	4115	2570	3330	2080	3095	1995	2710	1670	2165	1350	1900	1185
6	1030	650	835	520	800	500	680	425	540	340	475	300
9	460	290	370	230	355	225	300	190	240	150	210	131
12	260	161	210	130	200	125	170	110	135	85	120	75
15	165	105	135	85	130	80	110	70	86	55	76	50

Beams [MOKA XL]

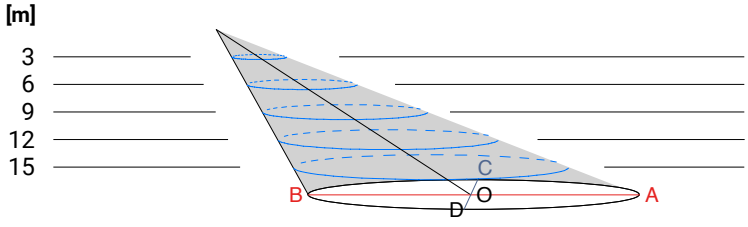
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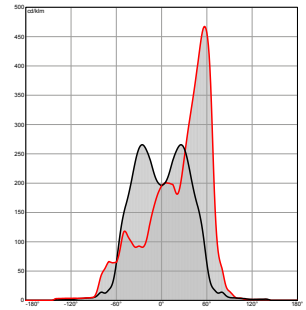




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1100	210	920	180	850	165	720	140
6	275	55	230	45	210	40	180	35
9	121	25	100	20	95	20	80	15
12	7	15	60	11	55	10	45	10
15	45	8	40	8	35	7	30	6

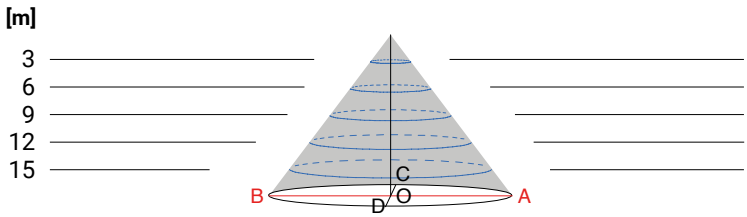
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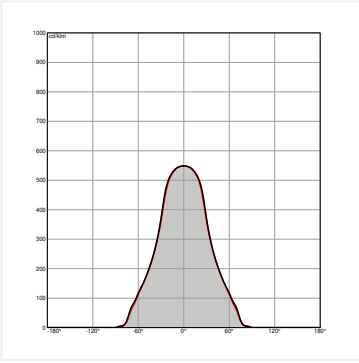




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	1220	245	1025	205	945	190	800	160
6	305	60	260	51	240	47	200	40
9	140	30	115	25	105	21	90	18
12	76	15	65	13	60	12	50	10
15	50	10	41	8	38	7	32	6

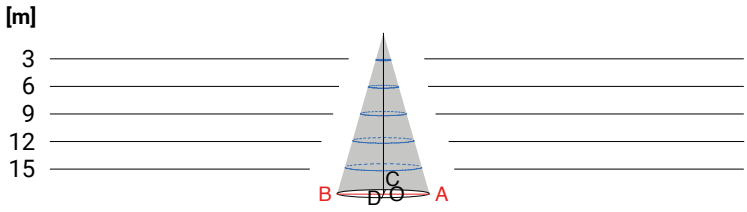
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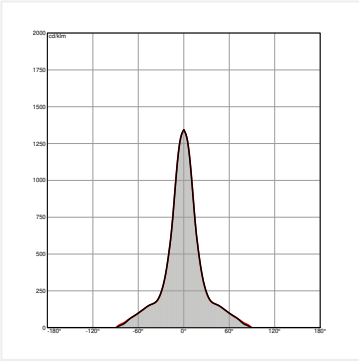




	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	3485	1625	2840	1320	2705	1260	2295	1070
6	870	405	710	330	675	315	575	270
9	390	180	315	150	300	140	255	120
12	220	100	180	85	170	80	145	70
15	140	65	115	55	110	50	95	45

C [OPTIC]



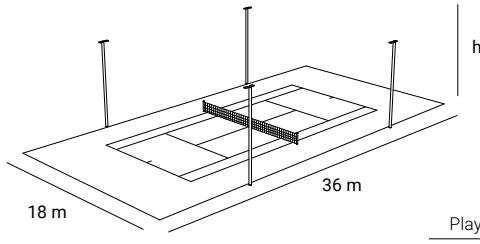


	KMK48022		KMK48018		KMK46017		KMK46014	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	8250	5150	6655	4155	6385	3990	5425	3385
6	2060	1290	1665	1040	1595	445	1355	850
9	915	570	740	465	710	445	600	375
12	515	320	420	260	400	250	340	215
15	330	205	265	165	255	160	220	135

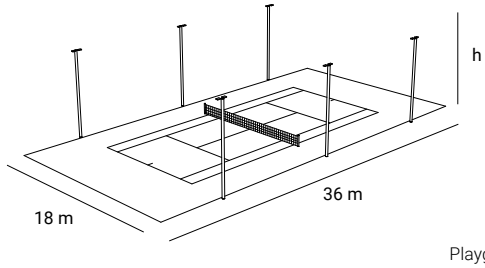
Application (Tennis Court)



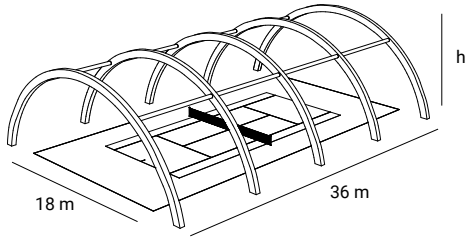
Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	4 x h= 8 m	165 Lx	no.8 KMK26014AS2N
23,8x10,8 m	4 x h= 8 m	200 Lx	no.8 KMK26017AS2N
23,8x10,8 m	4 x h= 8 m	250 Lx	no.8 KMK28022AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
23,8x10,8 m	6 x h= 8 m	300 Lx	n.12 KMK26017AS2N
23,8x10,8 m	6 x h= 10 m	500 Lx	n.12 KMK46017AS2N



Playground Area	Lines	Lux Value Result	Light Fittings Required
23,8x10,8 m	2x5 pezzi x h= 7,5 m	300 Lx	n.10 KMK26017AS2N

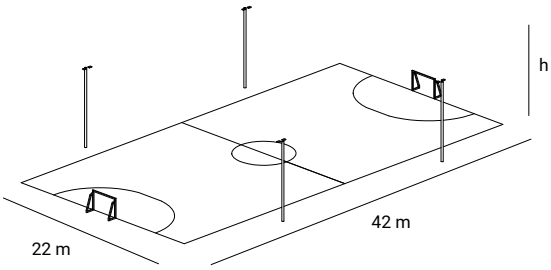


Norm	Activity	Illuminance Required
-	Not Competitive	<200 Lx
Coni CN 1379-2008	Competitive Level 1	200 Lx
Coni CN 1379-2008	Competitive Level 2	300 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

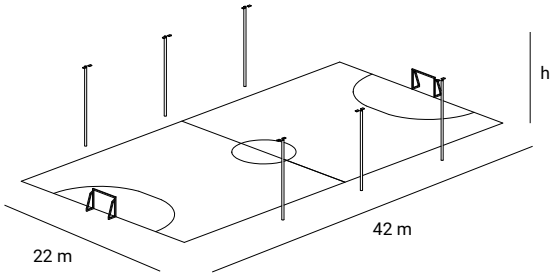
Application (Futsal)



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	4 x h= 9 m	100 Lx	n.8 KMK26017AS2N
42x22 m	4 x h= 9 m	200 Lx	n.8 KMK46017AS2N



Playground Area	Poles	Lux Value Result	Light Fittings Required
42x22 m	6 x h= 10 m	130 Lx	n.12 KMK26017AS2N
42x22 m	6 x h= 10 m	250 Lx	n.12 KMK46017AS2N

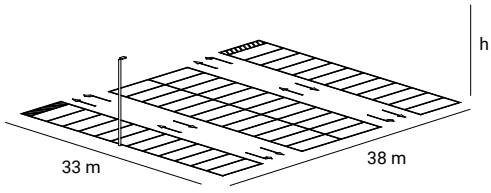


Norm	Activity	Light Fittings Required
-	Not Competitive	<100 Lx
Coni CN 1379-2008	Competitive Level 1	100 Lx
Coni CN 1379-2008	Competitive Level 2	200 Lx
Coni CN 1379-2008	Competitive Level 3	500 Lx

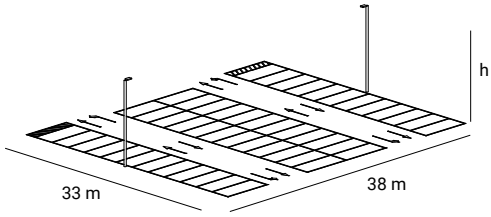
Application (Parking)



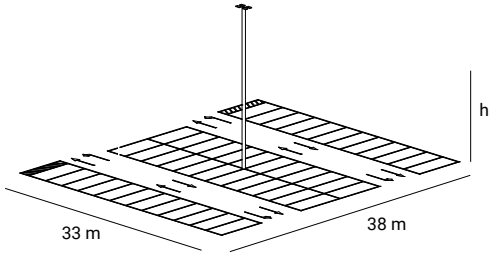
Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 8 m	5 Lx	n.1 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	2 x h= 8 m	10 Lx	n.2 KMK26014AS2N



Parking Area	Poles	Lux Value Result	Light Fittings Required
33x38 m	1 x h= 15 m	20 Lx	n.4 KMK26014AS2N



Norm	Activity	Light Fittings Required
UNI EN12464	Light Traffic	5 Lx
UNI EN12464	Medium Traffic	10 Lx
UNI EN12464	Heavy Traffic	20 Lx











GRUPPO RAINA
L'unione fa la luce.



GURU AS-R

GURU AS-R





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
2,5 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer.Complete with outgoing cable L= 600 mm. LED light source Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Fornito completo di cavo uscente l=600 mm. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent. Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Fourni de câble sortant L=600 mm.Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Se suministra completo con cable saliente L=600 mm. Fuente de luz LED. Emisión directa.

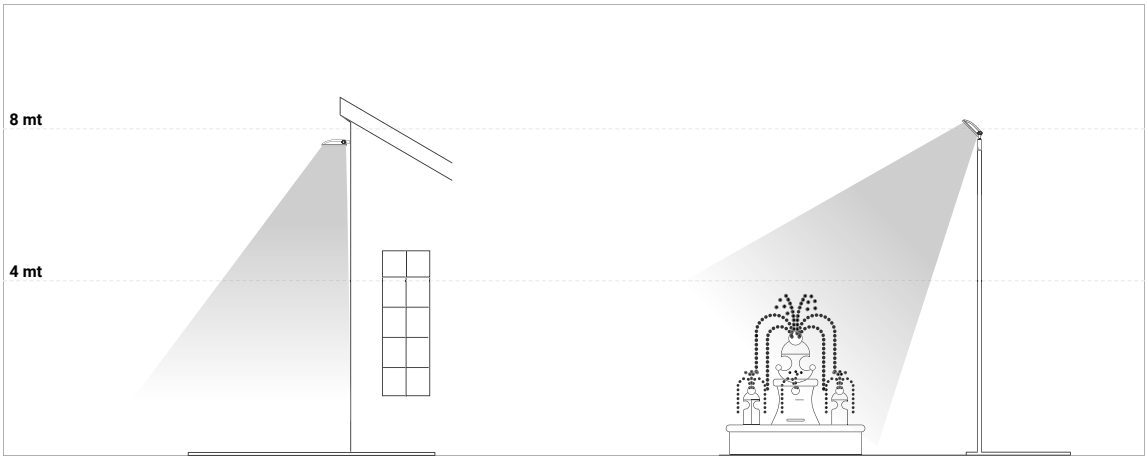
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Komplett mit abgehendem Kabel L = 600 mm. LED-Lichtquelle. Direkte Lichtemission.

