

45°40'17.8"N 9°23'37.9"E



Il marchio CSQ/IQNET è valido in tutto il mondo. Indica che l'azienda ha ottenuto la certificazione aziendale del Sistema di Qualità in conformità alla norma UNI EN ISO 9001: 2015.
CSQ/IQNET mark is valid all over the world. It means that Company achieved business certification of Quality System in conformity with UNI EN ISO 9001:2015 norm.
 Das Prüfzeichen CSQ/IQNET gilt auf der ganzen Welt. Es weist darauf hin, daß die Firma eine Firmenzertifizierung des Qualitäts-sicherungssystems in Konformität mit der UNI EN ISO 9001: 2015 Richtlinie erhalten hat.



Società Austriaca di Illuminotecnica, si pone come principale obiettivo il mantenimento e la promozione dell'intero settore dell'illuminazione e dell'illuminotecnica sia a livello teorico che pratico.
The Austrian Light Engineering Society focuses on the maintenance and promotion of the whole lighting sector and light engineering both at a theoretical and practical level.
 Die Lichttechnische Gesellschaft Österreichs. Ziel der LTG ist die Pflege und Förderung der gesamten Licht- und Beleuchtungstechnik in Theorie und Praxis.



Attestato di certificazione da parte di IMQ dei dati fotometrici dichiarati.
Certification issued by IMQ concerning declared photometric data.
 Zertifizierungsbescheinigung von seiten des IMQ über die angegebenen photometrischen Daten.



Associazione Nazionale Produttori Illuminazione.
National Association Lighting Manufacturer.
 Nazionale Vereinigung der Leuchtenhersteller.



Certificazione di conformità europea. Sostituisce tutte le omologazioni normative nazionali in base alla norma europea EN 60598.
European conformity declaration. It substitutes any national norm approval, as per European norm EN 60598.
 Europäische Konformitätszertifizierung. Ersetzt alle national maßgeblichen Homologationen auf Basis der europäische EN 60598 Richtlinie.



L'Azienda è sponsor dell'Associazione Italiana di Illuminazione.
Sponsor Company of Italian Lighting Association.
 Firmensponsor der Italienische Vereinigung für Beleuchtung.



Omologazione normativa nazionale rilasciata da IMQ agli apparecchi conformi alle norme europee EN 60598.
National norm approval issued by IMQ for fixtures which comply with European norm EN 60598.
 Vom IMQ herausgegebene, national maßgebliche Homologation für Geräte, die konform zu den europäischen EN 60598 Richtlinien sind.



L'Azienda è sponsor dell'Associazione francese dei designer della luce e dell'illuminazione.
Sponsor Company of French Lighting designer's Association.
 Firmensponsor der Lichtassoziaton von den Verfassern und Beleuchtungssystem.



IDA: certificazione rilasciata dall'International Dark-Sky Association agli apparecchi valutati anti inquinamento luminoso.
IDA: certification issued by the International Dark-Sky Association for those fixture swich are esteemed as "anti-lighting pollution".
 IDA: von der Vereinigung der International Dark-Sky Association vergebene Zertifizierung für Geräte, die als nicht lichtverschmutzend eingestuft werden.



Consorzio per la raccolta e lo smaltimento delle apparecchiature di illuminazione.
Consortium for collection and waste of lighting system equipments.
 Vereinigung für Ansammlung und Vergeudung der Beleuchtungssystemausrüstungen.



UAI: certificazione rilasciata dall'Associazione Unione Astrofili Italiani agli apparecchi valutati anti-inquinamento luminoso.
UAI: certification issued by the Italian Astronomy Lovers Union association for those fixtures which are esteemed as "anti-lighting-pollution".
 UAI: von der Vereinigung der italienischen Astrophilen vergebene Zertifizierung für Geräte, die als nicht lichtverschmutzend eingestuft werden.



Rispondente leggi inquinamento luminoso.
In accordance with the laws concerning lighting pollution.
 Nach Anforderungen der Lichtverseuchung.



I certificati The certificates Die zertifikate

La sede di Osnago adotta un sistema di gestione per la qualità secondo norma UNI EN ISO 9000:2015 al fine di accrescere la soddisfazione del cliente. Certificato CSQ 9130.CAIL Certificato IQNET IT-35272.

The Osnago headquarter adopts a quality management system in conformity with the UNI EN ISO 9000:2015 norms, in order to increase the customer's satisfaction. CSQ quality certificate: 9130.CAIL IQNET quality certificate: IT-35272.

Um das Maß der Zufriedenstellung des Kundens zu vergrößern verwendet die Niederlassung in Osnago ein Qualitätssystem nach der Norm UNI EN ISO 9000:2015. Zertifi kat CSQ 9130.CAIL Zertifi kat IQNET IT-35272

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Studio Piermaria - Silvia Lavinia Carbonere, Qianhui Rao

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Max Rommel
Daniele Cortese
Enrico Geminiani
Cristian Ciaroli
Stefano Anzini

Floodlight

Omikron Flood
56



Led Lite 1
62



Cube
266



Sigma Flood
72



Lit Flood
98



Kosmos Flood
82



Levante Flood
90



M48 Area Flood
582



M48 Flood
588



Newton
600

Bollard

Lit XS
110



Paule System
116



Ekleipsis
122



Fin
136



Fin XS
144



Peyote
154



Path
166



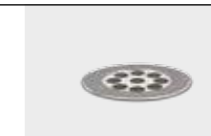
Borne Port Estran
174

**Walk over
Recessed**

Chara
198



Perla
192



Cristal
210



Luna
220



Grace
256



Trail
232

**Drive over
Recessed**

Kore
178

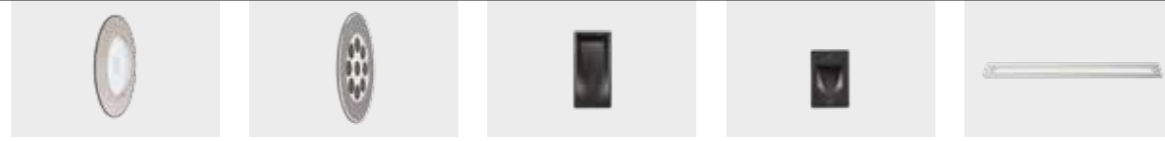


Zon
226



Grace
256

Wall Recessed



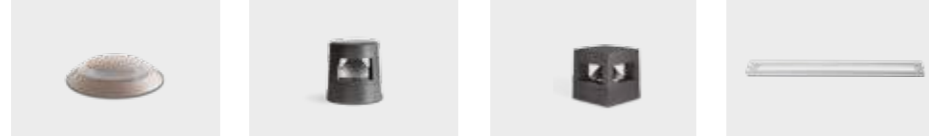
Chara 198 Cristal 210 Fin 136 Fin XS 144 Trail 232

Ceiling Recessed



Chara 198 Kore 178 Perla 192 Ekleipsis 122 Trail 232

Ground



Grace 256 Peyote 154 Path 166 Trail 232

Wall



Lit XS 110 Lit 342 Ekleipsis 122 Cube 266



One4two 276 Led Lite 2 62 Led Lite 3 62 Led Lite 4 62



Levante Flood 90 Banister 286 Trail 232

Ceiling



Ekleipsis 122 Cube 266 One4two 276 Trail 232 M48 Area 572

Brackets And poles



Ekleipsis Pole 322 Omikron Pole 328 Sigma Pole 334 Lit 342 Lit 342



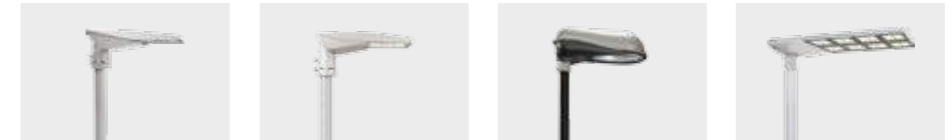
Lit 342 Levante Pole 368 Kosmos 382 Nodea 404 Orao 410



Agathos 426 Kalos 442 Circle 458 Seven 464 Ypsilon 470



Flat Link 478 Big Link 496 Mat Balancier 512 Classic 522 Flyer 528



Kairos 538 Kai 546 Oyster 556 M48 Street 594

String Suspension



Kosmos 382 Orao 410 Kalos 442 Flat Link 478 Flyer 528

Ceiling Suspension



Kosmos 382 Orao 410 Agathos 426

Caratteristiche generali
General characteristics
Allgemeine Eigenschaften

Kosmos



220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 CLO on request DALI Main voltage variation Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



Campi di applicazione
Application fields
Anwendungsbereiche

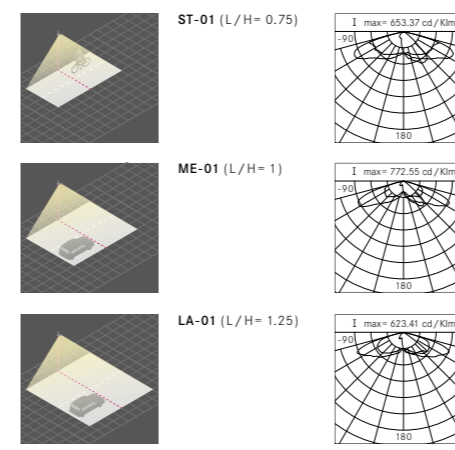
Installazione: palo, braccio, parete, tesata, soffitto
Installation: pole, arm, wall, string, ceiling
Installation: Mast, Arm, Wand, Drahtseil, Decke

386

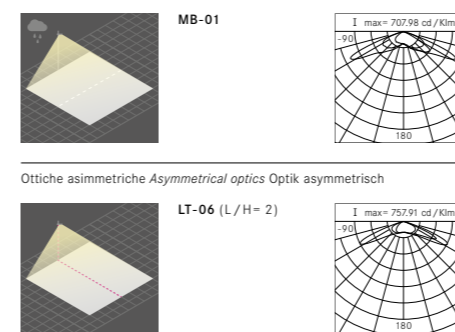
Kosmos

1700-11915lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



Ottiche per manto bagnato
Wet surface optics Optik asymmetrisch straßenleuchte

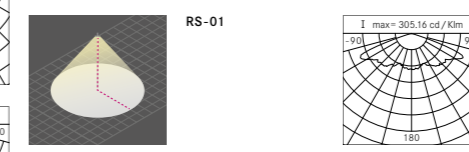


Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

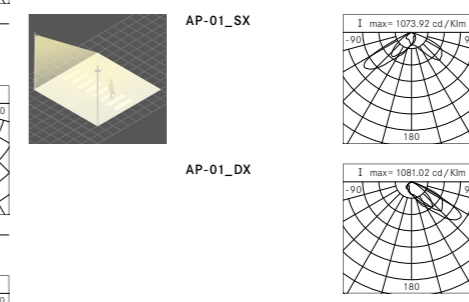
Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



Ottiche per attraversamenti pedonali
Pedestrian crossing optics Optik für fußgängerüberwege



Ottiche
Optics
Optik

Dati fotometrici
Photometrical data
Photometrische Daten

387


Nella costante ricerca di miglioramento del prodotto le caratteristiche sono soggette a variazioni.
Per rimanere aggiornato visita caribonigroup.com
In order to facilitate a constant updating of the product features are subject to change.
Visit caribonigroup.com to stay updated.
Um eine konstante Aktualisierung der Leuchten zu fördern Funktionen können sich ändern.
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Kosmos Post top

220 50
240V 60Hz CL II IP66 IK09

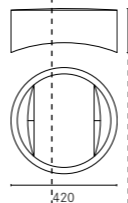
Omologazioni e caratteristiche tecniche
Homologations and technical features
Typprüfungen und technische Eigenschaften

Foto prodotto
Product's photo
Bild der Leuchte



Disegno quotato (mm)
Technical dimensional drawing (mm)
Technisches Zeichnen der Leuchte mit Ausmaße (mm)

Kosmos Post top



Kosmos M
06KS2

Led (source flux) Ref. @700mA @4000K
4070lm 24W **B2** 8045lm 48W **C4** 11915lm 72W **D6**

Led (source flux) Ref. @700mA @3000K
3885lm 24W **B2** 7670lm 48W **C4** 11360lm 72W **D6**

mA
700 525 350
0 5 3

K
4000 3000 2200* *Only 48W and 72W Optics ME-01 / LA-01 / LT-06
0 9 1

Optics
ST-01 ME-01 LA-01 RS-01 LT-06
30 32 31 35 37

Color
Sablé100
C

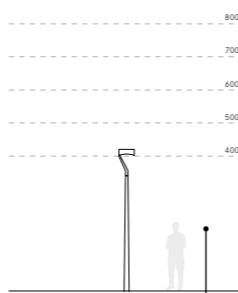
Smart Lighting
Custom programmable virtual midnight and DALI standard
HM4

Esempio Example Beispiel
06KS2 B2 0 0 30 C HM4

Codice e descrizione prodotto
Code and description of the products
Kodenummer und Beschreibung der Leuchte

Codice prodotto
Code of the product
Kodenummer der Leuchte


Famiglia di prodotto
Product family
Produktfamilie



Accessori *Accessories* Zubehör

06KS901C0 - Sablé100

Chela Testa Palo Ø60mm (codolo H Ø90mm)
Arm for post top Ø60mm (fastening part H Ø90mm)
Mastkopf Befestigungssystem Ø60mm (schaft H Ø90mm)

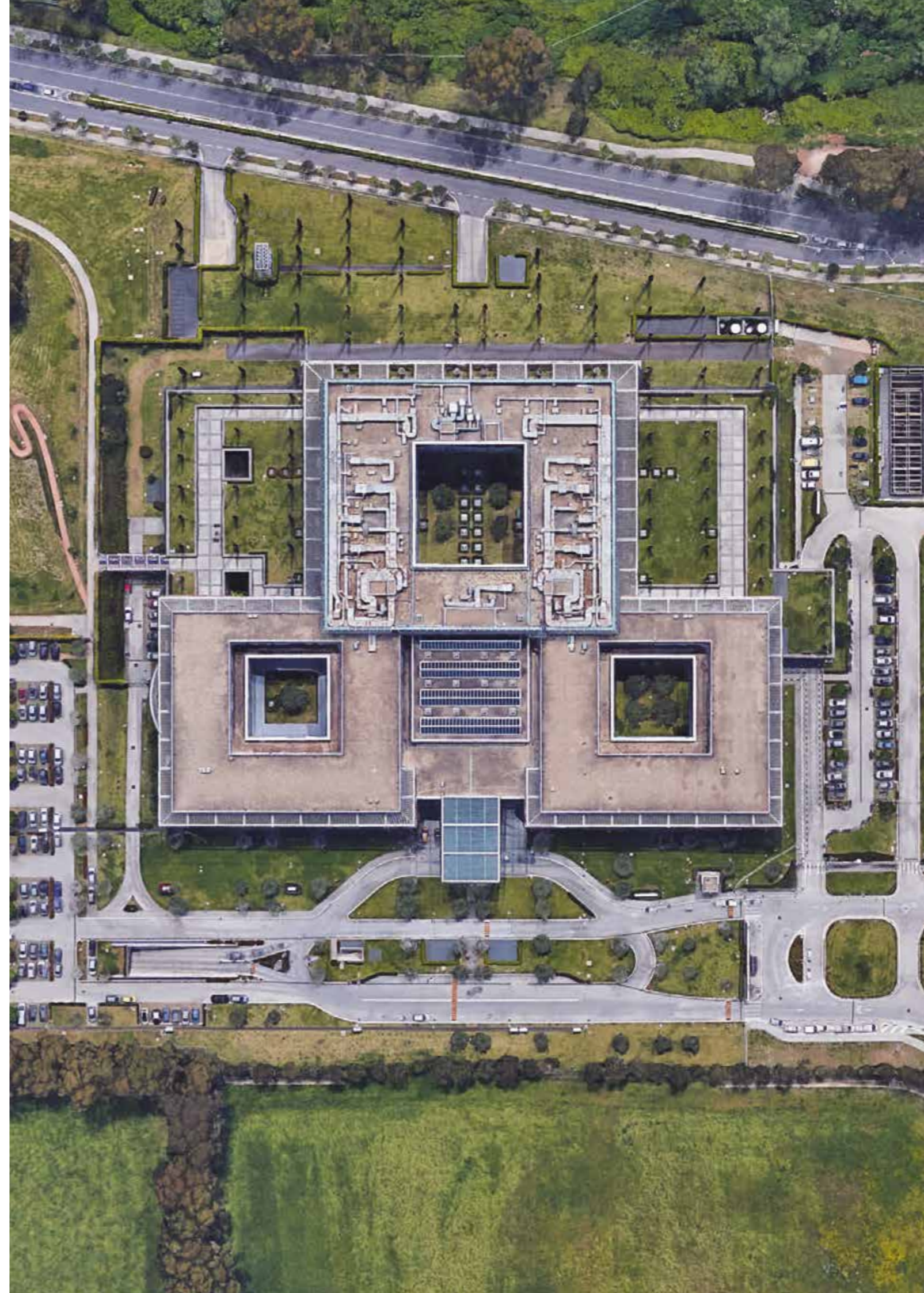


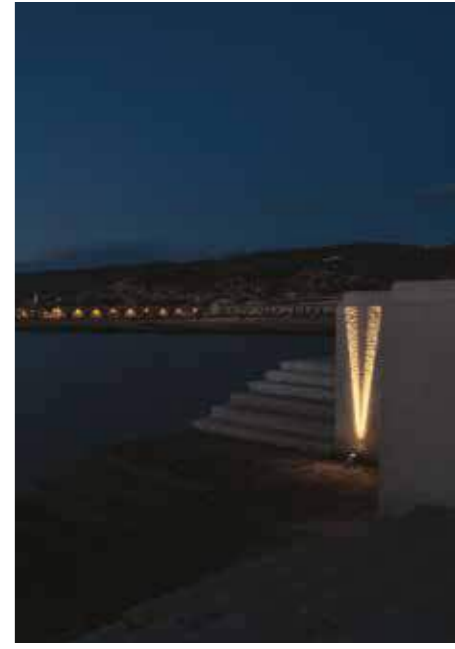
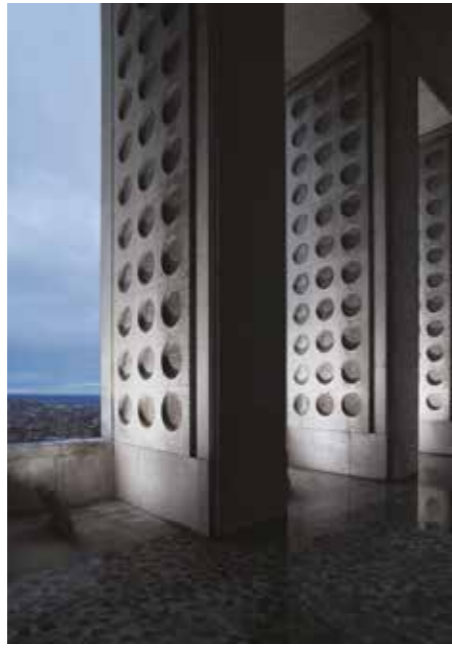
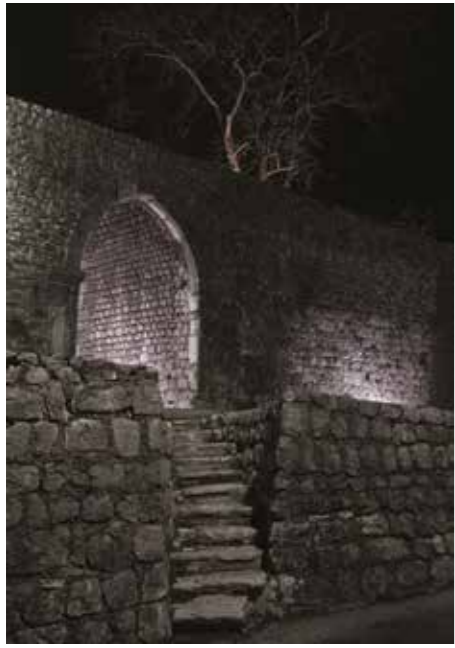
Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

Colore
Color
Farbauswahl

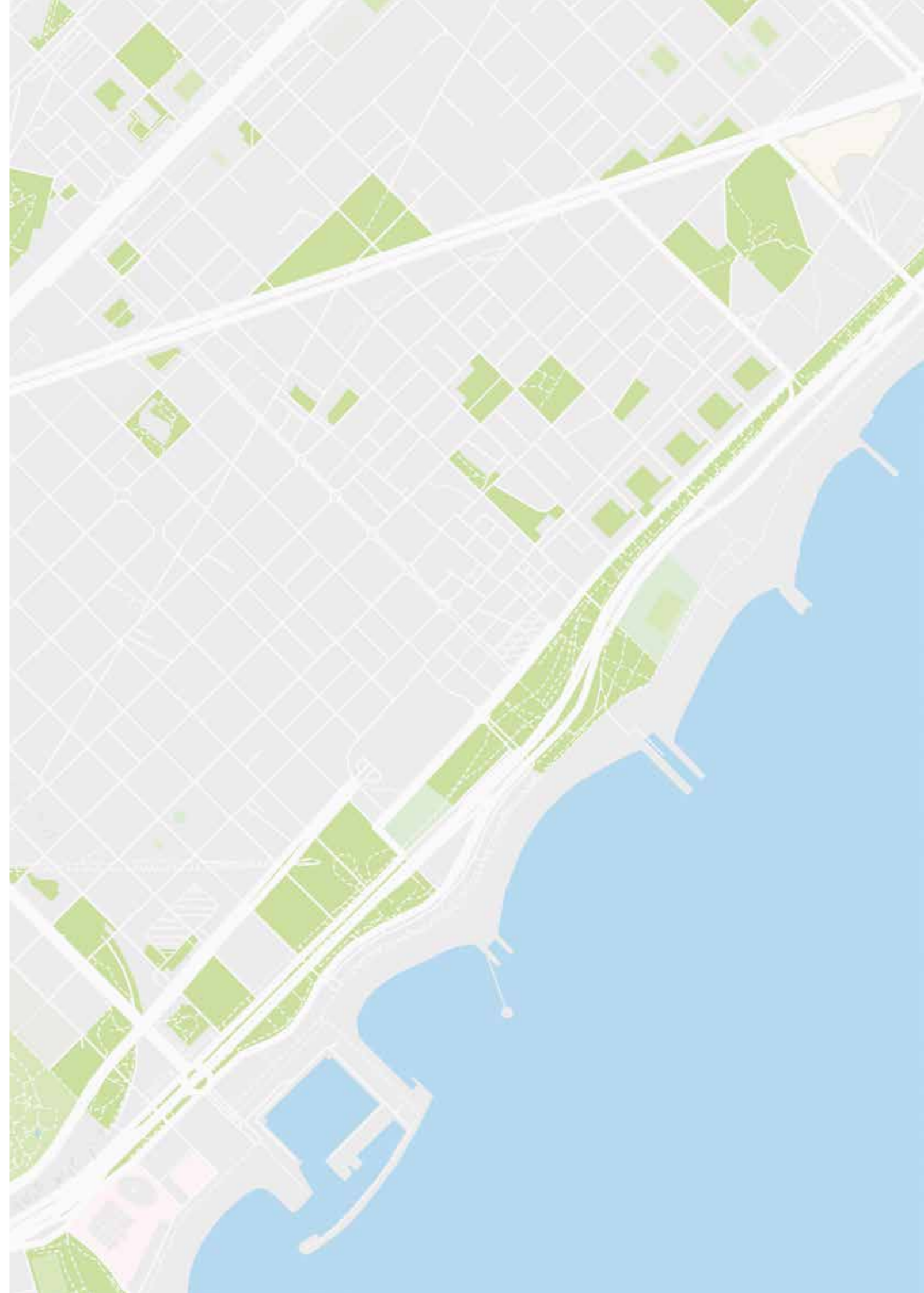
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41°46'06.5"N 12°28'12.6"E





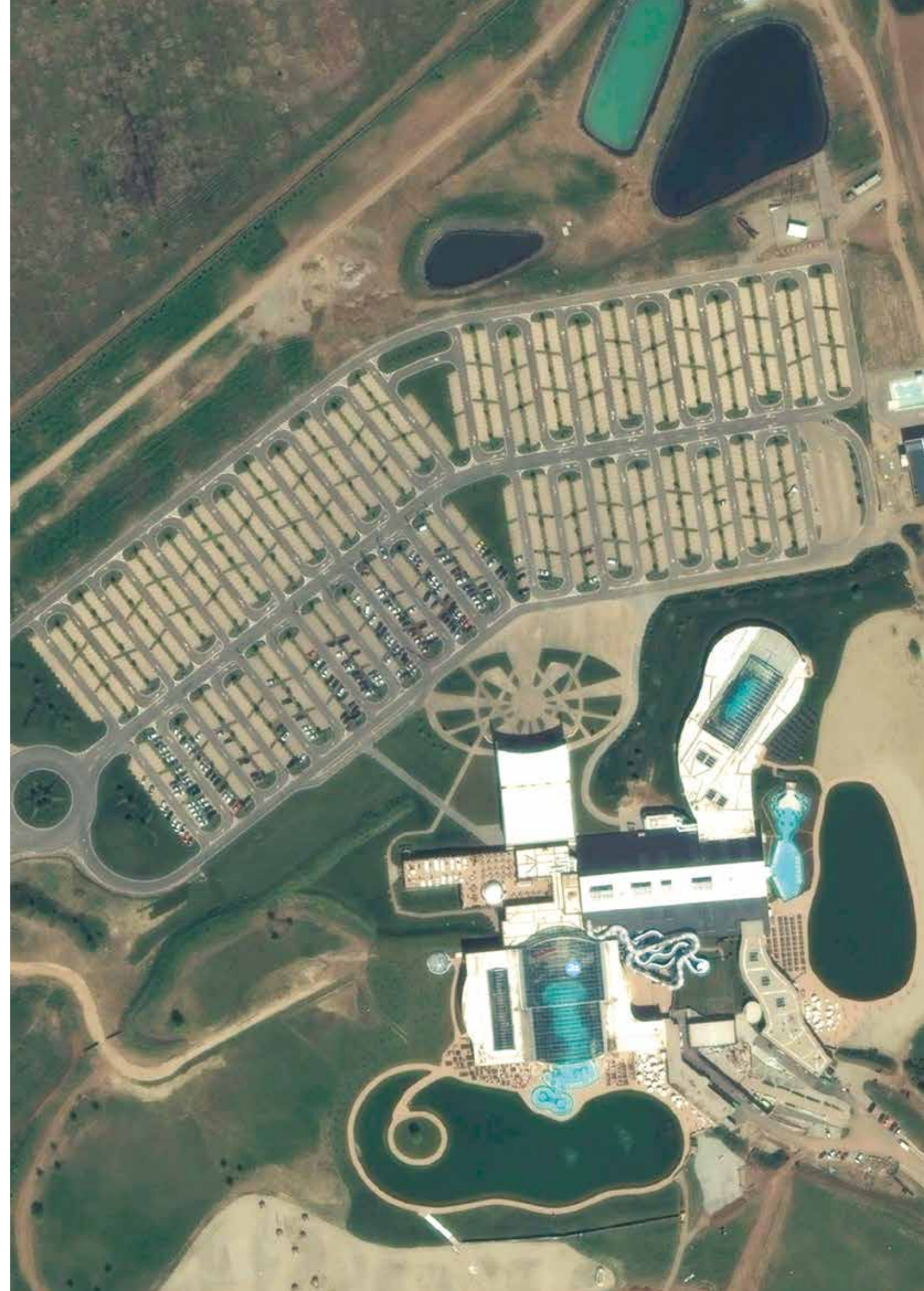
41°23'52.3"N 2°12'38.0"E







44°36'20.5"N 26°05'07.6"E







Storia *History* Geschichte

Cariboni è stata fondata nel 1908 in Lombardia, per produrre accessori per linee elettriche. Questa Officina sarà il nucleo originale di una grande impresa italiana di progettazione e realizzazione di prodotti sempre innovativi: dalla prima esperienza in Italia di elettrificazione ferroviaria alle linee ad alta tensione, dai grandi proiettori per torri faro agli apparecchi illuminanti per esterno.

Dal 1965 l'azienda sviluppa con originalità importanti innovazioni tecnologiche nel settore dell'illuminazione in termini di design, ottica, elettronica, scienze dei materiali e produzione. Realizza prodotti per l'illuminazione esterna urbana, stradale, architetture e funzionale e col tempo diventa uno dei principali attori nel mercato europeo dell'outdoor lighting. Nei primi anni Duemila Cariboni è tra le prime imprese dell'illuminazione italiana e internazionale a credere e investire nella produzione di corpi illuminanti con sorgenti LED, la tecnologia che negli anni successivi rivoluzionerà la luce.