RU

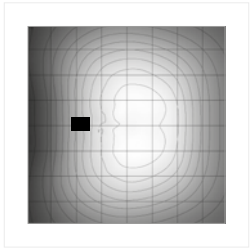
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром.В комплекте с исходящим кабелем L = 600 мм
Светодиодный источник света. Прямой поток света.

GURU

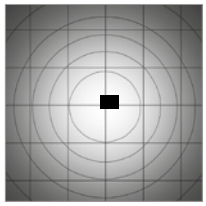


GURU [AS]

GURU [R]



GURU AS



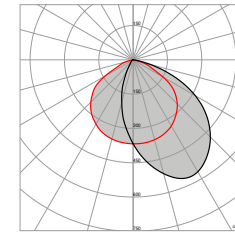
GURU R

GURU AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005ASW/N**08**	3190	2165	18	> 121	HG80
KGU14007ASW/N**08**	4400	2980	26	> 114	HG80
KGU14008ASW/N**08**	4980	3490	31	> 112	SAP70
KGU14010ASW/N**08**	6110	4330	40	> 108	HG125
KGU14014ASW/N**08**	8250	5595	54	> 104	SAP100
KGU18016ASW/N**08**	13800	9365	90	> 105	HG400
KGU24010ASW/N**08**	11450	8885	81	> 110	JM250

W/N= **W** (3000 K) | **N** (4000 K)



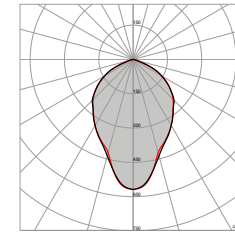
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGU14005RW/N**08**	3190	2515	18	> 139	HG80
KGU14007RW/N**08**	4400	3460	26	> 133	HG80
KGU14008RW/N**08**	4980	4010	31	> 129	SAP70
KGU14010RW/N**08**	6110	5020	40	> 125	HG125
KGU14014RW/N**08**	8250	6520	54	> 120	SAP100
KGU18016RW/N**08**	13800	10860	91	> 120	HG400

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

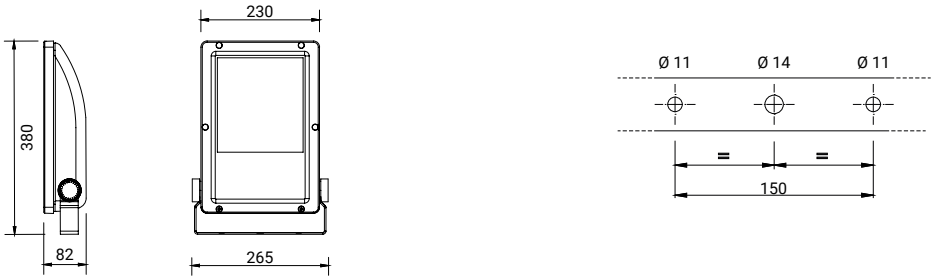
Code

Code Ordering example: **KGU14005** **AS** W/N **08**

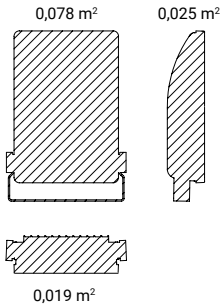
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KGU14005**

GURU AS-R

DIMENSIONAL + FIXTING

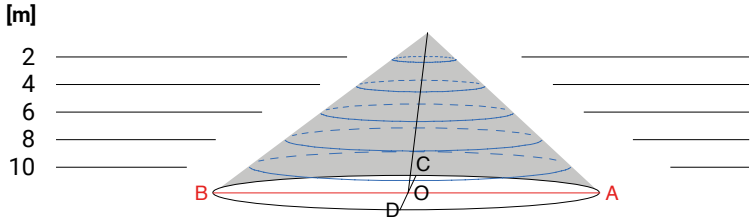


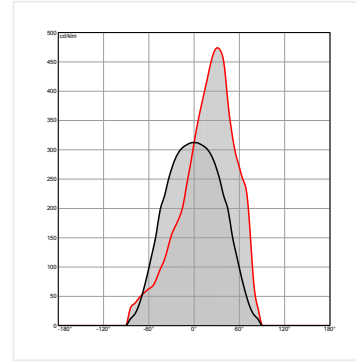
WIND RESISTANCE



WEIGHT (Kg)	MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)
5,0	**-20 ~ +45°C**

AS [OPTIC]

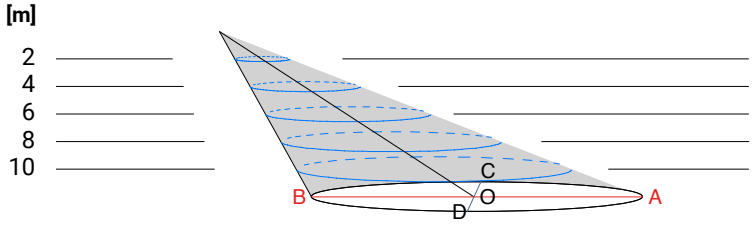


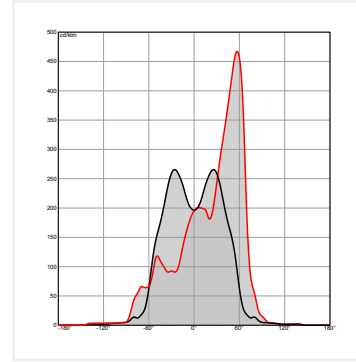


	KGU14005AS		KGU14007AS		KGU14008AS		KGU14010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	230	30	320	40	375	45	460	55
4	60	8	80	10	95	12	115	15
6	26	3	35	4	40	5	50	6
8	-	-	-	-	-	-	30	3
10	-	-	-	-	-	-	-	-

	KGU14014AS		KGU24010AS		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	600	75	950	115	1000	125
4	150	20	240	30	250	30
6	70	10	105	13	110	15
8	40	5	60	7	65	8
10	25	3	38	4	40	5

R [OPTIC]





	KGU14005R		KGU14007R		KGU14008R		KGU14010R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
2	360	140	495	195	570	225	715	280
4	90	35	125	50	145	60	180	70
6	40	16	55	22	65	25	80	31
8	22	9	31	12	40	14	45	18
10	14	6	20	8	25	10	30	11

	KGU14014R		KGU18016AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
2	930	365	1550	610
4	235	90	390	155
6	105	40	175	70
8	60	25	100	40
10	40	15	65	25



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)


COLOMBO
GRUPPO RAINA



GURU PRO AS-R

GURU PRO AS - R





	CE		>80 CRI	W 3000 K	N 4000 K	IP65 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 09 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471
6 Kv				CAE ON/OFF	08 BLACK METALLIZED	5Y WARRANTY 5% FAILURE RATE		60.000 h LED LIFETIME L90B10				

EN

Die-cast aluminum body painted with epoxy powders after phosphating. Shape and dimensions designed to obtain a reduced wind exposure surface. Transparent tempered glass cover resistant to thermal shocks. Bent steel adjustable bracket painted with epoxy powders after phosphating complete with goniometer. IP66 quick plug-in connector for power line included. High frequency (CAE) ballast in separate IP65 box fixed to the body. LED light source. Direct light emission.

IT

Corpo in alluminio pressofuso verniciato con polveri epossidiche previa fosfatazione. Sagoma e dimensioni progettate per ottenere una superficie d'esposizione al vento ridotta. Schermo di protezione in vetro temperato trasparente resistente agli shock termici. Staffa regolabile in acciaio pressopiegato verniciata con polveri epossidiche previa fosfatazione, completa di goniometro. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Connettore rapido IP66 per linea di alimentazione incluso. Sorgente luminosa LED. Emissione diretta.

FR

Corps en aluminium moulé sous pression, peinture à base de poudre époxyde garantie anticorrosion, traitement de surface No-Rinse. Forme et dimensions optimisées pour diminuer la surface d'exposition au vent Ecran de protection en verre trempé résistant aux chocs thermiques. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Connecteur rapide IP66 pour ligne électrique incluse. Alimentation électronique CAE externe IP65 fixée au corps. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Source lumineuse LED. Emission directe.

ES

Carcasa de aluminio fundido a presión y barnizado con polvos epoxidicos previa fosfatación. Forma y dimensión diseñados para conseguir una superficie reducida de resistencia al viento. Vidrio templado transparente antichoque térmico. Soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Conector rápido IP66 para alimentación incluido. Alimentación electrónica CAE externa, IP65 fijada al cuerpo. Fuente de luz LED.
Emisión directa.

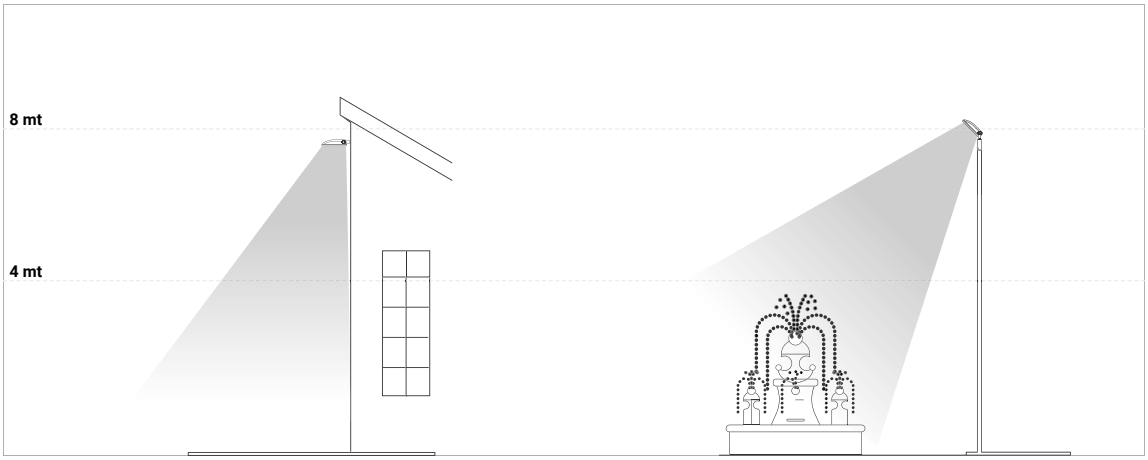
DE

Körper aus Aluminium-Druckguss, das nach der Phosphatierung mit Epoxidpulver lackiert wurde. Entworfene Form und Abmessungen für eine reduzierte Windfläche. Schutzscheibe aus transparentem Hartglas, beständig gegen Thermoschocks. Verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer Direkte Ausgabe. IP66-Schnellverbinder für Stromleitung enthalten Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt. LED-Lichtquelle. Direkte Lichtemission.

RU

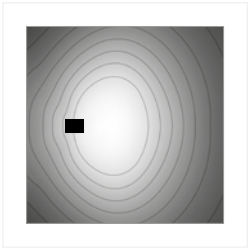
Корпус из фосфатированного литого алюминия окрашенного эпоксидными порошковыми красками. Форма и размеры спроектированы для получения уменьшенной ветровой нагрузки на поверхность. Защитный экран из прозрачного закаленного стекла, устойчивого к термошоку. Регулируемая кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Быстроразъемное соединение IP66 для линии электроподключения включено в комплект. Светодиодный источник света. Прямой поток света.