Cariboni è presente nel mondo con Cariboni Lite France e T.I.L.C. Tunisian Italian Lighting Company Sarl.

Cariboni was established in 1908 in Lombardy, making accessories for electrical lines. This Workshop marked the starting point of a great Italian business, designing and producing increasingly innovative products: from Italy's first electric railways to high voltage power lines, from large floodlights for lighthouses to outdoor luminaires.

From 1965 the company put its original thinking to good use, developing major technological innovations in the lighting sector in terms of design, optics, electronics, materials science and production. It made outdoor urban, street, architectural and functional lighting products. Over time, it became a leader on the European outdoor lighting market. In the early Noughties, Cariboni was one of the first Italian and international lighting manufacturers to believe and invest in the production of LED luminaires.

That technology went on to revolutionise light.

Cariboni has an international presence, through Cariboni Lite France and T.I.L.C. Tunisian Italian Lighting Company Sarl.

Cariboni wurde 1908 in der Lombardei als Hersteller von Zubehörteilen für Stromleitungen gegründet. Diese Werkstatt bildet den Ursprung des späteren großen italienischen Unternehmens für die Planung und Realisierung immer innovativerer Produkte: ausgehend von den ersten Erzeugnissen der Eisenbahnelektrifizierung bis zu Hochspannungsleitungen, von großen Scheinwerfern von Lichtmasten bis hin zu Beleuchtungsapparaten für Außenbereiche.

Seit 1965 macht das Unternehmen regelmäßig mit bedeutenden und originellen technischen Neuerungen im Beleuchtungsbereich hinsichtlich Design, Optiken, Elektronik, Material- und Produktionswissenschaft von sich reden. Cariboni fertigt Produkte für die städtische, Straßen-, Architektur- und funktionale Außenbeleuchtung und ist mit der Zeit zu einem der wichtigsten Akteure im Outdoor Lighting auf dem europäischen Markt avanciert. Zu Beginn des neuen Jahrtausends gehört Cariboni zu den führenden Anbietern von Lichtlösungen in Italien und der ganzen Welt und beginnt mit massiven Investitionen in der LED-Technologie, die in den kommenden Jahren die Welt des künstlichen Lichts revolutionieren wird.

Auf internationaler Ebene ist Cariboni als Cariboni Lite France und als T.I.L.C. Tunisian Italian Lighting Company Sarl tätig.



1. Cultura della luce

Siamo da oltre un secolo impegnati nel settore elettrotecnico e abbiamo acquisito nel tempo profonda esperienza nella gestione dei corpi illuminanti. Ci distingue una forte passione per la luce e un costante impegno nella ricerca e nell'innovazione tecnologica. Il nostro obiettivo è offrire esperienze di luce alle persone arredando le città di giorno e valorizzandole durante la notte. Irrrinunciabile per noi è un continuo dialogo con i professionisti che modellano il paesaggio urbano con la luce. Collaboriamo quotidianamente con i progettisti per l'illuminazione di piccoli borghi e grandi città: piste ciclabili e pedonali, percorsi veicolari, piazze, aree verdi e architetture; spazi per il lavoro e per il tempo libero, per la cultura e per il benessere, per lo sport e per la mobilità. Proponiamo non solo prodotti ma soluzioni professionali complete e flessibili ad ogni progetto. Siamo attivi nelle associazioni di settore e presenti negli eventi internazionali per poter rispondere al meglio alle esigenze di chi le città le progetta e di chi le vive.

2. Sostenibilità sociale e ambientale

Illuminare lo spazio urbano è per noi un'azione di grande responsabilità sociale e ambientale. La luce, con la sua ombra, lungo un percorso, in un'area verde o in un edificio, comunica e valorizza i luoghi, dona vivibilità e tranquillità. Per noi l'illuminazione deve essere sempre gradevole e performante. Conosciamo gli effetti biologici e psicologici della luce e ricerchiamo l'eccellenza per offrire ai cittadini ambienti evocativi, benessere visivo e sicurezza. Siamo costantemente impegnati nella ricerca e nello sviluppo di soluzioni in grado di migliorare la qualità dell'illuminazione urbana e di aggiungere valore alla luce. Adoperiamo le nuove tecnologie per integrare servizi alla luce e per illuminare solo dove e quando necessario. Confidiamo in uno sviluppo sostenibile dell'attività manifatturiera e per questo valutiamo ogni scelta progettuale e produttiva nel rispetto dell'ambiente, riducendo i consumi energetici, limitando l'inquinamento luminoso e garantendo l'affidabilità nel tempo dei nostri prodotti.



1. The culture of light

We have been involved in the electrotechnical sector for more than a century and have acquired a wealth of experience in luminaire management. Our stand-out qualities are a true passion for light and a constant commitment to research and technological innovation. Our goal is to enable people to experience light, with daytime furnishings for cities that show places at their best at night. We place great value on our continual dialogue with professionals who shape the urban landscape with light. On a daily basis we work together with the lighting designers of small towns and big cities: cycle and pedestrian paths, vehicle routes, squares, parks & gardens and architecture; workspaces and areas for leisure, culture and well-being, for sport and mobility. We offer not just products, but complete, flexible professional solutions for each project. We are active in sector associations and attend international events in order to best meet the requirements of town planners and inhabitants.

2. Social and environmental sustainability

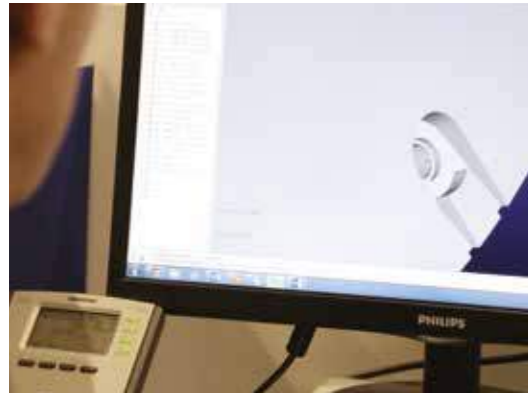
For us, lighting urban areas is a big social and environmental responsibility. Light, along with its shadow, along a route, in a green area or a building, clarifies and enhances places, makes them liveable and peaceful. We believe that lighting should always be pleasant and high performance. We know the biological and psychological effects of light and our pursuit of excellence aims to give citizens evocative spaces, visual well-being and security. We are constantly engaged in research and development of solutions to improve urban lighting quality and add value to light. We use new technologies to integrate services with light and for lighting only where and when necessary. We believe in sustainable manufacturing development and so weigh up every design and production decision with a view to protecting the environment, reducing energy consumption, limiting light pollution and guaranteeing the lasting reliability of our products.

1. Lichtkultur

Seit über einem Jahrhundert sind wir im elektrotechnischen Bereich tätig und haben mit der Zeit unschätzbare Erfahrungen beim Management von Lichtlösungen gesammelt. Eine große Passion für das Licht und ein gleichbleibend hohes Engagement in Forschung und technischer Innovation sind unsere Markenzeichen. Unser Ziel ist es, Menschen Lichterlebnisse zu schenken, indem wir tagsüber die Landschaft der Städte bereichern und sie nachts stimmungsvoll in Szene setzen. Ein ständiger Dialog mit den professionellen Akteuren, die Stadtlandschaften mit dem Licht gestalten, ist für uns unabdingbar. Wir arbeiten täglich mit Planern bei der Beleuchtung kleiner Orte wie Metropolen zusammen: Fahrrad- und Fußwege, Verkehrswege, Plätze, Grünflächen und Architekturen, Orte der Arbeit und der Freizeit, der Kultur und des Wohlbefindens, des Sports und der Mobilität. Wir bieten nicht nur Produkte, sondern für jedes Projekt komplette und flexible professionelle Lösungen. Wir sind in den Berufsverbänden der Branche aktiv und regelmäßig auf internationalen Veranstaltungen zu finden, um besser auf die Bedürfnisse all jener einzugehen, die Städte planen und solchen die sie bewohnen.

2. Soziale und ökologische Nachhaltigkeit

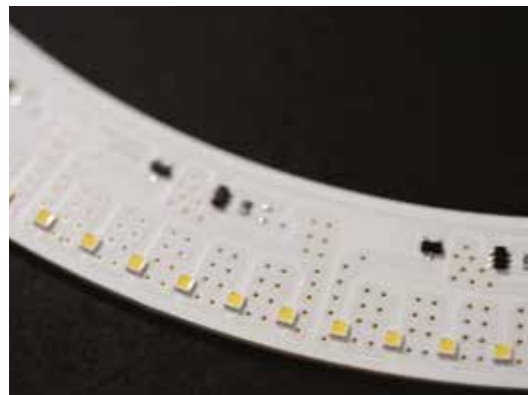
Die Beleuchtung urbaner Flächen ist für uns mit großer sozialer und ökologischer Tragweite und Verantwortung verbunden. Das Licht, genau wie sein Schatten, auf Wegen, in Grünflächen oder in Gebäuden kommuniziert und setzt Orte in Szene, macht sie lebenswerter und schenkt Ruhe. Für uns muss Beleuchtung stets so angenehm wie effizient sein. Wir kennen die biologischen und psychologischen Auswirkungen des Lichts und suchen nach außerordentlichen Wegen, Stadtbewohnern stimmungsvolle Lichtszenerien, Sehkomfort und Sicherheit zu schenken. Wir forschen und arbeiten unermüdlich an Lösungen, um die Qualität der Stadtbeleuchtung zu verbessern und Licht als Mehrwert für ein besseres Leben einzusetzen. Wir nutzen die neuen Technologien, um Licht in den Dienst der Gemeinschaft zu stellen und nur dort zu beleuchten, wo und wenn es notwendig ist. Wir glauben an die nachhaltige Entwicklung des Fertigungswesens und wägen daher jede planerische und produktive Entscheidung im Hinblick auf ihren ökologischen Footprint ab, senken den Energieverbrauch, reduzieren den Lichtsmog und garantieren die Zuverlässigkeit unserer Produkte über lange Zeiträume.



3. Saper fare italiano

Cariboni è una struttura organizzativa efficiente, nella quale ogni elemento della catena del valore si integra ed evolve, perseguendo il comune fine aziendale: ricercare l'eccellenza.

Crediamo fortemente nel valore della progettazione e della produzione Made in Italy e sentiamo il dovere di difenderlo promuovendo qualità e innovazione. Il design delle nostre soluzioni si distingue per l'alto contenuto tecnologico, la ricerca formale e la cura dei dettagli. Esercitiamo un costante controllo dei processi produttivi e della logistica per offrire alti livelli qualitativi e prestazionali. L'intero processo di sviluppo, dalle ottiche alla scelta dei materiali, dalle prove di laboratorio alla produzione automatizzata, si svolge in Italia nei nostri stabilimenti di Osnago e Rovereto. Circoscrivere le nostre attività realizzative nel locale ci consente una produzione più umana: il valore delle nostre soluzioni di luce è da ricercarsi non solo nel processo di sviluppo ma anche nel continuo confronto con le istituzioni e nel continuo scambio di conoscenze e competenze con le realtà produttive del territorio.



3. Italian savoir-faire

Cariboni is an efficient organisational structure, in which every element of the value chain is integrated and evolves, working towards the common company goal: to achieve excellence. We are strong believers in the value of products designed and Made in Italy and feel that it is our duty to uphold those high design and production values by promoting quality and innovation. Our solutions are designed with considerable technology, formal research and attention to detail. We constantly monitor production processes and logistics, to ensure high quality and performance. The whole development process, from optics to choice of materials, from laboratory tests to automated production, is carried out in Italy, at our Osnago and Rovereto factories. Keeping production local allows us to make it more human: the value of our light solutions lies not just in the development process, but also in the constant back and forth with institutions and exchange of knowledge and expertise with local manufacturers.

3. Italienisches Know-how

Die Cariboni Group ist ein effizient strukturierter Konzern, in dem jedes Element der Wertschöpfungskette sich eingliedert und sich entwickelt, um das gemeinsame Ziel des Unternehmens zu erfüllen: Exzellenz zu schaffen. Wir glauben fest an die Bedeutung von Planung und Produktion Made in Italy und sehen uns als Botschafter zur Förderung der Qualität und Innovation. Das Design unserer Produkte zeichnet sich durch hohen technologischen Gehalt, strenge Forschungskriterien und ein Augenmerk für Details aus. Wir unterziehen alle Fertigungs- und Logistikverfahren ständigen Kontrollen, um höchste Qualitäts- und Leistungskriterien bieten zu können. Der gesamte Entwicklungsprozess, von den Optiken bis zur Materialauswahl, von den Laborprüfungen bis zur automatisierten Produktion, erfolgt in unseren Werken Osnago und Rovereto in Italien. Indem wir unsere Fertigungstätigkeit auf lokaler Ebene begrenzen, ermöglichen wir eine menschlichere Dimension der Produktion: So ist der Wert unserer Lichtlösungen nicht nur im Entwicklungsverfahren, sondern auch im ständigen Kontakt mit Institutionen und dem regen Wissens- und Kompetenzaustausch mit Produktionsbetrieben des Territoriums begründet.

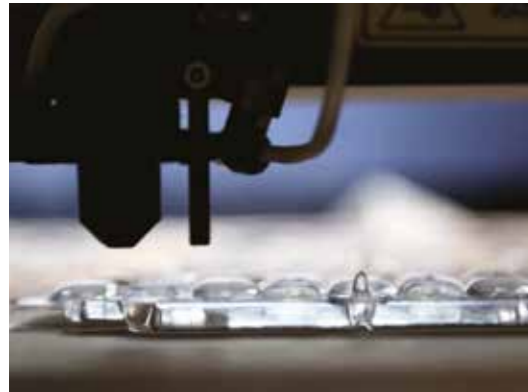


1

1. Ricerca

Il nostro dipartimento di ricerca analizza soluzioni tecnologicamente avanzate per valutare la loro adozione nello sviluppo prodotti.

- Analizza le caratteristiche fotometriche, colorimetriche e radiometriche delle sorgenti luminose per selezionare le soluzioni più adatte ad ogni applicazione e valutare l'impatto che queste avranno sulle persone (biologico e psicologico) e sull'ambiente (qualità, sicurezza e inquinamento luminoso).
- Confronta differenti dispositivi elettronici e propone l'integrazione di componenti in grado di incrementare i livelli di robustezza e affidabilità dei prodotti, di migliorare la gestione dell'impianto e di integrare servizi alla luce. Definisce le linee guida per le partnership con i migliori fornitori.
- Monitora e migliora i processi produttivi per assicurare l'alta qualità in ogni fase dello sviluppo prodotto.



2

2. Sistemi ottici

Il sistema ottico di un apparecchio permette di plasmare la luce emessa dalla sorgente, quest'ultima è la parte caratterizzante nonché la sua essenza. Offriamo una vasta gamma di sistemi ottici per assecondare ogni geometria di spazio e richiesta di progetto. Le nostre attività di sviluppo, finalizzate al conseguimento delle migliori prestazioni illuminotecniche, sono:

- Analisi delle esigenze di progetto e definizione degli obiettivi di performance.
- Sviluppo della soluzione ottica e scelta dei materiali.
- Simulazioni attraverso software dedicati, creazione di un prototipo e verifica.



3

3. Design

Il design dei nostri prodotti consiste in un progetto integrato degli aspetti ottici, elettronici e formali della soluzione di luce. Lo sviluppo di una nuova linea di prodotti nasce solitamente da un'attenta analisi dei contesti applicativi per valutare l'interazione che il sistema di illuminazione avrà con le persone e con l'ambiente. Imprescindibili per noi sono la qualità della luce e della sua distribuzione, il benessere visivo e la sicurezza delle persone, la coerenza formale del sistema e la qualità dello spazio. Le nostre soluzioni sono in grado di rafforzare l'identità dei luoghi senza invadere lo spazio. Sono oggetti eleganti ma discreti che grazie alla purezza delle loro geometrie si adattano ad ogni città. Il nostro impegno è volto a offrire una vasta gamma di soluzioni di luce professionali, adattabili a più contesti e coerenti tra loro per consentire al progettista di adottare differenti prodotti all'interno dello stesso spazio. La nostra offerta di soluzioni si presenta infatti come un sistema dove differenti combinazioni di caratteristiche ottiche, distribuzioni fotometriche e sistemi di gestione del flusso si declinano in forme e sistemi di fissaggio differenti per rispondere al meglio ad ogni progetto.

1. Research

Our research department analyses high-tech solutions to assess whether or not they should be used in product development.

- *It analyses the photometric, colourimetric and radiometric properties of lamps to select the solutions best suited to each application and evaluate their impact on people (biological and psychological) and on the environment (quality, security and light pollution).*
- *It compares different electronic devices and suggests the integration of components capable of increasing product sturdiness and reliability, improving system management and integrating services with light. It sets the guidelines for partnerships with the best suppliers.*
- *It monitors and improves production processes to guarantee high quality at every stage of product development.*

2. Optics

A luminaire's optics allow the light emitted to be shaped. They are the very essence of it, what make it unique. We supply a vast range of optics, to cover spaces of any shape, with any design requirements. Our development work, which aims to provide the best lighting performance, consists of:

- *Analysis of design requirements and definition of performance goals.*
- *Development of solutions in terms of optics and choice of materials.*
- *Simulations using dedicated software, production of prototypes and testing.*

3. Design

The design of our products consists of integrated design of optics and electronics, plus formal design of the lighting solution. Development of a new line of products usually follows careful analysis of application contexts, to assess what interaction the lighting system will have with people and the environment. What is essential for us is light quality and distribution, visual well-being and personal security, the system fitting in and the quality of the space. Our solutions can strengthen the identity of places without taking them over. They are elegant but unobtrusive objects which, thanks to the purity of their geometries, adapt to any city. We are committed to offering a huge range of professional light solutions, adaptable to multiple contexts and a good fit with each other, so that designers can mix and match products within the same space. The solutions we supply form a system, in which different combinations of optics, photometric distributions and flux management systems produce a variety of shapes and fixing systems, to cater for every project.

1. Forschung

Unsere Forschungsabteilung wertet technisch fortschrittliche Lösungen aus, um ihre Eignung für die Produktentwicklung zu beurteilen.

- Dabei werden die photometrischen, kolorimetrischen und radiometrischen Parameter der Lichtkörper analysiert, um die für jeden Anwendungsbereich geeignetsten Lösungen auszuwählen und die Auswirkungen derselben auf die Menschen (in biologischer und psychologischer Hinsicht) und auf die Umwelt (Qualität, Sicherheit und Lichtverschmutzung) zu bewerten.
- Unsere Mitarbeiter vergleichen verschiedene elektronische Geräte miteinander und arbeiten auf die Integration von Bauteilen hin, die die Beanspruchung und Zuverlässigkeit der Produkte vermehren, die Steuerung der Anlage verbessern und praktische Dienste in Licht integrieren. Hier werden die Leitlinien für die Partnerschaften mit den besten Anbietern festgelegt.
- Überwacht und verbessert die Produktionsverfahren, um die hohe Qualität in jeder Phase des entwickelten Produkts zu garantieren.

2. Optische Systeme

Das Optik-System einer Leuchte ermöglicht es, dem von der Lichtquelle ausgehenden Licht Form zu verleihen, es ist das charakterisierende Merkmal und bestimmt das Wesen einer jeden Leuchte. Wir bieten eine breite Auswahl an Optiksyste men, die jeder Flächengeometrie und Projektanforderung entsprechen. Unsere auf das Erreichen der besten beleuchtungstechnischen Leistungen ausgerichteten Entwicklungstätigkeiten beinhalten:

- Analyse der Projektanforderungen und Festlegung der Leistungsvorgaben.
- Ausarbeitung der Optiklösung und Materialauswahl.
- Simulationen durch spezielle Software, Erstellung eines Prototyps und Tests.

3. Design

Das Design unserer Produkte bündelt die optischen, elektronischen und formalen Aspekte der Lichtlösungen. Die Entwicklung einer neuen Produktlinie verdankt sich bei uns immer einer sorgfältigen Analyse der Anwendungskontexte, um das Wechselspiel des Beleuchtungssystems mit den Menschen und der Umgebung zu beurteilen. Dabei sind die Qualität des Lichts und seiner Verteilung, der Sehkomfort, die Sicherheit der Menschen, die formale Kohärenz des Systems und die Lebensqualität des Raums ausschlaggebend. Unsere Lösungen sind in der Lage, Orten stärkere Identitäten zu verleihen, ohne invasiv zu wirken. Sie sind elegante, dabei diskrete Geräte, die sich dank der Reinheit ihrer Formen jeder Stadt anzupassen verstehen. Unser Anspruch ist es, eine breite Auswahl an professionellen, anpassbaren und untereinander kohärenter Lichtlösungen zu bieten, damit Planer unterschiedliche Produkte innerhalb ein und derselben Fläche einsetzen können. So präsentiert sich unser Sortiment wie ein System, in dem unterschiedliche Kombinationen von Optikeigenschaften, photometrischen Merkmalen und Lichtsteuerungssystemen sich in verschiedene Formen und Befestigungslösungen aufgliedern, die maximale Anpassung an Projektvorgaben garantieren.



1

1. Processo produttivo

La nostra filosofia produttiva realizza un rigoroso controllo della filiera in ogni sua fase:

- Processi di produzione automatizzati, in cui le fasi di assemblaggio più delicate sono interamente realizzate da robot antropomorfi in modo da garantire la ripetibilità dei montaggi e la verifica dei componenti.
- Accurati controlli funzionali e di sicurezza su ogni apparecchio al termine del processo di fabbricazione.
- Identificazione seriale di ogni apparecchio per permetterne la tracciabilità e la rintracciabilità dei componenti sino all'invio sul mercato. Software personalizzato per la gestione avanzata dei processi logistici di magazzino, basato su tecnologia a radiofrequenza, con logiche di mappatura dei flussi di materiali e del loro stoccaggio.



2

2. Qualità

Cariboni group persegue la Qualità Totale, basandosi sui seguenti principi guida:

- La certificazione ISO 9001:2015, che assicura il controllo del processo produttivo e la sua efficacia in merito alla qualità del prodotto realizzato.
- Il riconoscimento CTFs (Customers' Testing Facilities) rilasciato da IMQ al nostro laboratorio, che garantisce la conformità dei test e delle apparecchiature utilizzate alle norme europee ed internazionali vigenti.
- La Marcatura ENEC, la quale certifica che tutti i nostri prodotti osservino le norme di sicurezza vigenti in Europa, nonché la loro verifica periodica da parte di IMQ.
- I controlli dei materiali in ingresso, che vengono effettuati secondo piani statistici e tramite una valutazione del grado di servizio dei fornitori.
- Il livello di conoscenza tecnica dei nostri esperti, frutto di programmi di formazione professionale e di collaborazione con istituzioni, università ed enti di ricerca tecnologica.



3

3. Progettazione illuminotecnica

Possediamo elevata competenza nell'ambito della tecnologia LED e un'approfondita conoscenza di tutti gli aspetti normativi e legislativi in merito all'illuminazione urbana (inquinamento luminoso, energy saving, smart lighting). Offriamo assistenza e supporto a progettisti, distributori, installatori ed enti pubblici in merito alla progettazione di impianti di illuminazione in ambienti indoor e outdoor. La nostra assistenza si sviluppa sui seguenti punti chiave:

- Analisi progettuali legate alle dinamiche del luogo da illuminare.
- Definizione lighting concept.
- Scelta dei corpi illuminanti.
- Modellazione 3D, fotoinserimenti.
- Calcoli illuminotecnici.
- Output di progetto (pdf calcoli, book personalizzato, rendering, tavole con posizionamento).

1. Production process

Our production philosophy involves rigorous checking of the chain at every stage:

- *Automated production processes, with the most delicate assembly steps completely carried out by anthropomorphic robots to guarantee assembly repeatability and component testing.*
- *Thorough operating and safety checks on every luminaire at the end of manufacturing.*
- *Serial number identification of each luminaire, for tracking and traceability of components until products are sent to market. Customised software for advanced management of warehouse logistics processes, based on radio-frequency technology, with mapping of materials flows and their storage.*

2. Quality

Cariboni group aims for Total Quality, based on the following guiding principles:

- *ISO 9001:2015 certification, which guarantees control of the production process and its effectiveness concerning the quality of the product made.*
- *CTFs (Customers' Testing Facilities) award, issued by IMQ to our laboratory, guaranteeing that our tests and equipment used comply with current European and international standards.*
- *ENEC mark, certifying that all of our products comply with current European safety standards, as well as their regular testing by IMQ.*
- *Materials inwards checks, carried out in accordance with statistical plans and through assessment of the level of service from suppliers.*
- *Our experts' level of technical knowledge, the result of professional training programmes and cooperation with institutions, universities and technological research bodies.*

3. Lighting design

We are experts in LED technology, with an in-depth knowledge of all laws and regulations on urban lighting (light pollution, energy saving, smart lighting). We provide assistance and support to designers, dealers, fitters and public bodies relating to the design of indoor and outdoor lighting systems. Key features of our assistance:

- *Design analysis linked to the way the place to be lit is used.*
- *Lighting concept definition.*
- *Selection of luminaires.*
- *3D modelling, renderings.*
- *Lighting design calculations.*
- *Design output (pdf of calculations, customised book, renderings, plates showing positioning).*

1. Produktionsverfahren

Unsere Produktionsphilosophie sieht strenge Kontrollen der Lieferkette in jeder ihrer Phasen vor:

- Automatisierte Produktionsverfahren, deren komplexeste Zusammenbauphasen vollständig von anthropomorphen Robotern vorgenommen werden und die die Wiederholbarkeit der Einbauphasen und die Komponentenprüfung garantieren.
- Akkurate Funktions- und Sicherheitskontrollen für alle Geräte am Ende des Herstellungsprozesses.
- Serielle Identifizierung jedes Geräts, um seine Rückverfolgbarkeit und Auffindung von Bauteilen bis zur Versendung an den Markt zu garantieren. Personalisierte Software für das erweiterte Management der logistischen Abläufe im Lager, basierend auf Technologie und Funketiketten, mit Verortungslogiken des Materialflusses und seiner Lagerung.

2. Qualität

Cariboni Group ist dem Siegel der Qualität Totale verpflichtet, was die folgenden Leitlinien einschließt:

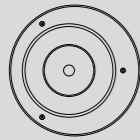
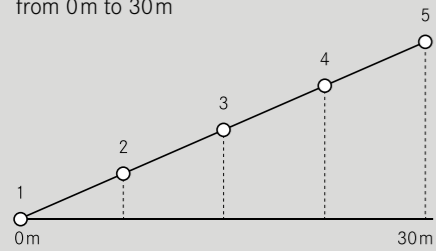
- Die Zertifizierung ISO 9001:2015, die die Kontrolle des Produktionsprozesses und seine Auswirkungen auf die Qualität des fertigen Produkts garantiert.
- Die Auszeichnung CTFs (Customers' Testing Facilities), die von IMQ für unser Labor erlassen wurde und die Übereinstimmung der Tests und der verwendeten Geräte mit den geltenden europäischen und internationalen Vorschriften garantiert.
- ENEC-Kennzeichnung, welche bescheinigt, dass alle unsere Produkte die in Europa geltenden Sicherheitsvorschriften einhalten und regelmäßig vom IMQ darauf überprüft werden.
- Kontrollen des eingehenden Materials, welche auf statistischen Plänen und einer Überprüfung der Servicegüte der Lieferanten beruhen.
- Die umfassenden technischen Kenntnisse unserer Fachleute, die Ergebnis von Fortbildungsprogrammen in Zusammenarbeit mit unabhängigen Dritten, Universitäten und technischen Forschungsinstituten sind.

3. Beleuchtungskonzepte

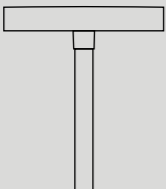
Wir besitzen umfassendes Know-how im Bereich der LED-Technologie und sind mit sämtlichen Aspekten nationaler und internationaler Normen und Vorschriften hinsichtlich der städtischen Beleuchtung (Lichtsmog, Energy Saving, Smart Lighting) bestens vertraut. Wir leisten Planern, Vertriebspartnern, Anlagentechnikern und öffentlichen Stellen bei der Planung von Lichtanlagen in Indoor- und Outdoor-Bereichen Beratung und Unterstützung. Unser Kundenservice basiert auf folgenden zentralen Punkten:

- Projektanalysen für die Berücksichtigung der Dynamiken des zu beleuchtenden Ortes.
- Definition des Lighting Concept.
- Wahl der Leuchtkörper.
- 3D-Modelle, Einstellung von Fotos.
- Beleuchtungstechnische Berechnungen.
- Projekt-Output (PDF-Berechnungen, personalisierte Books, Rendering, Tabellen mit Positionierung).