GURU PRO

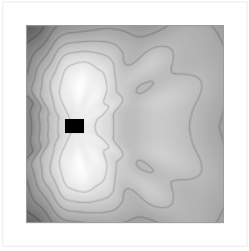


GURU PRO [AS]

GURU PRO [R]



GURU PRO AS



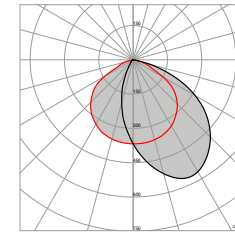
GURU PRO R

GURU PRO AS



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016ASW/N**08**	13500	9155	95	> 97	SAP150
KGP16018ASW/N**08**	14900	10100	107	> 95	JM250
KGP18022ASW/N**08**	18300	12410	132	> 94	HG400
KGP18027ASW/N**08**	21730	14730	160	> 92	HG400
KGP24010ASW/N**08**	12780	8870	80	> 110	SAP150
KGP24014ASW/N**08**	16495	11185	90	> 108	JM250
KGP26008ASW/N**08**	14550	9870	90	> 109	JM250
KGP26010ASW/N**08**	18660	12650	120	> 105	HG400
KGP26014ASW/N**08**	24080	16990	165	> 102	SAP250
KGP28017ASW/N**08**	29160	19775	198	> 100	JM400

W/N= **W** (3000 K) | **N** (4000 K)



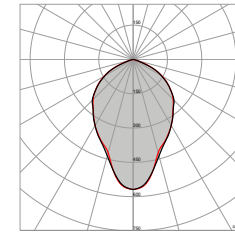
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

GURU PRO R



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KGP16016RW/N**08**	13500	10620	95	> 112	JM250
KGP16018RW/N**08**	14900	11720	107	> 110	HG400
KGP18022RW/N**08**	18300	14395	132	> 109	HG400
KGP18027RW/N**08**	21730	17090	160	> 107	SAP250

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

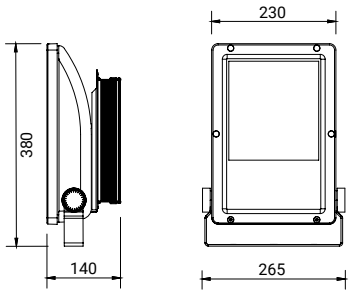
Code

Code Ordering example: **KGP16016** **AS** W/N **08**

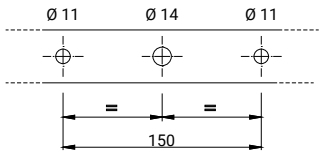
- Product colour: **08** Black Metalizzed
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KGP16016**

GURU PRO AS-R

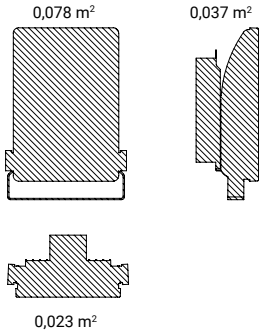
DIMENSIONAL



FIXTING



WIND RESISTANCE



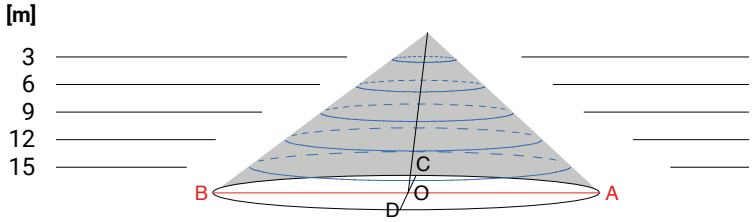
WEIGHT (Kg)

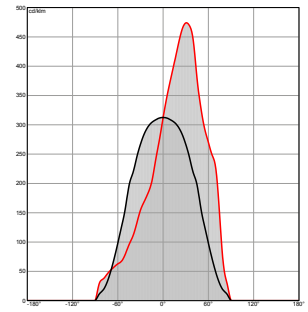
6,0

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

-20 ~ +45°C

AS [OPTIC]



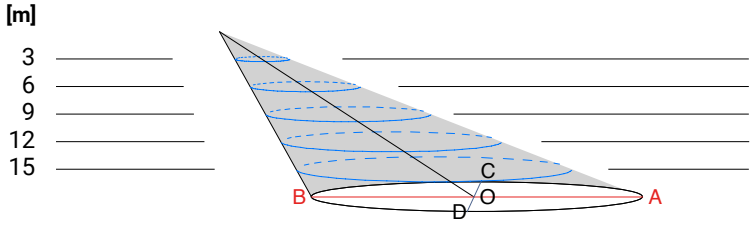


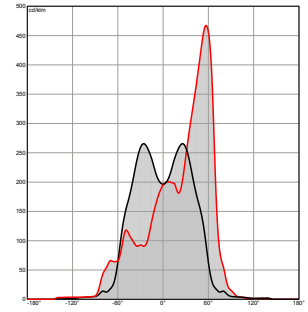
	KGP16016AS		KGP16018AS		KGP18022AS		KGP18027AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	433	52	478	58	587	71	697	84
6	108	13	120	14	147	18	174	21
9	48	6	53	6	65	8	77	9
12	-	-	30	4	37	4	44	5
15	-	-	-	-	-	-	-	-

	KGP24010AS		KGP24014AS		KGP260008AS		KGP26010AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	420	51	529	64	467	56	599	72
6	105	13	132	16	117	14	150	18
9	47	6	59	7	52	6	67	8
12	-	-	33	4	29	4	37	5
15	-	-	-	-	-	-	-	-

	KGP26014AS		KGP28017AS	
[m]	Max Lux	Med Lux	Max Lux	Med Lux
3	773	93	936	113
6	193	23	234	28
9	86	10	104	13
12	48	6	58	7
15	31	4	37	5

R [OPTIC]





	KGP16016R		KGP16018R		KGP18022R		KGP18027R	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
3	690	275	750	300	940	370	1100	430
6	175	70	190	75	235	95	275	110
9	75	30	85	35	105	45	125	45
12	45	18	50	20	60	25	70	30
15	28	10	30	12	40	15	45	18



KT6010
Bracket for top installation 0°-90° (post ø 60)
Staffa per installazione cima palo 0°-90° (palo Ø 60)
Support pour installation en tête de mât (mât Ø 60)
Soporte para instalación con columna (columna Ø 60)
Halterung für Mastkopfmontage (Mast Ø 60)
Кронштейн для монтажа на столбе под углом 0° -90° (Ø столба 60)



KT6020
Double bracket for top installation 0°-90° (post Ø 60)
Staffa per installazione cima palo doppia 0°-90° (palo Ø 60)
Support double pour installation en tête de mat (mat Ø 60)
Soporte doble para instalación a columna (columna Ø 60)
Doppelhalterung für Mastkopfmontage (Mast Ø 60)
Двойной кронштейн для монтажа на столбе под углом 0 ° -90 ° (Ø столба 60)



KT6110
Single outreach (post Ø 60)
Sbraccio singolo (palo Ø 60)
Support simple (mat Ø 60)
Divulgación sola (columna Ø 60)
Single Outreach (Mast Ø 60)
Единый охват (Ø столба 60)



KT6120
Double outreach (post Ø 60)
Sbraccio doppio (palo Ø 60)
Double support (mat Ø 60)
Divulgación doble (columna Ø 60)
Double Outreach (Mast Ø 60)
Двойной охват (Ø столба 60)



KATRD
Adaptor for post top installation (post Ø 60)
Adattore per installazione cima palo (palo Ø 60)
Adaptateur pour installation en tête de mat (mat Ø 60)
Adaptator para instalación a columna (columna Ø 60)
Adapter für Mastaufstellung (Mast Ø 60)
Адаптер для установки на верхушку столба (Ø столба 60)



GRUPPO RAINA
L'unione fa la luce.



ASSO

ASSO



	CE		>70 CRI	W 3000 K	N 4000 K	IP66 EN 60529	230 V 2014/35/UE	50/60 Hz	IK 06 EN 60068	850° EN 60695	A++ A+ A	RG 0 EN 62471

6 Kv			CAE ON/OFF	02 BLACK	5Y WARRANTY 5% FAILURE RATE	60.000 h LED LIFETIME L90B10	

EN

Extruded anodized aluminum body with heat-sink function. Bent steel adjustable bracket and frame painted with epoxy powders after phosphating complete with goniometer. Direct light emission. LED light source. Molded PMMA optics with high optical efficiency. High frequency (CAE) ballast in separate IP65 box fixed to the body.

ES

Cuerpo en aluminio extruido anodizado con función de disipador. Marco y soporte regulable de acero plegado a presión barnizado con polvo epoxi previamente fosfatado, completo de goniómetro. Emisión directa. Fuente de luz LED. Óptica en metracrilato (PMMA) estampado de alta eficiencia óptica. Alimentación electrónica CAE externa, IP65 fijada al cuerpo.

IT

Corpo in alluminio estruso anodizzato con funzione di dissipatore. Telaio e staffa regolabile, completa di goniometro, in acciaio pressopiegato verniciati con polveri epossidiche previa fosfatazione, . Ottiche in PMMA stampato ad alto rendimento ottico. Alimentazione elettronica CAE esterna, IP65 fissata al corpo. Emissione diretta. Sorgente luminosa LED.

DE

Körper aus eloxiertem extrudiertem Aluminium mit Kühlkörperfunktion. Rahmen und verstellbare Halterung aus gepresstem Stahl, der nach der Phosphatierung mit Epoxidpulver lackiert wurde, komplett mit Goniometer. Direkte Lichtemission. LED-Lichtquelle. Direkte Ausgabe. Optik aus gegossenem PMMA mit hoher optischer Effizienz. Externe elektronische Stromversorgung, IP65 am Gehäuse befestigt.

FR

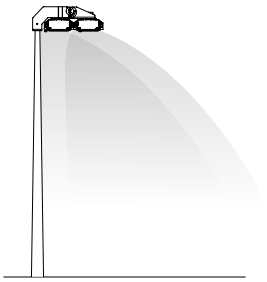
Corps en aluminium extrudé et anodisé avec fonction de dissipateur. Support de fixation reglable, pliée à la presse, en acier traité avec peinture epoxy pulvérisé par phosphatation. Emission directe. Source lumineuse LED. Optiques en PMMA à haute résistance aux températures et haut rendement optique. Alimentation électronique CAE externe IP65 fixée au corps.

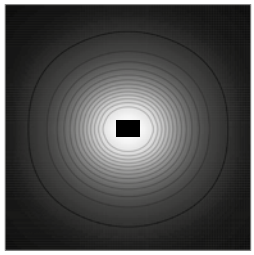
RU

Анодированный экструдированный алюминиевый корпус с функцией радиатора. Регулируемая рама и кронштейн из гнутой фосфатированной стали, окрашенные эпоксидными красками-порошками, в комплекте с транспортиром. Прямой поток света. Светодиодный источник света. Оптика из ПММА с высокой оптической эффективностью. Внешний электронный блок питания CAE, IP65 закреплен на корпусе.

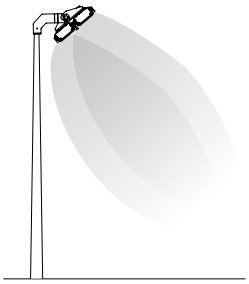
Beams [ASSO 96-120-180-216]

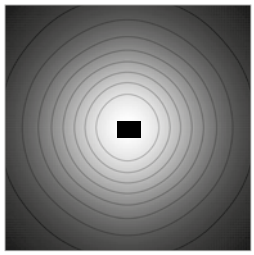
S [OPTIC]



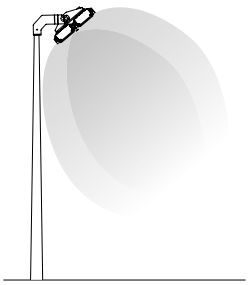


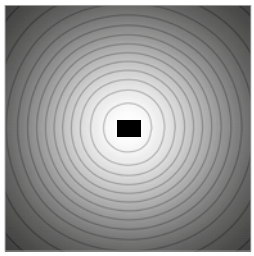
M [OPTIC]



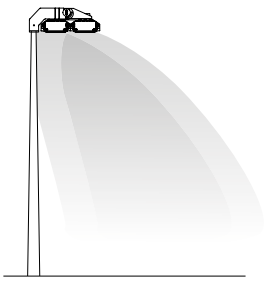


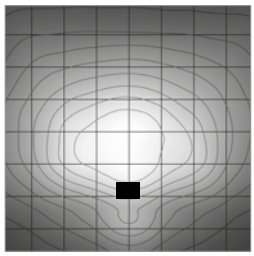
D [OPTIC]





T4 [OPTIC]



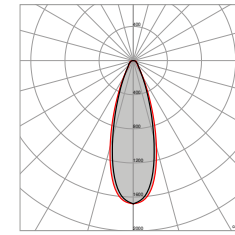


ASSO 96 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96SW/N**02**	64475	60540	455	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



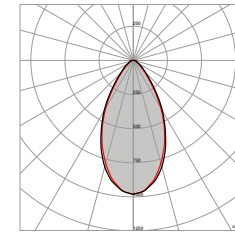
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96MW/N**02**	64475	60050	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



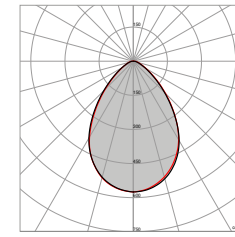
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96DW/N**02**	64475	61150	455	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



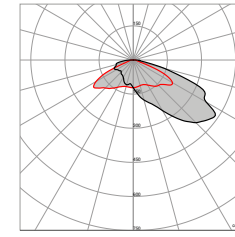
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 96 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS96TW/N**02**	64475	59960	455	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS96** **S** W/N **02**

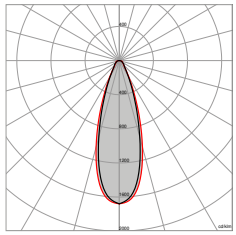
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS96**

ASSO 120 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120SW/N**02**	80590	75670	569	> 133	1000

W/N= **W** (3000 K) | **N** (4000 K)



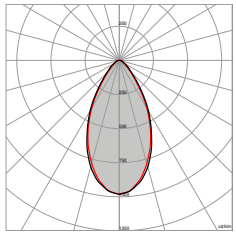
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120MW/N**02**	80590	75050	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



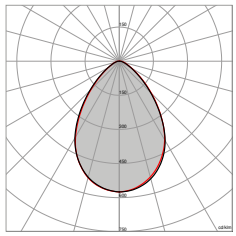
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120DW/N**02**	80590	76440	569	> 134	1000

W/N= **W** (3000 K) | **N** (4000 K)



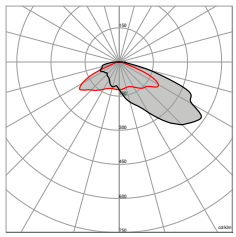
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 120 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS120TW/N**02**	80590	74950	569	> 132	1000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS120** **S** W/N **02**

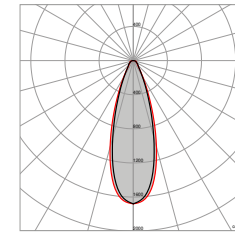
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS120**

ASSO 180 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180SW/N**02**	120890	113505	854	> 133	1500

W/N= **W** (3000 K) | **N** (4000 K)



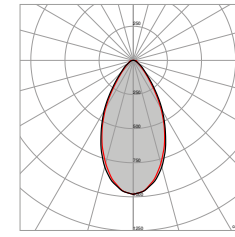
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180MW/N**02**	120890	112580	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



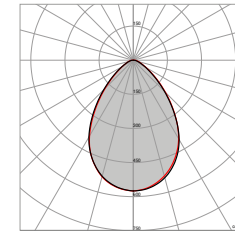
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180DW/N**02**	120890	114670	854	> 134	1500

W/N= **W** (3000 K) | **N** (4000 K)



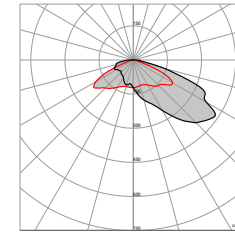
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 180 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS180TW/N**02**	120890	112430	854	> 132	1500

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

Code

Code Ordering example: **KSS180** **S** W/N **02**

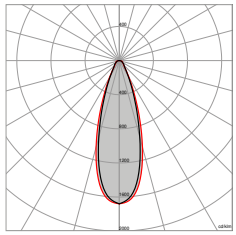
- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS180**

ASSO 216 S



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216SW/N**02**	145060	136205	1025	> 133	2000

W/N= **W** (3000 K) | **N** (4000 K)



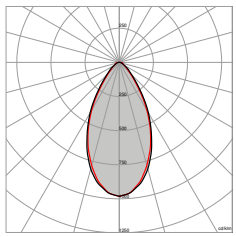
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 M



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216MW/N**02**	145060	135100	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



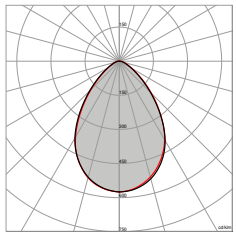
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 D



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216DW/N**02**	145060	137595	1025	> 134	2000

W/N= **W** (3000 K) | **N** (4000 K)



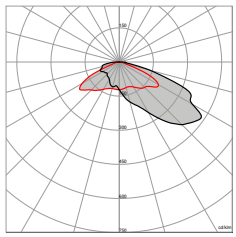
Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

ASSO 216 T4



Code	Lm LED	Lm Out	Watt Out	Lm Watt Out	Relamping
KSS216TW/N**02**	145060	134900	1025	> 132	2000

W/N= **W** (3000 K) | **N** (4000 K)



Lm Led/Lm Out:
Standard - **N** (4000 K)
-8% - **W** (3000 K)

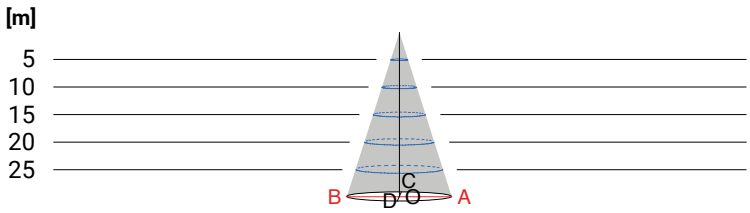
Code

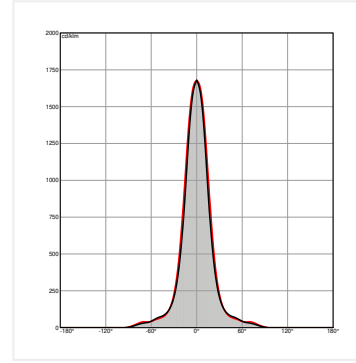
Code Ordering example: **KSS216** **S** W/N **02**

- Product colour: **02** Black
- Colour Temperature: **W** 3000 K - **N** 4000 K
- Optic type
- Product Code: **KSS216**

Beams [ASSO 96-120-180-216]

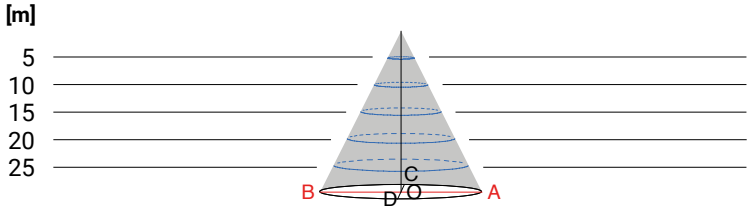
S [OPTIC]

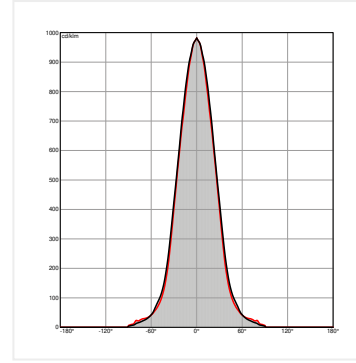




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	4360	2625	5450	3232	-	-	-	-
10	1100	660	1365	820	2050	1231	2450	1480
15	485	290	605	365	910	550	1090	656
20	275	165	340	205	510	310	615	370
25	175	105	220	130	330	200	395	240

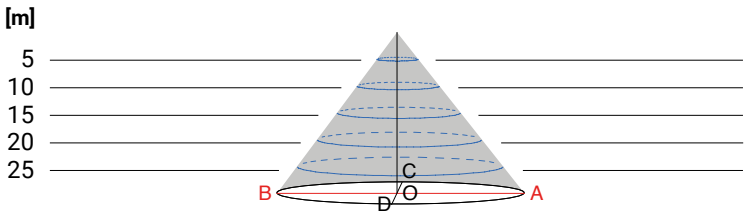
M [OPTIC]

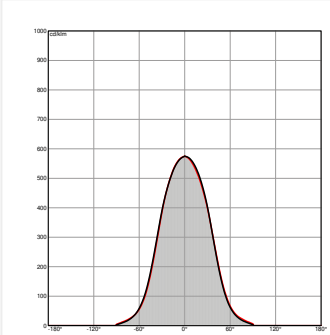




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	2550	1315	3180	1650	4770	2470	-	-
10	640	330	795	415	1200	620	1430	740
15	285	150	355	185	530	275	640	330
20	160	85	200	105	300	155	360	185
25	105	55	130	70	190	100	230	120

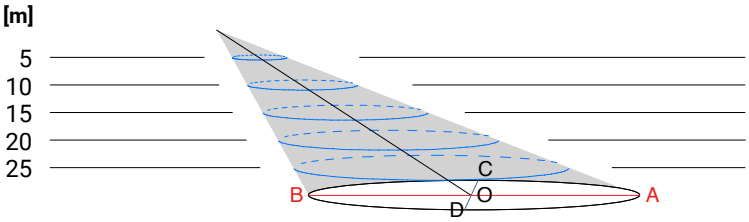
D [OPTIC]

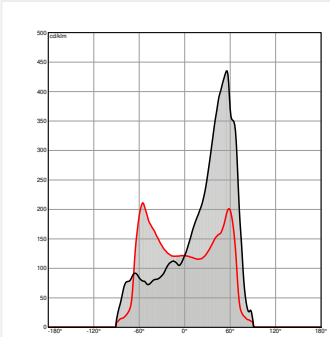




	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	1485	670	1855	840	2780	1260	3340	1510
10	370	170	465	210	695	315	835	380
15	165	75	205	95	310	140	370	170
20	95	45	120	55	175	80	210	95
25	60	30	75	35	115	50	135	60

T4 [OPTIC]



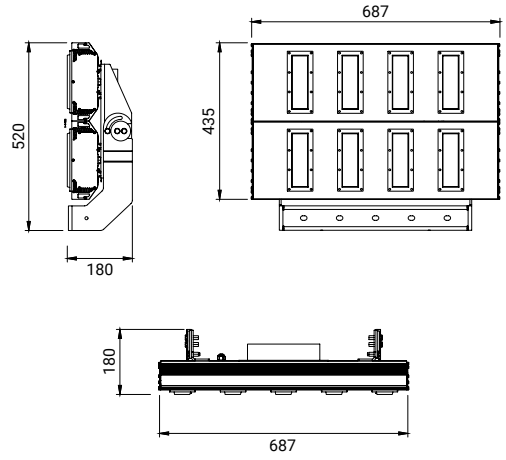


	KSS96		KSS120		KSS180		KSS216	
[m]	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux	Max Lux	Med Lux
5	430	85	540	110	810	160	920	145
10	110	21	135	30	205	40	230	35
15	50	9	60	12	90	18	105	20
20	27	5	35	7	50	10	57	12
25	17	3	22	4	32	6	37	8

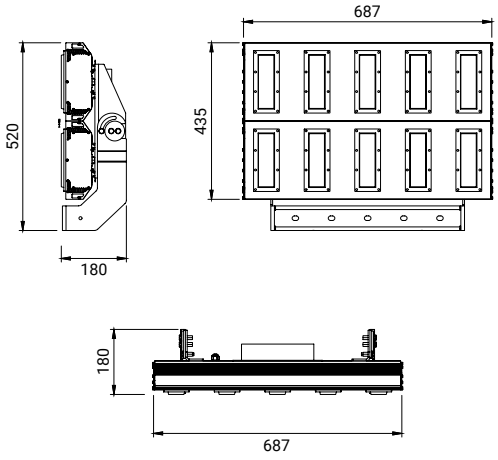
ASSO 96 - 120

DIMENSIONAL

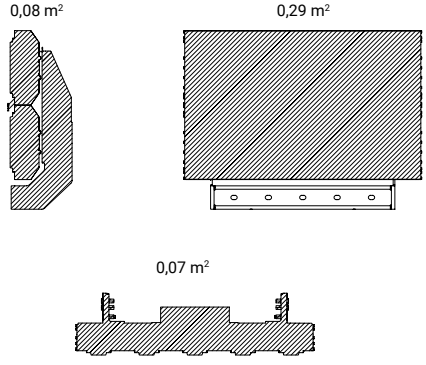
ASSO 96

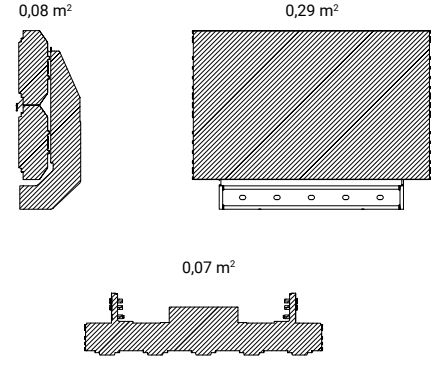


ASSO 120



WIND RESISTANCE





WEIGHT (Kg)