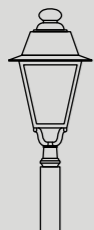
we design products
from 0m to 30m



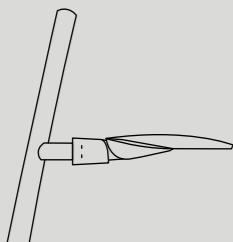
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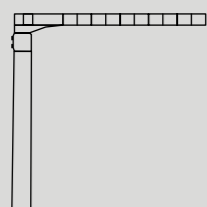
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3



4



5

Proponiamo soluzioni professionali, sistemiche e altamente tecnologiche per illuminare nelle città ogni percorso, spazio o architettura. Siamo consapevoli delle specificità funzionali, architettoniche e culturali di ogni spazio e proponiamo una vasta gamma di sistemi ottici e distribuzioni fotometriche. Illuminiamo tutta la città, dalla periferia al centro, da zero a trenta metri, e ogni prodotto è specificatamente pensato per il differente contesto di utilizzo. Riduciamo consumi e inquinamento con l'alta efficienza dei nostri sistemi ottici e con flussi luminosi dinamici che permettono di custodire l'oscurità quando la luce non è necessaria e di garantire a pedoni e automobilisti una notte accessibile e sicura. Integriamo alla luce tecnologie innovative perché le città siano davvero in grado di offrire sempre più servizi alle persone. Consideriamo prioritaria la centralità delle persone in ogni nostra attività: non solo di chi vivrà lo spazio da noi illuminato ma di tutti coloro che utilizzeranno le nostre soluzioni, dai progettisti agli installatori. Non ci limitiamo a proporre prodotti di illuminazione ma offriamo sistemi di luce professionali, consulenza illuminotecnica e materiale di supporto al progetto. Siamo sempre accanto ai nostri clienti nel processo di selezione, acquisto e utilizzo.

Sistemi ottici

L'essenza delle nostre soluzioni va ricercata nei sistemi ottici. La tecnologia LED ci ha permesso di differenziare la nostra offerta consentendoci oggi di rendere disponibile selezioni cromatiche e distribuzioni fotometriche in grado di soddisfare le richieste di ogni architettura, spazio e percorso urbano.

Sviluppiamo ottiche dedicate alle differenti geometrie urbane e siamo attenti alle esigenze tecniche di ogni area geografica di nostro interesse.

Lo sviluppo dei sistemi ottici tiene conto:

- dell'altezza installativa, del punto di vista dell'occhio umano e dei livelli di qualità della luce necessari per garantire il giusto comfort visivo, la riduzione di abbagliamento e l'assenza di rischio fotobiologico;
- del contesto installativo, del tipo di traffico e dell'uniformità necessaria per la sicurezza di pedoni, ciclisti e automobilisti;
- del fissaggio e dell'orientamento del prodotto, dell'impatto della luce su persone e ambiente e della distribuzione del flusso per ridurre consumi, emissioni di luce verso l'alto e numero di punti luce.

We provide professional, systemic and high-tech lighting solutions for all city routes, spaces and architecture. We are aware of the specific practical, architectural and cultural aspects of every space and propose a wide range of optics and photometric distribution systems. We light the whole city, from the outskirts to the centre, from zero to thirty metres, and every product is specifically devised for the different context in which it is used.

We cut consumption and pollution with the high efficiency of our optics and with dynamic light flows that allow areas of shadow to be preserved where light is not needed and guarantee pedestrians and drivers a safe, accessible night-time.

We combine light with innovative technologies, so that cities can really offer people ever more services.

We put people at the centre of everything that we do: not just considering who will live in the spaces that we light, but everyone who will use our solutions, from designers to fitters. We don't just offer lighting products. We supply professional light systems, lighting consulting services and project support material.

We are always there to guide our customers through the whole process, from selection to purchase and use.

Optics

The essence of our solutions lies in the optics. LED technology has allowed us to supply something different. We make available colour selections and photometric distributions suitable for any urban route, architecture and space.

We develop optics dedicated to the different urban geometries and are sensitive to the technical needs of every geographical area we are involved in.

Development of optics takes into account:

- *installation height, point of view of the human eye and light quality levels necessary to guarantee correct visual comfort, glare reduction and absence of photobiological risk;*
- *installation context, type of traffic and uniformity necessary for pedestrian, cyclist and motor vehicle safety;*
- *product fixing and orientation, impact of light on people and the environment and distribution of flux so as to reduce consumption, upward light emissions and the number of luminaires.*

Wir bieten professionelle, systemische und hochtechnologische Lösungen zur Beleuchtung von Wegen, Flächen oder Architekturen in Städten. Wir besitzen ein Gespür für die funktionalen, architektonischen und kulturellen Konnotationen jeder einzelnen Fläche und bieten daher ein breites Sortiment an Optiksyste men und Lichtverteilungsmerkmalen. Wir beleuchten die gesamte Stadt, von der Peripherie bis ins Zentrum, von null bis dreißig Meter, wobei jedes Produkt spezifisch für das jeweilige Einsatzumfeld konzipiert wird. Wir reduzieren Energieverbrauch und Verschmutzung mit der hohen Effizienz unserer Optiksyste me und dynamischem Lichtfluss, die nur dort Licht ausstrahlen, wo es benötigt wird und Fußgängern und Kraftfahrern die Dunkelheit auf sichere Art und Weise erschließen.

Wir integrieren Licht mit innovativen Lösungen, damit die Städte auch wirklich immer mehr Menschen immer mehr Serviceleistungen bieten können.

Für uns stehen die Menschen in allen Belangen im Mittelpunkt: Nicht nur jene, die in den von uns beleuchteten Flächen leben, sondern alle Menschen, die unsere Lösungen nutzen, von Planern bis zu Anlagentechnikern. Wir belassen es nicht dabei, bloße Beleuchtungsprodukte anzubieten, sondern stehen für professionelle Lichtsysteme, beleuchtungstechnische und Materialberatung zur Projektunterstützung.

Wir stehen unseren Kunden beim Auswahl-, Einkaufs- und Nutzungsprozess zuverlässig zur Seite.

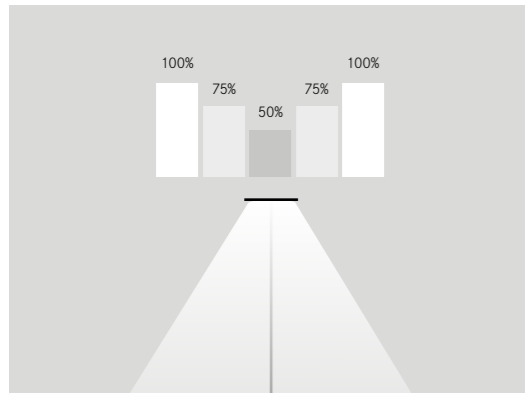
Optische systeme

Das Wesen unserer Lösungen liegt in den Optiksyste men begründet. Die LED-Technologie hat uns die Auffächerung unseres Sortiments ermöglicht, so dass wir heute Farbenwahlmöglichkeiten und Lichtverteilungen anbieten können, die die Anforderungen aller Arten von Architekturen, Flächen und Verkehrswegen erfüllen.

Wir entwickeln Optiken für die verschiedenen städtischen Geometrien und haben ein Auge für die technischen Erfordernisse jeder geographischen Region, in der wir arbeiten.

Bei der Entwicklung unserer Optiksyste me achten wir auf:

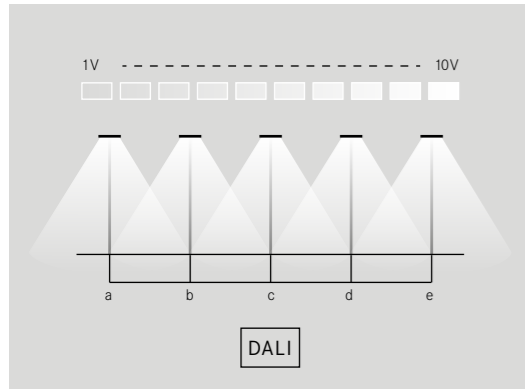
- Die Einbauhöhe, die Perspektive des menschlichen Auges und auf das Qualitätsniveau der notwendigen Lichtintensität für den richtigen Sehkomfort, die Blendreduktion und die Ausschaltung des fotobiologischen Risikos;
- Den Einbaustandort, die Art des Verkehrs und die notwendige Gleichförmigkeit des Lichts für die Sicherheit von Fußgängern, Rad- und Kraftfahrern;
- Die richtige Befestigung und Ausrichtung des Produkts, die Auswirkungen des Lichts auf die Menschen und die Umwelt sowie auf die Lichtverteilung, um Verbrauch, Lichtemissionen nach oben und die Anzahl der Lichtpunkte zu senken.



1

Prodotti

La ricerca, lo sviluppo e la produzione delle nostre soluzioni è orientata alla realizzazione di prodotti professionali e affidabili. Una vasta gamma che copre ogni tipo di installazione necessaria all'illuminazione outdoor. Negli ultimi anni, grazie alla crescente esperienza e allo sviluppo tecnologico, sono stati incrementati i livelli di robustezza sia dal punto di vista meccanico (resistenza agli urti, agli atti vandalici, agli agenti atmosferici, all'umidità, ai composti organici volatili) che elettrico (sovratensioni e scariche elettrostatiche). Per una maggiore durata nel tempo delle nostre soluzioni si scelgono i migliori componenti e si realizzano prodotti che possano funzionare a temperature di esercizio estreme di gran lunga superiori o inferiori a quelle reali. Tutti i test di validazioni svolti nei nostri laboratori sono eseguiti a condizioni estreme per una maggiore garanzia di affidabilità e una riduzione degli interventi di manutenzione.



2

Sistemi di regolazione del flusso

Le nostre soluzioni mirano ad un'illuminazione intelligente dell'ambiente che garantisca il maggior risparmio energetico e un veloce ritorno degli investimenti ai nostri clienti. Per un'illuminazione adattiva, che tenga conto del contesto e dell'utenza, rendiamo disponibili differenti sistemi di regolazione:

1. Sistemi stand-alone

- Mezzanotte virtuale
- Sensori di luminosità

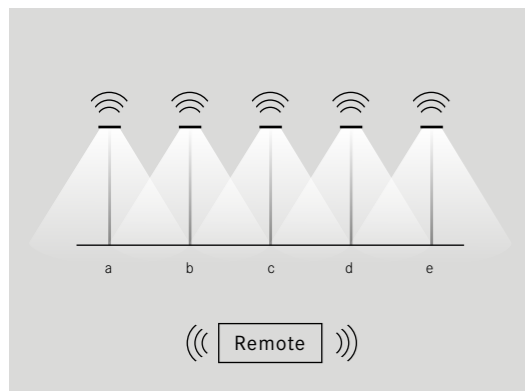
2. Sistemi di group-management

- 1-10V: controllo di tipo analogico
- DALI: controllo di tipo digitale
- Sensori di movimento

3. Sistemi di telegestione

- Telegestione ad onde convogliate
- Telegestione wireless

I sistemi di telegestione, oltre a contenere i consumi e le spese di gestione, predispongono l'infrastruttura utile ad ospitare altri sistemi o servizi per il territorio compatibili con i più innovativi progetti di smart lighting.



3

Products

Research, development and production of our solutions is geared towards making professional, reliable products. A huge range that covers every type of installation necessary for outdoor lighting. In recent years, thanks to more experience and technological development, levels of robustness have been increased, both mechanical (resistance to knocks, vandalism, weather, moisture, volatile organic compounds) and electrical (over-voltages and electrostatic discharges). To ensure that our solutions are longer lasting, we select the best components and make products that can operate at extreme operating temperatures much higher or lower than those actually encountered. All validation tests performed in our laboratories are carried out in extreme conditions for a better guarantee of reliability and reduced maintenance.

Flux adjustment systems

Our solutions aim to provide smart lighting of the environment, guaranteeing the biggest energy savings and a quick return on customer investments. For adaptive lighting, which takes into account the context and use, we make available various adjusting systems:

1. Stand-alone systems

- Virtual midnight
- Brightness sensors

2. Group-management systems

- 1-10V: analogue control
- DALI: digital control
- Movement sensors

3. Remote management systems

- Power line communication remote management
- Wireless remote management

In addition to reducing consumption and running costs, remote management systems provide an infrastructure that is useful for hosting other local systems or services that are compatible with the latest smart lighting projects.

Produkte

Die Forschung, Entwicklung und Fertigung unserer Lösungen zielen auf die Realisierung professioneller und zuverlässiger Produkte ab. In unserem Sortiment ist jeder für die Außenbeleuchtung benötigte Einbautyp enthalten. Dank der wachsenden Erfahrung und der technischen Entwicklung konnte die Beständigkeit unserer Produkte in den letzten Jahren sowohl in mechanischer (Stoßfestigkeit, Beständigkeit gegenüber Vandalismus, Witterungseinflüssen, Feuchtigkeit, flüchtige organische Stoffe) als auch gegenüber elektrischen Einwirkungen (Überspannungen und elektrostatische Entladungen) verbessert werden. Für die längere Einsatzdauer unserer Leuchten sorgen Bauteile mit der besten Materialgüte, mit denen Produkte gefertigt werden, die in Tests extremen Betriebstemperaturen standhalten müssen, die weit und unter den realen Temperaturen liegen. Alle in unseren Labors durchgeführten Validierungstests werden unter extremen Bedingungen für eine bessere Zuverlässigkeitsgarantie und einen wartungsarmen Betrieb durchgeführt.