ASSO 96: **26,0** - ASSO 120: **26,0**

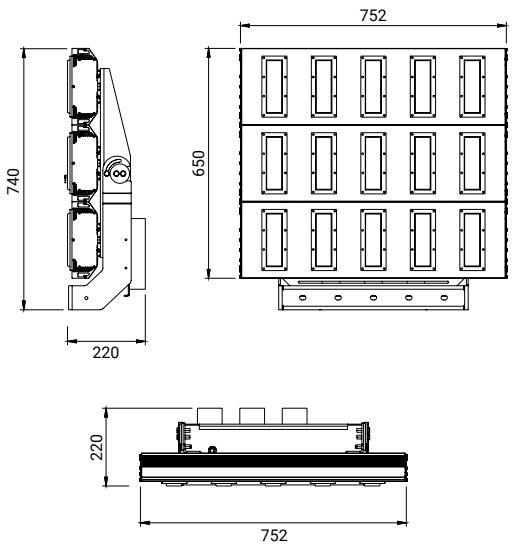
MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 96 - 120: **-20 ~ +45°C**

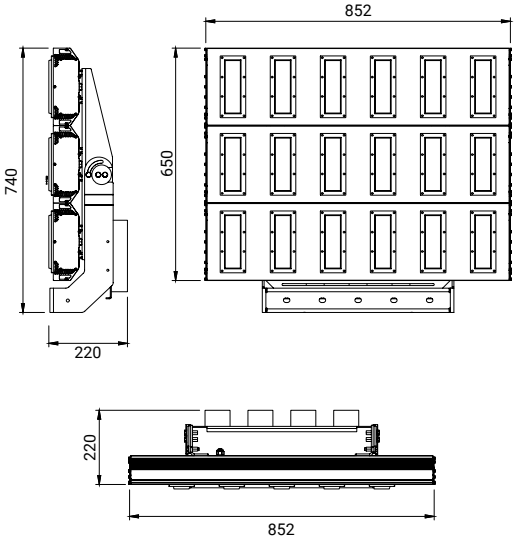
ASSO 180 - 216

DIMENSIONAL

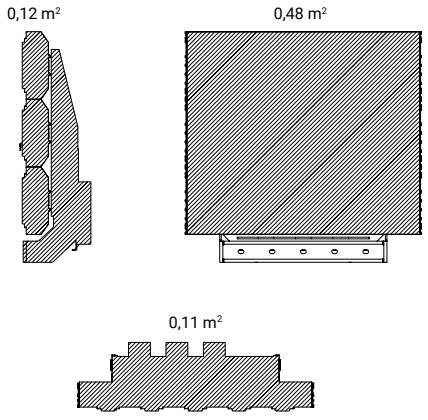
ASSO 180

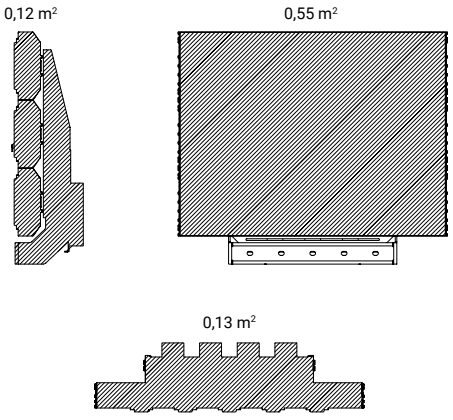


ASSO 216



WIND RESISTANCE





WEIGHT (Kg)

ASSO 180: **45,0** - ASSO 216: **50,0**

MINIMUM AND MAXIMUM ENVIRONMENT TEMPERATURE (Ta)

ASSO 180 - 216: **-20 ~ +45°C**

GRUPPO RAINA

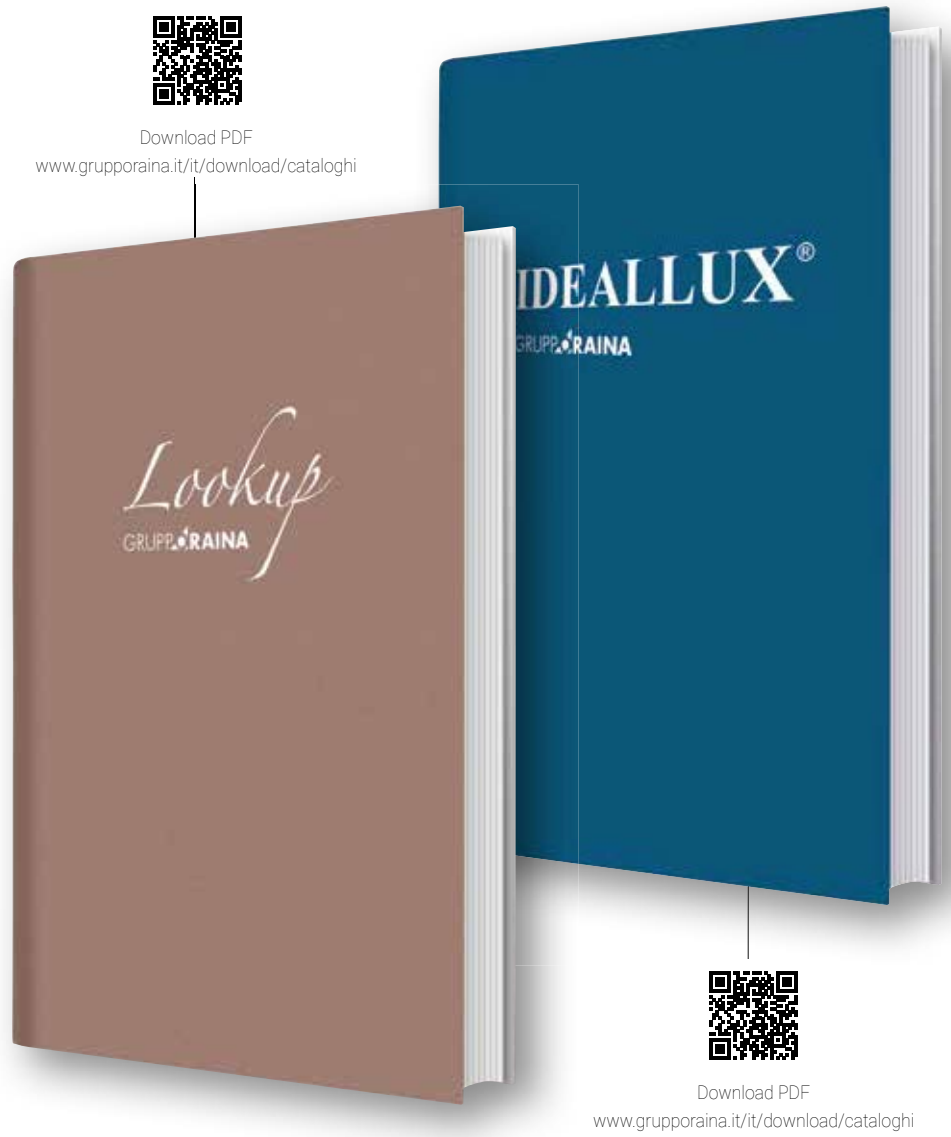
L'unione fa la luce.

IDEALLUX®

Lookup

COLOMBO

LOOKUP® - IDEALLUX® PRESENTATION



EN
IDEALLUX® historic production specializing in the manufacture and sale of lighting fittings for the industrial and tertiary sector. LOOKUP® new and wide range of decorative and architectural appliances.

IT
IDEALLUX® produzione storica specializzata nella realizzazione e vendita di apparecchi destinati ai settori dell'industria e del terziario. LOOKUP® nuova e ampia gamma di apparecchi decorativi e architetturali.

FR
IDEALLUX® production historique spécialisée dans la fabrication et la vente d'appareils destinés aux secteurs industriels et du tertiaire. LOOKUP® nouvelle et ample gamme d'appareils décoratifs et architecturaux.

ES
IDEALLUX® producción histórica especializada en la fabricación y venta de luminaria para los sectores industriales y terciario. LOOKUP® nueva y amplia gama de luminarias decorativas y arquitectónicas.

DE
IDEALLUX® historische Produktion, spezialisiert auf die Herstellung und den Verkauf von Leuchten für die Industrie und tertiären Sektors. LOOKUP® neue und breite Palette dekorativen und architektonischen Geräten.

RU
Историческое производство IDEALLUX®, специализирующееся на производстве и продаже устройств для промышленного сектора и третичного сектора. LOOKUP® с его новым и широким ассортиментом декоративных и архитектурных приборов.

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PRODUCTS

SUSPENSION


Aquadro i-L


Eliot i-L


Nori i-L


Jeè i-L


Squak


Loft


Maciste


Round


Round IP55


Arrondo


Ufo


Tubì CM-S

Adalpina


Circo


Olimpia


Libra


Opalia i-L


Bolerino

WALL


Alba


Tink


Faces M


Calea


Zoe M - Zoe


Talè M - Talè


Ester


Dudu


Dosi


Gina


Malì S-AM


Leila


Norton


Pia


Trem


Bombei M


Pla

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CATALOGUE PRESENTATION

PRODUCTS

FLOOR



Amadeus



Silence



Utile



Zero



Birba



Furba

RECESSED



Demi Led



Sei



Uno



Rio



Nero



Hollow

TABLE LAMP



Lina



Squadra



Sphere



Stilo

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PRODUCTS

A SUSPENSION | CEILING RECESSED | TRIMLESS | CONTINUOS LINE


Algebra OP


Algebra MP


Algebra Small OP


Algebra Small MP


Algebra Micro OP


Algebra Micro MP


Algebra System OP


Algebra System MP


Algebra System Small OP


Algebra System Small MP


Algebra System Micro OP


Algebra System Micro MP


Giunti Luminosi
A.S. OP/MP


Giunti Luminosi
A.S. SMALL OP/ MP


Giunti Luminosi
A.S. MICRO OP/ MP

B SUSPENSION | CEILING | WALL


Flooting Led
Dir.


Flooting Led
Dir./Ind.


Flat Line Led Dark-Dir.


Flat Line Led Dark-Dir./Ind.


Relax Led Spa


Relax Led Spa R


Relax Led


Relax Led R


BB Teck


BB Led


Flat Smash Led


Gardena Led

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

C DECORATIVE SUSPENSION | CEILING



Basket Led
Basket Led IP 55



Jerrimo



Plato



Luly Shop



Bolero Shop



Coco Led

D LED LIGHT BATTEN " EXTENDABLE”



Dedica HF



Dedica ASL HF



Profili HF



Rek Led

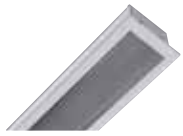


Rek Led Sensor

E RECESSED



Alg Up OP



Alg Up MP



Alg Up Small
OP



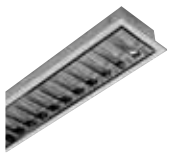
Alg Up Small
MP



Alg Up Micro
OP



Alg Up Micro
MP



Controled EB Dark



Controled EB UGR



Controled EB
OPAL



Controled SPA



Controled SPA
2 Luci



Controled SPA R

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PRODUCTS

E RECESSED


Contro Flat Led MP


Moreflat MP


Controplus UGR

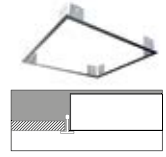

Controplus OPAL


Controplus R UGR


Controplus R OPAL


Compatta UGR


Contro Clip-In UGR


Telai/*Frames*

Adrian

Adrian UGR

F RECESSED DOWNLIGHT


Clock Led S


Clock Led T


Clock Led MP


New Remisi 230 (S)


New Remisi 230 (M)


New Remisi 200 (S)


New Remisi 200 (M)


Doria 230 (VS)


Doria 190 (VS)


Spotled OP


Spotled MP


Inca 150


Inca 125


New White 230


New White 200


New White 150


Enne


Sii

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

G ADJUSTABLE RECESSED


Automa Led (1)


Automa Led (2)


Automa Led (3)


Giro Led (1)


Giro Led (2)


Giro Led (3)


Mini Giro


Roller Led


Mini Automa Led (1)


Mini Automa Led (2)


Mini Automa Led (3)


Rumba Led


Flamenko Led


Jwe Led


Mambo Led

H TRACK LIGHTS


Beba


Lerica


Vale


Don


Smile


Binario Dali

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PRODUCTS

CONTINUOS LINE SYSTEMS


Bingo Led


Bingo System Led


Bingo System Led Plus


Binlens System EX


Binlens System ST


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INDUSTRIAL & COMMERCIAL


AMBI U


AMBI I


Futura


Futura Plus


Futura Small


Futura IP55D


Dundi LED


DN Led


Essential COB


Essential


Luly


Bolero


Plike R


Plike Q


Sottile R


Sottile Q

IDEALLUX® CATALOGUE PRESENTATION

PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

INNOVA XL



Innova XL 1500
Satinato/*Satin*



Innova XL 1200
Satinato/*Satin*



Innova XL SM 600
Satinato/*Satin*



Innova XL 1500
Opale/*Opal*



Innova XL 1200
Opale/*Opal*



Innova XL
INTENSIVE



Innova XL DARK



Innova XL
SAHARA +70°C

INNOVA



Innova
VARIO KELVIN®



Innova MEGA
1500
Satinato/*Satin*



Innova MEGA
1200
Satinato/*Satin*



Innova MEGA 1500
Opale/*Opal*



Innova MEGA
1200
Opale/*Opal*



Innova MEGA
1500
Rigato/*Ribbed*



Innova MEGA 1200
Rigato/*Ribbed*



Innova 1500
Satinato/*Satin*



Innova 1200
Satinato/*Satin*



Innova 600
Satinato/*Satin*



Innova 1500
Opale/*Opal*



Innova 1200
Opale/*Opal*

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PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

INNOVA


Innova 600
Opale/*Opal*


Innova 1500
Rigato/*Ribbed*


Innova 1200
Rigato/*Ribbed*


Innova 600
Rigato/*Ribbed*


Innova
INTENSIVE


Innova
CONCENTRANTE


Innova PARK


Innova
ASIMMETRICA


Innova ARCTIC
-25°C + 40°C


Innova ARCTIC
-40°C + 40°C


Innova SAHARA
-20°C + 70°C


Innova LONG 3000
Satinato/*Satin*


Innova LONG 2400
Satinato/*Satin*


Innova LONG 1900
Satinato/*Satin*


Innova LONG
3000
Opale/*Opal*


Innova LONG 2400
Opale/*Opal*


Innova LONG 1900
Opale/*Opal*


Innova LONG 3000
Rigato/*Ribbed*


Innova LONG 2400
Rigato/*Ribbed*


Innova LONG 1900
Rigato/*Ribbed*


Innova UT
Satinato/*Satin*


Innova UT
Opale/*Opal*


Innova 110V


Innova 48V


Innova 24V

PRODUCTS

M HIGH PROTECTION MECHANICAL WATERPROOF FIXTURE

ZITA



ZITA
Opale/*Opal*



ZITA RAPID
Opale/*Opal*



ZITA 3P
Opale/*Opal*



ZITA 5P
Opale/*Opal*



ZITA LONG 3P
Opale/*Opal*



ZITA LONG 5P
Opale/*Opal*

CHEMICAL AGENTS RESISTANCE (ART. 520)

AGENTE CHIMICO	*CHEMICAL AGENT*	POLICARBONATO (PP) | POLYCARBONATE		
		RESISTENTE *RESISTANT*	NON RESISTENTE *NOT RESISTANT*	RESISTENTE MODERATA-MENTE *MODERATELY RESISTANT*
olio diesel-nafta	*diesel-naphta*			•
olii minerali	*mineral oils*		•	
olii e grassi alimentari	*dietary oils and fats*			•
acetone	*acetone*		•	
acido acetico 10%	*acetic acid 10%*	•		
acido arsenico 10%	*arsenic acid*	•		
acido carbonico	*carbonic acid*		•	
acido citrico 20%	*citric acid 20%*	•		
acido cloridrico 1-5%	*hydrochloric acid 1-5%*	•		
acido cromico	*chromic acid*			•
acido formico 30%	*formic acid 30%*		•	
acido nitrico 20%	*nitric acid 20%*			•
acido perclorico 10%	*perchloric acid 10%*	•		
acido solforico 30%	*sulphuric acid 30%*	•		
olii siliconici	*silicone acids*	•		
alcool benzilico	*benzyl alcohol*		•	
alcool etilico	*ethylene alcohol*	•		
alcool isopropilico	*isopropyl alcohol*		•	
ammoniaca 5%	*ammonia 5%*		•	
anilina	*aniline*			•
zucchero	*sugar*			•
zolfo	*sulphur*	•		
bevande alcoliche	*alcoholic drinks*	•		
benzene	*benzene*		•	
benzolo	*benzol*		•	
bromo	*bromine*			•
bromuro di potassio	*potassium bromide*	•		
caustica potassio	*potassium caustic*		•	
cemento	*concrete*	•		
clima marino	*marine climate*	•		
cloro liquido (vapori)	*liquid chlorine*		•	
cloroformio	*chloroform*		•	
cloruro di calcio	*calcium chloride*	•		
cloruro di ferro	*iron chloride*			•
cloruro di etile	*ethyl chloride*		•	
cloruro di sodio	*sodium chloride*	•		
cloruro solforico	*sulphuric chloride*		•	
etiletere	*ethyl ether*		•	
fenolo	*phenol*	•		
benzina	*gasoline*			•
glicerina	*glycerol*			•
esano	*hexane*		•	
idrocarburi	*hydrocarbone*		•	
idrossido sodico 5%	*sodium hydroxide 5%*		•	
candeggina di soda	*soda bleach*	•		
mercurio	*mercury*		•	
metanolo	*methanol*	•		
nitrato di calcio	*calcium nitrate*	•		
nitrato di potassio	*potassium nitrate*	•		
ossigeno	*oxygen*	•		
ozono	*ozone*	•		
permanganato di potassio	*potassium permanganate*			•
petrolio	*petrolium*	•		
soda	*soda*	•		
solfato di alluminio	*aluminum sulfate*	•		
solfato di zinco	*zinc sulfate*	•		
solfato di rame	*copper sulfate*	•		
solfato di manganese	*manganese sulfate*	•		
solfato di sodio	*sodium sulfate*		•	
tetracloruro di carbonio	*carbon tetrachloride*		•	
tricloroetilene	*trichloroethylene*		•	
iodio	*iodine*		•	

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
UFFICI	***OFFICE***				
Scrittura, lettura ed elaborazione dati	*Writing, reading and data processing*	500	19	0,60	80
Postazioni CAD	*CAD workstations*	500	19	0,60	80
Disegno tecnico	*Technical design*	750	16	0,70	80
Sala conferenza e riunioni	*Conference and meeting rooms*	500	19	0,60	80
Archiviazione, copiatura, ect	*Filing, copying*	300	19	0,40	80
Banco della reception	*Reception*	300	22	0,60	80
EDIFICI SCOLASTICI	***SCHOOL BUILDINGS***				
Aule locale giochi e nido	*Classrooms games in kindergarten & nursery*	300	22	0,40	80
Aule scolastiche	*Classrooms*	300	19	0,60	80
Aule per corsi serali e per adulti, aule per educazione artistica, auditorium e aule lettura	*Classrooms in night school and adult, education drawing, auditorium and reading rooms*	500	19	0,60	80
Lavagne e schermi bianchi o verdi (illuminazione verticale)	*Blackboars and white or green screen (vertical lighting)*	500	19	0,70	80
Laboratori	*Laboratory*	500	19	0,60	80
Aule per disegno tecnico	*Classrooms for technical drawing*	750	16	0,70	80
Aula di musica e laboratori linguistici	*Music classrooms and language labs*	300	19	0,60	80
Aula di preparazione ed officine	*Classrooms of preparation and workshops*	500	22	0,60	80
Laboratorio di informatica	*Computer labs*	300	19	0,60	80
Ingressi	*Entrance*	200	22	0,40	80
Sale comuni per studenti e aula magna	*Comm. rooms for students and lobby today*	200	22	0,40	80
Sala professori	*Sale professors*	300	1	0,60	80
Magazzini materiale didattico	*Warehouses teaching materials*	100	25	0,40	80
Palazzetti, palestre e piscine (uso generale)	*Halls, gyms, swimming pools (general purpose)*	300	22	0,60	80
Mensa	*Canteen*	200	22	0,40	80
BIBLIOTECHE	***LIBRARIES***				
Scaffali (illuminamento verticale)	*Shelves (vertical lighting)*	200	25	0,40	80
Posti di servizio pubblico, lettura	*Places of service to the public*	500	22	0,60	80
RISTORANTI, HOTEL E MENSE	***RESTAURANTS, HOTEL AND CANTEEN***				
Corridoi negli hotel	*Corridors for hotel*	100	25	0,40	80
Ristoranti self-service	*Self-service restaurants*	200	22	0,40	80
Cucina	*Kitchen*	500	22	0,60	80
Sale conferenze	*Conference room*	500	19	0,40	80
ZONE DI TRANSITO E AREE GENERALI ALL'INTERNO DEGLI EDIFICI	***AREAS OF TRANSIT AND GENERAL AREAS INSIDE BUILDINGS***				
Area di passaggio e corridoi (illuminamento a pavimento)	*Passage areas and hallway (floor lighting)*	100	28	0,40	40
Scale, scale mobili, ascensori e montacarichi	*Stairs, elevators, escalators and goods lift*	100	25	0,40	40
Rampe e binari di carico	*Ramps and loading rails*	150	25	0,40	40
Locali tecnici e sala interruttore	*Technical rooms and switch room*	200	25	0,40	60
INDUSTRIALI ED ARTIGIANALI	***INDUSTRIAL AND CRAFT***				
AGRICOLTURA	***AGRICULTURE***				
Edifici per bestiame	*Buildings for cattle*	50	-	0,40	80
Carico e manovra delle merci, uso di attrezzatura	*Loading and operating goods, machinery handling*	200	25	0,40	80
Preparazione mangime, caseifici, lavaggio utensili, celle parto e zone animali	*Preparing food, dairy, washing utensils, cell parto and areas for animals*	200	25	0,60	80
INDUSTRIA CHIMICA, DELLA PLASTICA E DELLA GOMMA	***CHEMICAL INDUSTRY, PLASTIC AND RUBBER***				
Luoghi di lavoro con presenza di personale	*Workplaces with continuous presence of staff*	300	25	0,40	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Produzione farmaceutica e produzione di pneumatici	*Pharmaceutical and tires production*	500	22	0,60	80
Ambienti per misurazione di precisione e laboratori	*Laboratory for precision measurement*	500	19	0,60	80
Taglio, finitura e controllo	*Cutting, finishing and control*	750	19	0,70	80
Ispezione colore	*Check colour*	1000	16	0,70	90
INDUSTRIA ALIMENTARI	***FOOD INDUSTRY***				
Fabbriche di birra, conserve, cioccolato, zucchero, fermentazione di tabacco e cantine di fermentazione	*Breweries, tinned, chocolate, sugar, fermation of tobacco and fermation cellars*	200	25	0,40	80
Selezione e lavaggio prodotti. Confezionamento. Taglio e selezione di vegatali e frutta	*Selection and cleaning products. Packaging. Cutting and selection of vegetables and fruit*	300	25	0,60	80
Produzione gastronomica, lavori di cucina, produzione sigari e sigarette	*Gastronomic production, kitchen work, manufacture cigarettes*	500	22	0,60	80
Postazione di lavoro in macellerie, caseifici e mulini	*Workstations in butchers, dairies and mills*	500	25	0,60	80
Controllo di vetri e bottiglie. Controllo prodotti	*Check of glass and bottles. Check product*	500	22	0,60	80
Ispezione colore	*Check colour*	1000	16	0,70	90
LAVORAZIONE E TRASFORMAZIONE METALLI. INDUSTRIA ELETTRICA ED ELETTRONICA	***MANUFACTURING AND PROCESSING METALS. ELETRICAL AND ELECTRONICS INDUSTRY***				
Lavorazione a macchina grossolana e media	*Coarse and medium machine manufacturing*	300	22	0,60	80
Lavorazione a macchina di precisione	*Fine machine manufacturing*	500	19	0,70	80
Fucinatura a stampo, saldatura, costruzione tubi, formatura a freddo e laboratorio di trafilatura	*Forging mold, welding, pipe construction , cold forming and wire drawing workshop*	300	25	0,60	80
Tranciatura, ispezione, fabbricazione utensili e ambienti da taglio	*Tracking, check, ,utensil and cutting tool manufacturing*	750	19	0,60	80
Galvanizzazione, fabbricazione cavi e fili, impregnazione delle bobine	*Galvanizzation, manufactur of cable and wires, impregnation of coils*	300	25	0,60	80
Assemblaggio grossolano (lav. metalli)	*Coarse assembly (processing metals)*	200	25	0,60	80
Assemblaggio grossolano (indutria elettrica) e medio (lavorazione metalli)	*Coarse assembly (electrical industry) and medium assembly (processing metals)*	300	25	0,60	80
Assemblaggio medio (industria elettrica) e fine (lavorazione metalli)	*Medium assembly (electrical industry) and fine assembly (processing metalsy)*	500	22	0,60	80
Assemblaggio fine (industria elettrica) e di precisione (lavorazione metalli)	*Fine assembly (electrical industry) and precise assembly (processing metalsy)*	750	19	0,70	80
Assemblaggio di precisione (industria elettrica)	*Precise assembly (electrical industry)*	1000	16	0,70	80
Preparazione superfici e verniciatura	*Surface preparation and painting*	750	25	0,70	80
CENTRALI ELETTRICHE	***POWER STATIONS***				
Impianti alimentazione combustibile	*Combustible power plant*	50	-	0,40	20
Locale caldaie	*Boiler room*	100	28	0,40	40
Sala macchine	*Machine room*	200	25	0,40	80
Locali pompe, condesatori, quadri di controllo	*Pump rooms, condensers, control panels*	200	25	0,40	60
Sale di controllo	*Control rooms*	500	16	0,70	80
LAVORAZIONE E MANIFATTURA TESSILE	***LAMINATION AND TEXTILE MANUFACTURING***				
Zona di lavoro a lato delle vasche	*Working area at wash tubs*	200	25	0,60	60