Lichtfluss-Regulierungssysteme

Unsere Lösungen zielen auf eine intelligente Beleuchtung von Flächen mit der bestmöglichen Energieeinsparung und einer schnellen Rendite für unsere Kunden. Für eine anpassungsfähige Beleuchtung, die dem Umfeld und dem Nutzerkreis angemessen ist, bieten wir unterschiedliche Regulierungssysteme:

1. Stand-alone-Systeme

- Virtuelles Mitternachts-System
- Helligkeitssensoren

2. Group Management-Systeme

- 1-10V: Steuerungssystem vom analogen Typ
- DALI: Steuerungssystem vom digitalen Typ
- Bewegungssensoren

3. Fernwirkungssysteme

- Fernwirkungssysteme mit Powerline-Technologie
- Wireless-Fernsteuerung

Neben Einsparungen im Verbrauch und bei Instandhaltungskosten bieten Fernwirkungssysteme eine IP-Infrastruktur, um andere Systeme oder Dienste für das Gebiet zu hosten, die mit den innovativsten Smart Lighting-Projekten kompatibel sind.



Mettiamo a disposizione di progettisti e clienti la nostra lunga storia nel settore, la profonda esperienza e le conoscenze acquisite per offrire assistenza e supporto attraverso:

- Strumenti di supporto al progetto come librerie digitali (.ldt, .ies, .rfa) e software.
- Sito internet con dati sempre aggiornati, news su prodotti e progetti, informazioni di settore.
- Progettazione illuminotecnica.
- Guida alla scelta delle soluzioni.
- Sopralluoghi nelle aree di progetto.
- Assistenza alla posa, all'installazione e all'avviamento degli impianti.
- Collaudi illuminotecnici degli impianti realizzati.

Soluzioni custom

Quando necessario sviluppiamo soluzioni personalizzate per i nostri clienti con sistemi ottici, prodotti e tecnologie di smart lighting pensati appositamente per lo specifico progetto.

We make available to designers and customers our extensive experience and expertise in the sector, plus our know-how, providing support and advice via:

- *Design support tools such as digital libraries (.ldt, .ies, .rfa) and software.*
- *Our website with data that is always up-to-date, news about products and projects, sector information.*
- *Lighting design.*
- *Guide to selecting solutions.*
- *On-the-spot inspections of project areas.*
- *Assistance laying, installing and starting up systems.*
- *Lighting testing for the systems produced.*

Custom solutions

When necessary, we develop custom solutions for our customers using smart lighting optics, products and technologies specially designed for the specific project.

Wir unterstützen und beraten Planer und Kunden mit unserer langen Geschichte in der Branche, der reichlichen Erfahrung und dem mit der Zeit erworbenen Fachkenntnis auf vielerlei Art und Weise:

- Projektunterstützende Instrumente wie digitale Bibliotheken (.ldt, .ies, .rfa) und Software.
- Website mit stets aktuellen Daten, News zu Produkten und Projekten, Brancheninformationen.
- Beleuchtungsplanung.
- Anleitung zur Auswahl der passenden Beleuchtungslösung.
- Inspektionen der Projektbereiche.
- Assistenz bei der Verlegung, dem Einbau und der Inbetriebnahme der Anlagen.
- Beleuchtungstechnische Abnahme von realisierten Lichanlagen.

Custom-Lösungen

Wenn nötig, entwickeln wir personalisierte Lösungen für unsere Kunden mit Optiksystemen, Smart Lighting-Produkten und -Technologien, die eigens für das jeweilige Projekt konzipiert wurden.

Architetture e giardini

Soluzioni di luce per l'illuminazione d'accento e diffusa di architetture, monumenti, aree verdi, luoghi per la cultura, l'incontro e il tempo libero.

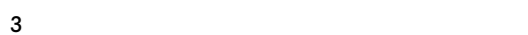
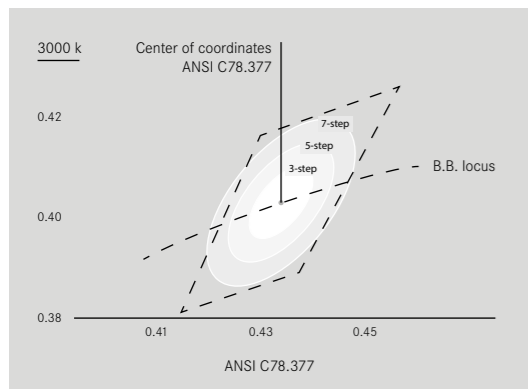
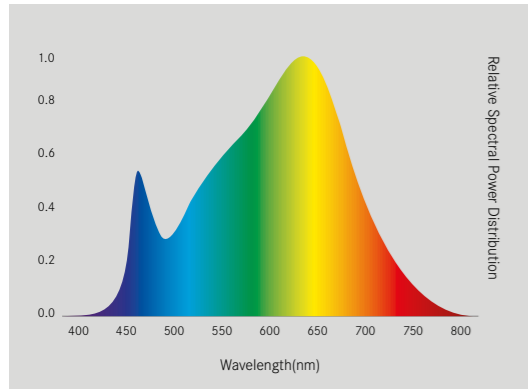
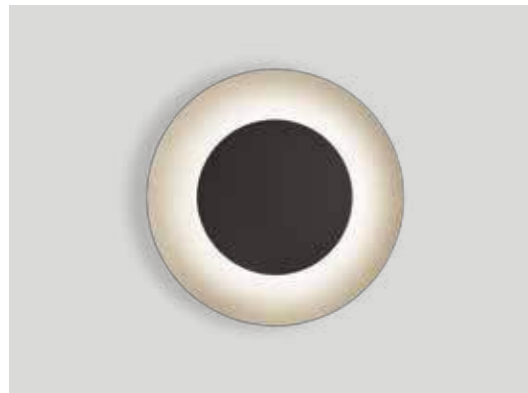
Architecture and gardens

Light solutions for accent and diffused lighting of architecture, monuments, parks and cultural, social and leisure spaces.

Gebäude und gärten

Lichtlösungen für die akzentuierte oder diffuse Beleuchtung von architektonischen Objekten, Denkmälern, Grünbereichen, Kulturstätten und Orten für Begegnung und Freizeit.





1. Comfort visivo: Illuminazione indiretta

Il comfort visivo in contesto outdoor è una condizione di benessere vissuta durante le ore di buio in un ambiente opportunamente illuminato con sorgenti artificiali. Sistemi ottici a luce indiretta impediscono l'abbagliamento, generano una luce morbida e rendono lo spazio più piacevole.

2. Sfumature di colore: Indice di resa cromatica (CRI)

L'indice di resa cromatica (CRI: Color Rendering Index) di una sorgente luminosa è una misura di quanto naturali appaiano i colori degli oggetti da essa illuminati. Una sorgente bianca può essere caratterizzata da un'emissione spettrale più o meno completa, con la conseguenza che non tutti i colori saranno egualmente visibili ai nostri occhi. Questo aspetto risulta importante soprattutto in relazione ai materiali e alle tipologie d'ambiente che si vogliono illuminare. Più è alto il CRI, più si riduce l'efficienza della sorgente. Se per una strada extraurbana è sufficiente un CRI 70 che garantisce maggiore efficienza, per uno spazio pedonale o per un'architettura è più opportuno optare per un CRI 80 o 90 che consente di discriminare meglio le sfumature di colore.

3. Omogeneità della luce: step MacAdam (SDCM, Standard Deviation Colour Matching)

Le sorgenti LED non emettono una luce perfettamente bianca, ma con tonalità prossime che possono essere "correlate" ad una determinata temperatura colore. Sorgenti di luce bianca con la stessa temperatura di colore nominale, potrebbero apparire diverse tra loro. Alcune differenze di colore dipendono dal processo di produzione (consistenza del colore), altre dal tempo di funzionamento (costanza del colore). Le differenze di colore si misurano in ellissi di MacAdam, la cui ampiezza è indicata in step, ovvero deviazioni standard. Per ogni coordinata cromatica è descritta una prima ellissi attorno a questo punto che equivale a 1-step; di seguito si avranno ellissi via via più ampie che indicheranno gli step successivi (2-step, 3-step, ecc.): in pratica, maggiore sarà lo step, maggiore sarà la deviazione cromatica e la possibilità di discriminarla.

1. Visual comfort: Indirect lighting

Visual comfort in outdoor contexts is a condition of well-being experienced at night in spaces that are properly lit with artificial sources. Indirect light optical systems prevent glare, generate a soft light and render the space more enjoyable.

2. Colour gradation: Colour Rendering Index (CRI)

The Colour Rendering Index (CRI) of a light source is a measurement of the ability of a light to faithfully reveal the colour of objects. A white source can have a more or less complete spectrum and, consequently, not all colours will be equally visible to our eyes. This aspect is especially important in relation to the materials and types of spaces being illuminated. The higher the CRI the lower the efficiency of the source. If for an extra urban street a CRI 70, which guarantees greater efficiency, is sufficient, for a pedestrian space or for architecture a CRI 80 or 90, which allows for a better perception of the colour differences, is preferable.

3. Uniform light: step MacAdam (SDCM, Standard Deviation Colour Matching)

LED light sources do not produce a perfectly white light, but tonalities that can be correlated to a specific colour temperature. White light sources with the same nominal colour temperature could appear different to each other. Certain differences in colour depend on the production process (consistency of the colour) and others on the operating time (constance of the colour). The colour differences are measured in MacAdam ellipses, whose width is divided in steps, or standard deviations. For each colour coordinate a first ellipse is drawn around this point, which is the first step. The subsequent wider ellipses will mark the following steps (2-step, 3-step, etc.). In other words the higher the step, the greater the colour deviation and the possibility of distinguishing it.

1. Sehkomfort: Indirekte Beleuchtung

Sehkomfort in Außenbereichen ist ein Zustand des Wohlbefindens bei Dunkelheit in einem Umfeld, das durch künstliche Lichtquellen angemessen beleuchtet ist. Optische Systeme mit indirektem Licht verhindern Blendeffekte, erzeugen ein weiches Licht und bewirken eine angenehme Wahrnehmung des Raums.

2. Farbnuancen: Farbwiedergabe-Index (CRI)

Der Farbwiedergabe-Index (CRI: Color Rendering Index) ist eine Größe, die ausdrückt, wie originalgetreu eine Lichtquelle die Farben der von ihr beleuchteten Objekte wiedergibt. Ein weißes Leuchtmittel kann sich durch eine spektrale Strahlenverteilung auszeichnen, die mehr oder weniger vollständig ist, was dazu führt, dass für unsere Augen nicht alle Farben gleichermaßen sichtbar sind. Dieser Aspekt ist bezüglich der Materialien und der Umgebungen wichtig, die beleuchtet werden sollen. Je höher der CRI ist, desto geringer wird die Effizienz des Leuchtmittels. Während für die Beleuchtung einer außerstädtischen Straße ein CRI 70, der eine hohe Effizienz gewährleistet, ausreichend ist, eignet sich für eine Fußgängerzone oder ein architektonisches Objekt eher ein CRI 80 oder 90, der eine differenziertere Wahrnehmung der Farbnuancen ermöglicht.

3. Gleichförmigkeit des Lichts: Step MacAdam (SDCM, Standard Deviation Colour Matching)

LED-Leuchtmittel erzeugen kein perfekt weißes, sondern ein nahezu weißes Licht mit Nuancen, die mit einer bestimmten Farbtemperatur in Verbindung gebracht werden können. Weiße Leuchtmittel mit der gleichen Nennfarbtemperatur können anscheinend unterschiedliche Farbtemperaturen besitzen. Einige Unterschiede in der Farbtemperatur hängen vom Herstellungsprozess (Farbkonsistenz), andere von der Betriebszeit (Farbkonzanz) ab. Die Farbunterschiede werden in MacAdam Ellipsen gemessen, deren Weite in Stufen, d.h. in Standardabweichungen ausgedrückt wird. Für jede chromatische Koordinate wird eine erste Ellipse um diesen Punkt beschrieben, die der Stufe 1 entspricht; es folgen weitere Ellipsen von wachsender Größe, die den nächsten Stufen entsprechen (Stufe 2, Stufe 3 etc.): Je höher die Stufe, desto größer die chromatische Abweichung und die Möglichkeit, diese zu unterscheiden.



1



**1. Resistenza agli agenti chimici e atmosferici:
Finitura dei prodotti**

Tutti i prodotti Cariboni prima della verniciatura subiscono un trattamento di fosfocromatazione: un processo di passivazione ottenuto per immersione del pezzo metallico in una soluzione di acido fosforico e acido cromico. Tale ciclo consente di favorire l'ancoraggio del successivo strato di vernice, di migliorare notevolmente la resistenza alla corrosione e di conservare le proprietà elettriche del particolare. Il rivestimento finale è realizzato con verniciatura a polveri, migliore rispetto alla vernice liquida in termini di durezza ed elasticità. I componenti vengono ricoperti di polvere verniciante a base di resine sintetiche (polvere epossidica e poliestere), che aderisce per effetto elettrostatico, e poi passati in un forno dove grazie alla temperatura la vernice prima fonde e poi polimerizza formando uno strato aderente. Il processo di verniciatura avviene in sedici fasi studiate per la miglior resistenza agli agenti atmosferici. L'innovativo trattamento con specifici composti nanocompositi permette di incrementare del 10-15% la resistenza all'umidità e alle corrosioni ad opera di agenti aggressivi, chimici e atmosferici.

**2. Protezione dalle infiltrazioni di umidità e acqua:
Sistema ultra-dry**

I prodotti Cariboni che possono essere installati in condizioni critiche di utilizzo, a diretto contatto con il terreno o il pavimento (in-ground o on-ground), includono uno speciale sistema anti-condensa che impedisce all'umidità presente nel cavo di entrare, attraverso i trefoli, fino a raggiungere il prodotto installato.

3. Assenza di schermo ottico: Screen-less

Alcuni nuovi prodotti Cariboni assicurano il giusto grado di protezione contro corpi solidi e liquidi (grado IP) pur eliminando schermi protettivi in vetro o plastica, che sono solitamente la parte più fragile dei prodotti. Queste soluzioni permettono di ridurre gli interventi di manutenzione o sostituzione dei punti luce e di ottenere prodotti più sicuri in cui è completamente esclusa la possibilità di rottura e caduta di pezzi di plastica o vetro.



2



3



**1. Resistance to chemical and atmospheric agents:
Product finish**

Prior to painting all Cariboni products undergo a phosphochromatizing treatment, which is a passivation process obtained by dipping the metal parts in a solution of phosphoric acid and chromic acid. This process ensures a better grip of the subsequent layer of paint, considerably improves the resistance to corrosion and maintains the electrical properties of the part. The final powder coating provides greater hardness and elasticity compared to liquid paint. The components are coated electrostatically with synthetic resin powder paint (epoxy and polyester powder) and then cured in an oven, where the high temperature melts and then polymerises the paint, forming a hard layer. The painting process consists of sixteen stages designed to provide maximum resistance against atmospheric agents. The innovative treatment with specific nanocomposites increases the resistance to humidity and corrosion by aggressive, chemical and atmospheric agents by 10-15%.