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
Lavaggio, stiratura, filatura,incollaggio	*Washing, ironing, spinning, bonding*	300	22	0,60	80
Filatura, aspatura, bobinatura, finitura, intrecciatura, tintura e tessitura. Manifattura cappelli	*Spinning, reeling, spooling, finishing, braiding, dyeing, weaving. Hat manifacturing*	500	22	0,60	80
Cucitura, maglieria fine, rimagliatura e rammendo	*Seaming, fine knitting, hooking and mending*	750	22	0,70	80
COSTRUZIONE VEICOLO	***VEHICLE CONSTRUCTION***				
Servizi generali per veicoli, riparazione e verifica	*General Vehicle Services, Repair and Inspection*	300	22	0,60	80
Carrozzeria ed assemblaggio	*Bodywork and assembly*	500	22	0,60	80
Camera di verniciatura, spruzzatura, lucidatura	*Paint chamber, polishing*	750	22	0,70	80
Verniciatura (ritocco, controllo), fabbricazione rivestimenti interni e controllo finale	*Painting (touch up, control), Inner lining manufacturing, final control*	1000	19	0,70	80
LAVORAZIONE E MANIFATTURA DI LEGNO	***WOOD MANUFACTURING AND PROCESSING***				
Processi automatici	*Automatic processes*	50	28	0,40	40
Camera del vapore	*Steam rooms*	150	28	0,40	40
Sega	*Saw*	300	25	0,60	60
Lavori dal banco di falegnameria, incollaggio e assemblaggio	*Counter work, assembly*	300	25	0,60	80
Lucidatura, verniciatura	*Polishing, painting*	750	22	0,70	80
Lavorazione su macchine	*Machine manufacturing*	500	19	0,60	80
Selezione legno per impiallacciatura, intarsio	*Wood selection, inlay*	750	22	0,70	90
Verifica di controllo ed ispezione	*Quality control, ispection*	1000	19	0,70	90
MAGAZZINI - MAGAZZINI REFRIGERANTI	**WAREHOUSES - REFRIGERATED WAREHOUSES**				
Zone di stoccaggio	*Storage areas*	100	25	0,40	60
Zona di movimentazione, imballaggio, spedizione	*Movement areas, packaging, shipping*	300	25	0,60	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - staff presence passage (floor lighting)*	150	22	0,40	60
Magazzini con scaffali - passaggio con presenza di personale (ill. a pavimento)	*Warehouses with shelves - no staff passage (floor lighting)*	150	22	0,40	40
Stazione di controllo	*Control station*	150	22	0,60	80
LUOHI DI CURA	***HEALTH AREAS***				
Corridoio (notte)	*Corridors (night)*	50	22	0,40	80
Corridoio (giorno)	*Corridors (daytime)*	100	22	0,40	80
Visita semplice	*Visit simple*	300	19	0,60	80
Visita e trattamento	*Visit and treatment*	1000	19	0,70	90
Locali diagnostici (Illuminazione generale)	*Diagnostic rooms (visits and treatment)*	500	19	0,60	90
Locale pre-operatorio e risveglio	*Pre-operating room*	500	19	0,60	90
Sala operatoria	*Operating room*	1000	19	0,60	90
Laboratorio, farmacia (illuminazione generale), ufficio per il personale	*Laboratory, pharmacy (general lighting), staff office*	500	19	0,60	80
Massaggio, radioterapia, endoscopia,esami semplici	*Massage, radiotherapy, endoscopy, simple exams*	300	19	0,60	80
Infermeria, ingessatura, dialisi	*Infirmary, plaster, dialysis*	500	19	0,60	80
Odontoiatria (illuminazione generale), dermatologia	*Dentistry (general illumination), dentology*	500	19	0,60	90
Sala di sterilizzazione e disinfezione	*Room for sterilization and disinfection*	300	22	0,60	80

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
PARCHEGGI PUBBLICI	***COVERED PARKING***				
Rampe di ingresso/uscita (durante il giorno)	*Entry/exit ramp (daytime)*	300	25	0,40	10
Rampe di ingresso/uscita (durante la notte)	*Entry/exit ramp (night)*	75	25	0,40	40
Corsie di circolazione	*Circolations lanes*	75	25	0,40	40
Zone di parcheggio	*Parking zones*	75	-	0,40	40
Biglietteria	*Ticket office*	300	19	0,60	80
AEROPORTI	***AIRPORT***				
Zone di collegamento	*Connection areas*	150	22	0,40	80
Sala di attesa, Sala di arrivo e partenza, zona ritiro bagagli	*Waiting room, Arrival and departure room, baggage claim area*	200	22	0,40	80
Banchi informazioni, accetazione, dogana e controllo passaporti	*Information banks, acceptance, customs and passport control*	500	19	0,70	80
Deposito bagagli	*Baggage storage*	200	25	0,40	80
Zone di controllo di sicurezza	*Safety control zone*	300	19	0,60	80
STAZIONI FERROVIARIE	***RAILWAY STATIONS***				
Banchine, bassa di densità di persone	*Quay, low density of people*	100	-	0,40	40
Banchine, alta densità di persone	*Quay, high density of people*	200	-	0,50	60
Sottopassaggi, bassa di densità di persone	*Subway, low density of people*	50	28	0,50	40
Sottopassaggi, alta densità di persone	*Subway, high density of people*	100	28	0,50	40
Biglietteria, deposito bagagli, cassa	*Ticket office, baggage storage, cash*	300	19	0,50	80
Sala d'attesa	*Waiting room*	200	22	0,40	80
Ingressi, sale stazione	*Entrance, station room*	200	-	0,40	80
Gallerie d'accesso	*Access tunnel*	50	-	0,40	20
AMBIENTI SPORTIVI AL COPERTO (C.O.N.I.) - norma EN 12193	***OPEN SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	200	-	0,50	-
Atletica leggera (agonistico a liv. locale)	*Athletics (agonistic at the local level)*	300	-	0,60	-
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500	-	0,70	-
Attività natatorie (non agonistico)	*Swimming activities (not agonistic)*	200	-	0,50	-
Attività natatorie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300	-	0,70	-
Attività natatorie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500	-	0,70	-
Calcio a 5 (non agonistico)	*5-a-side football (not agonistic)*	200	-	0,50	-
Calcio a 5 (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	500	-	0,70	-
Calcio a 5 (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	750	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	200	-	0,50	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	500	-	0,70	-
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	750	-	0,70	-
Tennis (non agonistico)	*Tennis (not agonistic)*	300	-	0,50	-
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	500	-	0,70	-
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	750	-	0,70	-

LIGHT VALUES LIST (NORM UNI EN 12464)

AMBIENTE | ATTIVITÀ	*ENVIRONMENTS | ACTIVITIES*	EM (LX)	ABBAGLIAMENTO *GLARE*	UNIFORMITÀ (UO) *UNIFORMITY*	RA
AMBIENTI SPORTIVI ALL'ESTERNO (C.O.N.I.) - norma EN 12193	***CLOSE SPORT AREAS (C.O.N.I.) - norm EN 12193***				
Atletica leggera (non agonistico)	*Athletics (not agonistic)*	100		0,50	
Atletica leggera (agonistico a livello locale)	*Athletics (agonistic at the local level)*	200		0,50	
Atletica leggera (agonistico a livello nazionale od internazionale)	*Athletics (agonistic at national or international level)*	500		0,70	
Attività natatoie (non agonistico)	*Swimming activities (not agonistic)*	200		0,50	
Attività natatoie (agonistico a livello locale)	*Swimming activities (agonistic at the local lovel)*	300		0,70	
Attività natatoie (agonistico a livello nazionale od internazionale)	*Swimming activities (agonistic at national or international level)*	500		0,70	
Calcio (non agonistico)	*5-a-side football (not agonistic)*	75		0,50	
Calcio (agonistico a livello locale)	*5-a-side football (agonistic at the local level)*	200		0,60	
Calcio (agonistico a livello nazionale od internazionale)	*5-a-side football (agonistic at national or international level)*	500		0,70	
Calcio a 5 (non agonistico)	*Football (not agonistic)*	100		0,50	
Calcio a 5 (agonistico a livello locale)	*Football (agonistic at the local lovel)*	200		0,70	
Calcio a 5 (agonistico a livello nazionale od internazionale)	*Football (agonistic at national or international level)*	500		0,70	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (non agonistico)	*Basket, Volleyball, handball,fight, weightlifting, judo (not agonistic)*	100		0,50	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello locale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at the local lovel)*	200		0,60	
Pallacanestro, Pallavolo, Pallamano, Lotta, Pesistica, Judo (agonistico a livello nazionale od internazionale)	*Basket, Volleyball, handball,fight, weightlifting, judo (agonistic at national or international level)*	500		0,70	
Tennis (non agonistico)	*Tennis (not agonistic)*	200		0,60	
Tennis (agonistico a livello locale)	*Tennis (agonistic at the local lovel)*	300		0,70	
Tennis (agonistico a livello nazionale od internazionale)	*Tennis (agonistic at national or international level)*	500		0,70	
AREE ESTERNE (CIE 129)	***EXTERNAL AREAS (CIE 129)***				
Parcheggi di negozi, di scuole e condominiali	*Store, school and condo parking lots*		5		
Lavoro molto grezzo, carico e scarico	*Rough work, loading and unloading*		20		
Lavoro grezzo, trasporto e immagazzinamento	*Rough work, transportation and storage*		50		
Camminamenti per pedoni	*Pedestrian walkways*		5		

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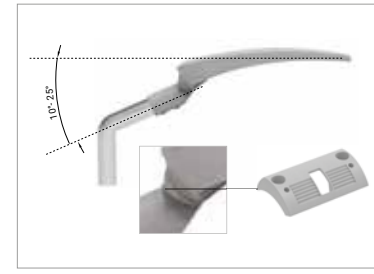
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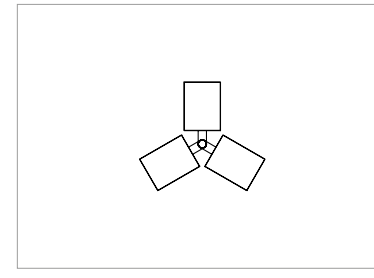
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KT6003

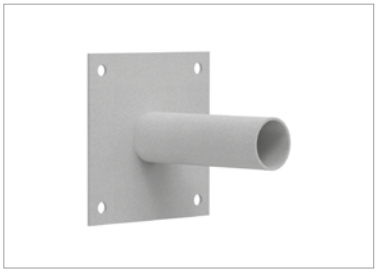


KTMK500



KBXC3

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KT6002



KELPZS - Zagha socket



KELPNS - Nema socket



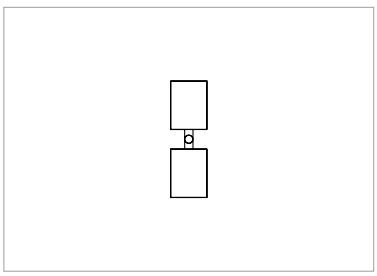
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KT6010



KT6020



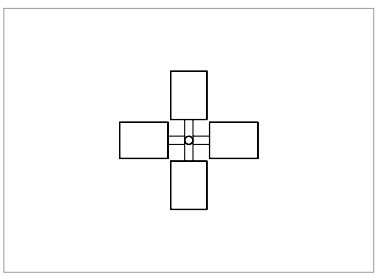
KBXC2



KT6110



KT6120



KBXC4



KATRD

NOTE

GENERAL SALES CONDITIONS

1. PREMESSE
Le forniture comprendono solo quanto espressamente specificato nella conferma di accettazione dell'ordine della ditta Venditrice e sono regolate dalle presenti condizioni generali, salvo deroghe risultanti da esplicito accordo scritto. Eventuali variazioni o comunicazioni durante il corso della fornitura non costituiscono invalidazione del contratto. I termini di consegna convenuti hanno valore indicativo e non tassativo. In qualunque momento l'esecuzione della fornitura potrà essere sospesa in caso di mutamento nelle condizioni patrimoniali del Committente ai sensi dell'Art. 1461 del Codice Civile.

2. PREZZI
I prezzi si intendono Franco Fabbrica della ditta Venditrice. Essi non comprendono prestazioni ed oneri non menzionati. Gli imballaggi sono inclusi nel prezzo, salvo diversa pattuizione scritta.

3. VARIABILITA' PREZZI
I prezzi indicati nel contratto sono stati calcolati in base ai costi dei materiali e della manodopera alla data del contratto stesso, in base alle relative tabelle dell'ANIE. Il sistema di calcolo delle variazioni di qualsiasi entità in più o in meno, che dovessero verificarsi su detti costi durante il periodo dell'esecuzione della vendita, verrà effettuato in base alle clausole di variabilità prezzi vigenti per apparecchi di illuminazione pubblicato dall'ANIE.

4. MODALITA' DI PAGAMENTO
Si riconoscono solo i pagamento fatti direttamente al nostro domicilio o a persone da noi autorizzate.

5. RISERVA DI PROPRIETA'
La ditta Venditrice conserva la proprietà sui materiali fino a totale pagamento di essi, ma i rischi sono assunti dal compratore sin dalla consegna. Qualunque atto del Committente che, salvo esplicito consenso scritto della Ditta venditrice, involga pregiudizio al diritto della Ditta Venditrice alla rivendita del materiale, sarà sottoposto alle sanzioni di legge.

6. CONSEGNA
Il termine di consegna indicato non impegna la Ditta Venditrice, la quale non è tenuta a corrispondere indennizzi di sorta per eventuali danni diretti ed indiretti dovuti a ritardi di consegna o ad interruzione od a risoluzione parziale o totale della fornitura. Il termine di consegna decorre dalla data della conferma d'ordine e in ogni caso non ha inizio prima del ricevimento della rata di pagamento all'ordine quando essa sia stata concordata. Esso si intende di diritto adeguatamente prorogato se i pagamenti non vengono effettuati puntualmente, se il Committente manca di fornire in tempo utile quanto stabilito nel contratto o se comunque insorgano cause indipendenti dalla Ditta Venditrice, ivi compresi eventuali ritardi di subfornitori.

7. RESO MERCE
La merce può essere resa esclusivamente previa autorizzazione della Ditta Venditrice e con un deprezzamento minimo del 30%

8. TRASPORTO
La merce viaggia rischio e pericolo del Committente comprese le eventuali rotture anche se spedita in porto franco. Trascorsi 8 giorni dal ricevimento non si accettano reclami. Gli ordini saranno evasi secondo la disponibilità e le spedizioni potranno essere fatte anche parzialmente.

9. DATI TECNICI
I materiali forniti, salvo diverse particolari prescrizioni da concordarsi per iscritto, corrispondono alle vigenti norme del CEI – Comitato Elettrotecnico Italiano, ove queste siano applicabili. La ditta Venditrice si riserva di apportare in qualunque momento ai propri prodotti quelle modifiche che ritenesse tecnicamente convenienti. I disegni dalle Ditta Venditrice sono di sua proprietà e non possono dal Committente essere consegnati a terzi ne prodotti senza autorizzazione scritta.

10. GARANZIA
Ideallux garantisce i suoi prodotti per 24 mesi dalla data di fabbricazione indicata sul prodotto. La garanzia copre tutti i difetti di fabbricazione siano essi di natura meccanica o elettronica. Non sono inclusi in garanzia tutti i danni causati dalla movimentazione e/o utilizzo errato e non conforme a quanto riportato sulle istruzioni d'uso. La garanzia decade nel caso in cui i prodotti vengano manomessi e/o modificati.
Il prodotto difettoso per cui è richiesto l'intervento in garanzia, può essere riparato o sostituito con un articolo complementare sia nuovo che ricondizionato ad insindacabile giudizio di Ideallux. I prodotti che riportano il marchio "5 years warranty" sono coperti da 5 anni di garanzia considerando 14h/giorno per 365 giorni solari annuali, nel rispetto del lifetime indicato sulla scheda prodotto. I reclami per interventi in garanzia entro i 5 anni dalla data di fabbricazione (ad esclusione di quelli ricevuti entro i termini legislativi sopra indicati) saranno soggetti ad approvazione di Ideallux. Guasti che rientrano nella difettosità fisiologica dichiarata e comunque entro il 5% del totale degli articoli installati non sono coperti dalla garanzia 5 anni.Termini e condizioni generali di garanzia sono disponibili e possono essere richiesti presso la sede Ideallux.

11. CONTROVERSIE
I contratti, anche se stipulati con cittadini esteri o per materiali forniti all'estero, sono regolati dalla vigente legislatura italiana. Foro competente è soltanto quello avente giurisdizione nella sede legale della Ditta Venditrice anche in deroga agli art. 32 e seguenti del Codice di Procedura Civile, esclusa per il Committente la possibilità di adire l'Autorità Giudiziaria di altro luogo anche in via di garanzia o di connessione di causa, ma salva la facoltà alla Ditta Venditrice di esperire, in qualità di attrice, un'azione nel luogo di residenza, in Italia o all'estero, del Committente. Le eventuali contestazioni non dispensano il Committente dall'osservare le condizioni di pagamento pattuite e non implicano alcun prolungamento dei termini convenuti. Le spese di contratto, la sua registrazione e l'eventuale trascrizione sono a carico del Committente.

1. INTRODUCTION
The supplies include only what is express specified in the order acceptance confirmation of the Vending Company and are governed by these general conditions, save for provisions resulting from an explicit written agreement. Any changes or notifications during the supply do not constitute the invalidation of the contract. The agree delivery terms are merely indicative and are not binding. The execution of the supply may be suspend at any time due to changes to the financial conditions of the Buyer in accordance with the Art. 1461 of the Italian Civil Code.

2. PRICES
The prices are Ex-works of the Vending Company and do not include services at charges that have not been mentioned. The packages are include in price. The package cannot be return, save for a different written agreement.

3. CHANGES IN PRICES
The prices shown in the contract were calculate based on the costs of the materials and of the labor on the date of the contract based on the related ANIE tables. The calculation system of any kind of changes, whether more or less, that may arise to said costs during the period of execution of the sale will be carried out based on the clauses of the changes of prices in force for lighting equipment published by ANIE.

4. PAYMENT
We recognize as valid payment only the ones made directly to our address or to our authorized people.

5. RETENTION OF TITLE
The Vending Company keeps the ownership of materials until paid in full, but the risks are assume by the Buyer upon delivery. Any action of the Buyer, that results in prejudice to the right of the Vending Company to resell the material, will be subjected to legal sanctions, save for the explicit written consent of the Vending Company.

6. DELIVERY
The delivery period shows does not bind the Vending Company, which is not bound to pay indemnities arising for any direct or indirect damage due to delivery delays, downtime or the partial or total return of the supply. The delivery period is effective from the date of the order confirmation and in any case does not begin prior to having receiving the payment instalment for the agreed amount. This term is adequately extend by right if the payments are not made punctually, if the Buyer fails to supply what is set out in the contract in useful time or if causes nonetheless arise regardless of the Vending Company, therein including any delays of sub-contractors.

7. RETURN OF GOODS
The goods may only be return upon the authorization of the Vending Company and with a depreciation of 30%.

8. TRANSPORT
The goods travel at Customer's risks and danger, even if in case of damage in fall of delivery terms Free destination.

9. TECHNICAL DATA
Save for special prescriptions to be agree in writing, the materials supplied correspond to the standards in force of the CEI (Italian Electrical and Technical Council), where applicable. The Vending Company reserves the right to change its products at any time where deemed technically convenient. The designs of the Vending Company are its own property and may not be given by the Buyer to third parties without written authorization.

10. WARRANTY
IDEALLUX guarantees its products for 24 months from the date of production indicated on the item. The warranty covers all manufacturing defects whether they are of a mechanical or electronic nature. All damage caused by handling and / or incorrect use, or use not in accordance with the instructions indicated in the operating instructions are not covered by this warranty. The warranty will expire if the products are tampered with and/or modified. The defective product requiring warranty intervention can be repaired or replaced with a similar article both new and reconditioned at the discretion of Ideallux. The products with mark "5 years warranty" are covered by 5 years warranty considering 14 h/day for 365 solar annual days, respecting the lifetime indicated in the product data sheet. Claims for warranty work within 5 years from the date of manufacture (except those received within the above mentioned legislative terms) will be subject to Ideallux approval.
Faults that fall within the declared physiological defect and in any case within 5% of the total installed items will not be covered by the 5 yeas warranty. Warranty general terms and conditions are available and can be requested at Ideallux offices.

11. DISPUTES
Even if stipulated with foreign citizens or for materials supplied abroad, the contracts are govern by the Italian legislation in force. The only competent court is the one having jurisdiction in the registered office of the Vending Company, also in provision of Art. 32 and ff. of the Italian Code of Civil Procedure, apart from the Buyer's possibility of applying to the Judicial Authority of another place also as a guarantee or related cause, but save for the right of the Vending Company to carry out an action in the place of residence of the Buyer in Italy or abroad as the plaintiff. Any disputes do not waiver the Buyer from observing the agreed payment conditions and do not imply any extension of the agreed terms. The costs of the contract, its registration and transcription are at the expense of the Buyer.

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