**2. Protection from humidity infiltrations and water:
Ultra-dry system**

Cariboni products designed to be installed in critical conditions, in direct contact with the ground or flooring (in-ground or on-ground), include a special anti-condensation system that prevents the humidity present in the cable to enter, through the strands, and reach the product installed.

3. No optical screen: Screen-less

Certain new Cariboni products guarantee the required degree of protection against solid and liquid bodies (IP), even without the protective glass or plastic screens, that are usually the most fragile part of the products. These solutions reduce the maintenance or replacement interventions of the lights and achieve safer products, where the possibility of breaking or falling pieces of plastic or glass is completely excluded.

1. Widerstandsfähigkeit gegen chemische und atmosphärische Einflüsse: Oberflächenbearbeitung der Produkte

Alle Cariboni Produkte werden vor der Lackierung der Phosphochromatierung unterzogen: einem Passivierungsverfahren, bei dem das Metallteil in eine Lösung aus Phosphorsäure und Chromsäure eingetaucht wird. Dieser Bearbeitungszyklus verbessert die Haftung der anschließend aufgetragenen Lackschicht, steigert die Korrosionsfestigkeit und gewährleistet eine höhere Beständigkeit der elektrischen Eigenschaften des behandelten Teils. Für die endgültige Lackierung wird Pulverlack verwendet, der im Vergleich zu Flüssiglack bessere Eigenschaften hinsichtlich der Härte und der Elastizität aufweisen kann. Die Komponenten werden mit einem Beschichtungspulver auf Kunstharzbasis (Epoxid- und Polyesterpulver) besprüht, das durch den Effekt der elektrostatischen Aufladung an der Oberfläche anhaftet. Anschließend durchlaufen sie einen Ofen, in dem das Farbpulver erst schmilzt und dann polymerisiert, sodass es eine haftfeste Schicht bildet. Das aus sechzehn Phasen bestehende Lackierungsverfahren hat den Zweck, die höchstmögliche Widerstandsfähigkeit der Komponenten gegen atmosphärische Einflüsse zu erzielen. Dank der innovativen Behandlung mit Nano-Verbundstoffen kann die Widerstandsfähigkeit gegen Feuchtigkeit und Korrosionsprozesse, die durch aggressive chemische Substanzen oder durch Witterungseinflüsse verursacht werden, um 10-15% reduziert werden.

2. Schutz gegen Eindringen von Feuchtigkeit und Wasser: Ultra-dry-System

Die Produkte von Cariboni, die mit direktem Kontakt zum Erdboden oder Boden installiert werden (in-ground oder on-ground) und daher rauen Umgebungsbedingungen ausgesetzt sind, sind mit einem speziellen Anti-Kondenswasser-System ausgestattet, das verhindert, dass die im Kabel vorhandene Feuchtigkeit durch die Einzelleiter eindringt und das installierte Produkt erreicht.

3. Ohne Schutzschirm: Screenless

Einige der neuen Produkte von Cariboni besitzen die geeignete Schutzart gegen Eindringen von Festkörpern und Flüssigkeiten (IP-Schutzart), obwohl sie nicht mit Glas- oder Kunststoffschirmen ausgestattet sind, die in der Regel die zerbrechlichste Komponente eines Produkts darstellen. Diese Lösungen zeichnen sich durch einen geringeren Wartungsaufwand, seltenere Eingriffe zum Auswechseln der Lichtpunkte und durch eine höhere Sicherheit aus, da keine Gefahr besteht, dass Kunststoff- oder Glasteile brechen oder fallen können.



4



4. Miniaturizzazione dei prodotti: riduzione degli ingombri e delle profondità di incasso

I prodotti Cariboni sono progettati per essere discreti e quasi invisibili negli spazi urbani. Le dimensioni sono sempre compatte e le forme non sono mai scultoree. Non sono mai i prodotti ad essere protagonisti degli spazi ma la loro luce che valorizza i luoghi silenziosamente. L'orientamento alla miniaturizzazione si riflette anche negli ultimi sistemi di luce ad incasso. In questo caso la scelta ha una motivazione tecnica che è quella di consentire l'installazione dei prodotti in qualsiasi tipo di supporto, anche pavimenti flottanti, controsoffitti e contropareti con profondità ridotte.

4. Miniaturisation of the products: reduction of the recessed sizes and depths

Cariboni products have been designed to be discreet and almost invisible in urban spaces. The dimensions are always compact and the shapes are never sculptural. It is never the products that take centre stage of the spaces, but the light they produce, which enhances the locations silently. The miniaturisation approach can also be found in the latest recessed light systems. In this case it was dictated by a technical motivation: ensuring that the products can be installed on any type of support, even raised floors, false ceilings and walls with small depths.

4. Miniaturisierung der Produkte: kleinere Abmessung, reduzierte Einbautiefe

Die Produkte von Cariboni sind dafür konzipiert, sich diskret und fast unsichtbar in die urbanen Bereiche zu integrieren. Ihre Abmessungen sind immer kompakt, ihre Formen nie skulpturhaft. Nie sind sie es, die als Protagonisten der Räume auftreten, sondern immer ist es ihr Licht, das die Orte lautlos zur Geltung kommen lässt. Unsere Ausrichtung auf Miniaturisierung spiegelt sich auch in unseren neuesten Einbauleuchten wider. Bei diesen Systemen fiel die Wahl aus technischen Gründen auf minimale Produktabmessungen: Es sollte möglich sein, die Produkte in beliebigen Trägern zu installieren, auch in schwimmenden Bodenbelägen, abgehängten Decken und Isolierwänden mit reduzierter Tiefe.



5



5. Riduzione accumulo sporco: assenza di alette di dissipazione

I nuovi prodotti Cariboni sono progettati per ottimizzare la gestione termica senza ricorrere alle alette di dissipazione che potrebbero favorire l'accumulo di sporco. Le superfici di ogni prodotto sono modellate per agevolare lo scolo dell'acqua e per evitare il deposito di foglie, sabbia o neve anche quando il prodotto è inclinato.

5. Reduction in the buildup of dirt: no dissipation fins

The new Cariboni products are designed to optimise the heat management without using heat dissipation fins that could allow for the buildup of dirt. The surfaces of each product are shaped to drain water efficiently and to prevent the deposit of leaves, sand or snow, even when the product is tilted.

5. Reduzierte Schmutzansammlung: keine Wärmeableitungsrippen

Die neuen Produkte von Cariboni sind so konstruiert, dass eine optimale Wärmeableitung auch ohne Wärmeableitungsrippen, auf denen sich leicht Schmutz ansammelt, gewährleistet ist. Die Oberflächen der verschiedenen Produkte sind so beschaffen, dass Wasser leicht abfließen kann und Blätter, Sand oder Schnee nicht liegen bleiben, auch wenn das Produkt geneigt ist.

6. Installazione: fissaggi e orientamento

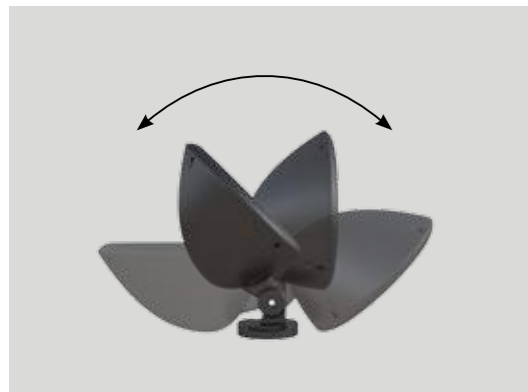
I prodotti Cariboni possono essere installati in differenti configurazioni grazie agli accessori disponibili sul catalogo. Quando richiesto dal contesto di applicazione, è possibile orientare i prodotti accesi direttamente in fase di installazione per un miglior controllo della distribuzione luminosa.

6. Installation: fixing and adjustment

Cariboni products can be installed in different configurations thanks to the accessories available in the catalogue. When required by the application situation, the powered products can be adjusted directly during the installation, to achieve the optimum light distribution.

6. Montage: Befestigungselemente und Ausrichtung

Die Cariboni Produkte können dank der über den Katalog erhältlichen Zubehörteile in unterschiedlichen Konfigurationen installiert werden. Falls das Anwendungsumfeld es erfordert, besteht die Möglichkeit zur Ausrichtung der eingeschalteten Produkte direkt während der Installation, um eine optimale Lichtverteilung zu erzielen.



6



Sistemi Ottici *Optics* Optische Systeme

Cariboni rende disponibile una vasta gamma di sistemi ottici e distribuzioni fotometriche in grado di illuminare ogni spazio urbano. Le distribuzioni fotometriche per la categoria "Architetture e giardini" si distinguono in ottiche:

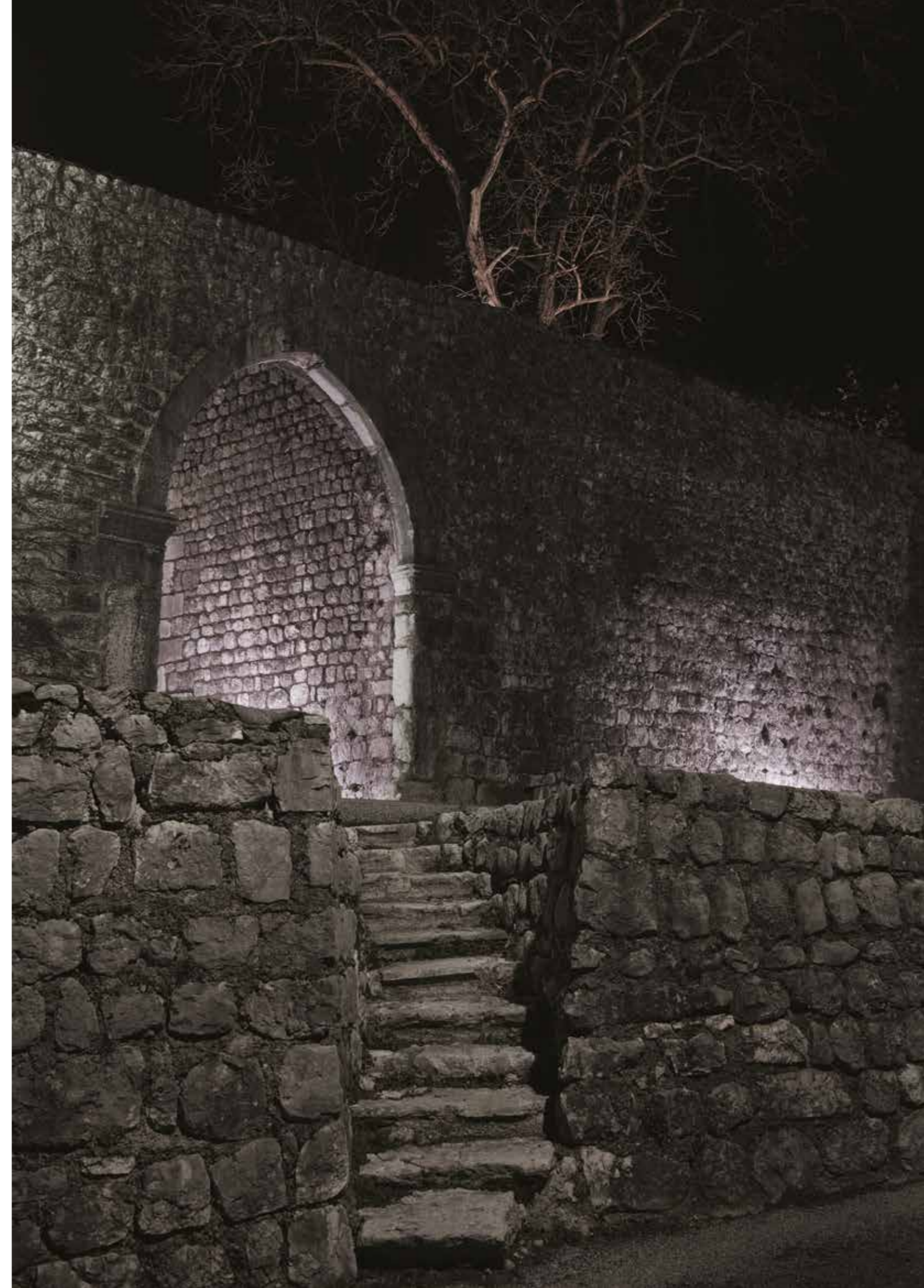
- Spot fascio concentrante, medio, diffondente e ultra-diffondente;
- Radenti 360°, 180° e 2x90°;
- Asimmetriche;
- Lame singole e doppie;
- Wall washer;
- Diffondenti.

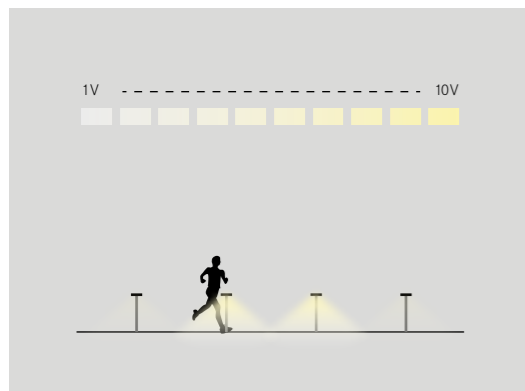
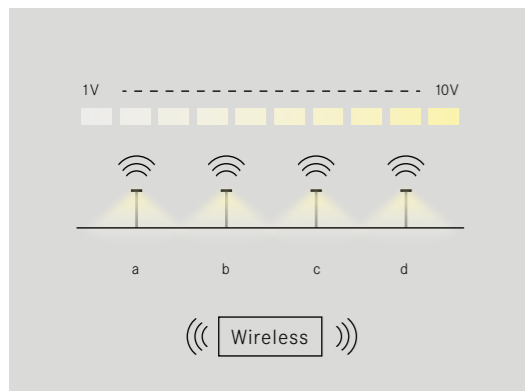
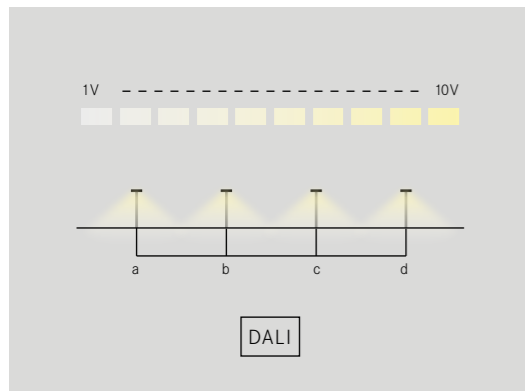
Cariboni provides a vast range of optical systems and photometric distributions to light every urban space. The photometric distribution solutions for the "Architecture and gardens" category include the following:

- *Narrow, medium, wide and ultra wide beam spotlights;*
- *360°, 180° and 2x90° surface skimming lights;*
- *Asymmetrical;*
- *Single and double blades;*
- *Wall washer;*
- *Diffusing.*

Cariboni bietet eine breite Palette von optischen Systemen und photometrischen Verteilungen an, die den Beleuchtungsanforderungen beliebiger urbaner Bereiche gerecht werden können. Die photometrischen Verteilungen für die Kategorie: "Architektonische Objekte und gärten" unterscheiden sich durch die Optiken:

- Spot - schmaler, mittlerer, weiter und sehr weiter Lichtstrahl;
- Streiflicht 360°, 180° und 2x90°;
- Asymmetrische Lichtverteilung;
- Einzelne und doppelte Lichtlanzen;
- Wall-Washer;
- Breitstrahlend.





1. Group Management: Regolazione di flusso in 1-10V e DALI
1-10V – È un controllo di tipo analogico, basato sulla distribuzione di un segnale in tensione che spazia tra 1 e 10 Volt, dove 1V corrisponde al valore minimo di intensità luminosa e 10V corrispondono al valore massimo.

DALI – È un controllo di tipo digitale, dove a ogni apparecchio viene assegnato un indirizzo univoco, che permette il controllo del singolo punto luce e la creazione di gruppi di controllo.

2. Remote Management

Wireless – Il sistema di telegestione wireless è in grado di gestire gli apparecchi da remoto in modo semplice e senza vincoli dovuti all'impianto preesistente. La tecnologia wireless consente di monitorare ogni singolo apparecchio e di modificarne i profili di consumo. Il sistema di telegestione wireless, oltre a contenere i consumi e le spese di gestione, predispone l'infrastruttura utile ad ospitare altri sistemi o servizi per il territorio compatibili con i più innovativi progetti di smart lighting.

3. Sensori

Rilevatori di movimento e di presenza – L'utilizzo dei sensori di movimento consente di rilevare il passaggio di persone o veicoli e di regolare il flusso emesso per garantire i giusti livelli di sicurezza. Se non viene rilevato alcun movimento di persone o veicoli il flusso luminoso viene ridotto consentendo un importante contenimento di consumi e costi. Il tipo di sensore e le modalità di installazione devono essere definiti in base al contesto applicativo e alle geometrie dello spazio di progetto. Il controllo dell'impianto, comunicando i sistemi 1-10V, DALI o Wireless, può essere centralizzato. I sensori devono essere montati esternamente al prodotto.

Sensore luminoso – I prodotti Cariboni con regolazione DALI, 1-10V o Wireless sono compatibili con sensori luminosi che regolano l'emissione di luce in uscita sulla base della quantità di luce già presente nell'ambiente. Questa soluzione evita inutili sprechi e garantisce il rientro dei costi di investimento in tempi brevi.

1. Group Management: Flow adjustment in 1-10V and DALI
1-10V – This is an analogue type control system based on the distribution of a voltage signal between 1 and 10 Volt, where 1V corresponds to the minimum light intensity value and 10V corresponds to the maximum value.

DALI – This is a digital type control system where every device is assigned a unique address that allows the individual light points to be controlled and the control units to be created.

2. Remote Management

Wireless – The wireless remote management system can remote control luminaires simply and without limits thanks to the existing system. Wireless technology allows each individual luminaire to be monitored remotely and consumption profiles to be modified. The wireless remote management system, as well reducing consumption and management costs, includes the infrastructure to host other systems or services for the territory, compatible with the latest smart lighting projects.

3. Sensors

Movement and presence sensors – Using movement sensors allows the luminaire's luminous flux to be regulated and the correct safety levels maintained according to whether a person or a vehicle is passing. If no movement of people or vehicles is detected the luminous flux is reduced, thereby allowing consumption and costs to be reduced. The type of sensor and the method of installation should be defined according to the application context and the size and shape of the space in question. The system control, by communicating with the 1-10V DALI or Wireless systems, can be centralised. Sensors must be mounted outside the product.

Light sensor – The Cariboni products with DALI, 1-10V or Wireless adjustment are compatible with light sensors that adjust the light emission output based on the quantity of light already in the space. This solution avoids waste and guarantees a return on investment in a very short time.

1. Steuerung von Leuchtengruppen: Lichtflussregulierung 1-10V und DALI

1-10V – Diese analoge Steuertechnik beruht auf der Verteilung eines Spannungssignals von 1-10V, wobei 1V dem kleinsten Wert der Lichtstärke und 10V dem höchsten Wert entspricht.

DALI-Betriebsgerät – Dabei handelt es sich um ein digitales Steuerprotokoll, das jede Leuchte einzeln adressiert, sodass die Lichtpunkte unabhängig oder als Leuchtengruppen angesteuert werden können.

2. Fernsteuerung

Wireless – Das drahtlose Remote-Steuerungssystem ist imstande, Leuchten mühelos und ohne Einschränkungen, die durch die bereits bestehende Anlage verursacht werden, fernzusteuern. Die Wireless-Technologie ermöglicht eine Überwachung der einzelnen Leuchten und eine Änderung der jeweiligen Verbrauchsprofile aus der Ferne. Das Remote-Steuerungssystem reduziert nicht nur den Energieverbrauch und die Verwaltungskosten, sondern stellt auch die erforderliche Infrastruktur bereit, um weitere, mit den innovativen Smart-Lighting-Projekten kompatible Anlagen oder Service-Systeme zu integrieren.

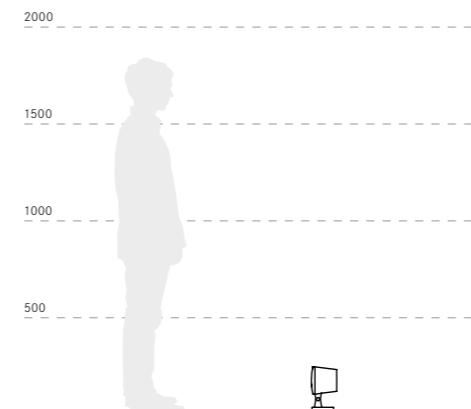
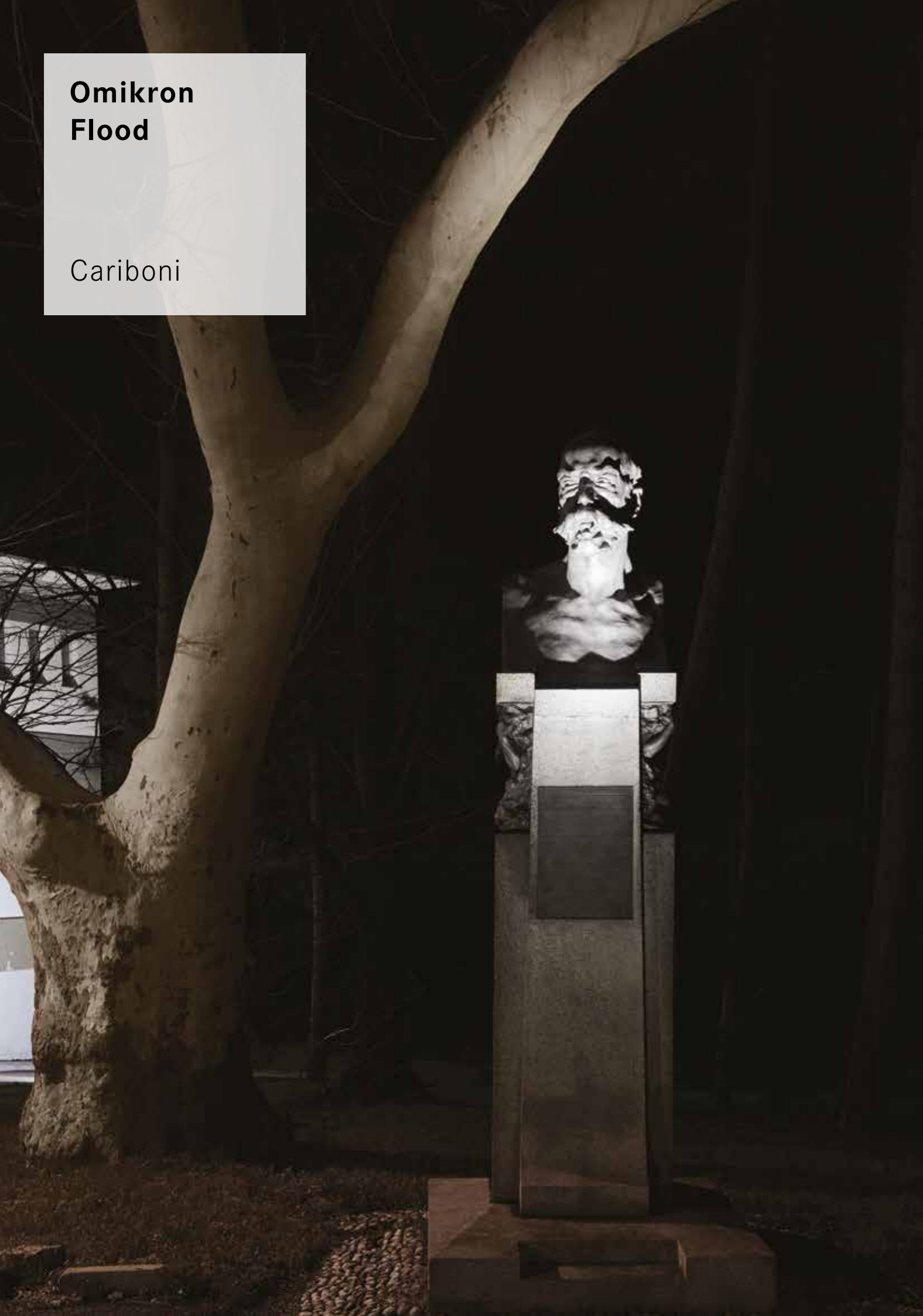
3. Sensoren

Bewegungs- und Präsenzmelder – Der Einsatz von Bewegungsmeldern ermöglicht es, Passanten bzw. Fahrzeuge zu erkennen und den Lichtstrom dementsprechend zu regulieren, sodass das benötigte Maß an Sicherheit gewährleistet ist. Wenn keine Bewegung von Personen oder Fahrzeugen erfasst wird, wird der Lichtstrom und somit der Energieverbrauch reduziert. Welche Art von Sensor gewählt und wie er installiert wird, hängt vom Anwendungsumfeld und der Geometrie des im Projekt geplanten Raums ab. Die Steuerung der Beleuchtungsanlage, die über die Systeme 1-10V, DALI oder drahtlos erfolgt, kann zentralisiert werden. Die Sensoren werden extern am Produkt installiert.

Lichtsensor – Die Produkte Cariboni mit DALI-, 1-10V- oder drahtloser Steuerung sind mit Lichtsensoren kompatibel, die den austretenden Lichtstrom je nach bereits in der Umgebung vorhandener Lichtmenge regulieren. Dadurch werden Verschwendungen durch unnützes Licht ausgeschlossen und die Kosten der Investition in kurzer Zeit amortisiert.

Omikron Flood

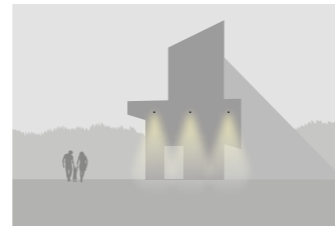
Cariboni



Omikron Pole P. 328



220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I CL II on request	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08 (U-D 90°) IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-20° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request ON OFF	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



Installazione: superfici orizzontali e verticali
Installation: horizontal and vertical surfaces
Installation: horizontale und vertikale Flächen

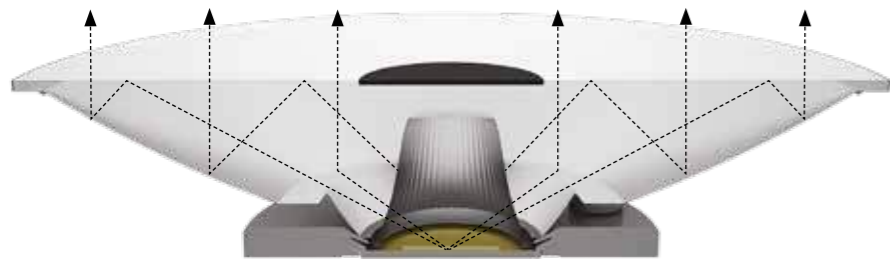
1805-1920lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥90	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

Beam Type	Beam Angle	19W H (m)	19W Ø (m)	19W Em (lux)
Ultra-wide beam	U-D 90°	1	2	205
		2	4.2	51
		3	6.3	23
		4	8.5	13
		5	10.5	8
Medium beam	M 25°	1	0.4	5748
		2	0.8	1437
		3	1.2	639
		4	1.6	359
		5	2	230
Wide beam	D 45°	1	0.8	1415
		2	1.6	354
		3	2.3	157
		4	3	88
		5	3.8	57
Narrow beam	C 10°	1	0.15	23722
		2	0.3	5931
		3	0.5	2636
		4	0.6	1483
		5	0.8	949

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen	Elevata resistenza agli urti (IK09) <i>Maximum impact resistance (IK09)</i> Maximum Stoßfestigkeitsgrad (IK09)	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt	Precablaggio <i>Pre-wiring</i> Vorverkabelung	Dimensioni compatte <i>Dimensions compact</i> Kompakten Abmessungen
CRI≥90 SMCD=3 <i>CRI≥90 SMCD=3</i> CRI≥90 SMCD=3	Flicker free <i>Flicker free</i> Flicker free	Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung
Sistema acqua stop <i>Water stop system</i> Wasserstopp-System		

220 240V	50 60Hz	CL I	IP66	IK08 IK09
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Benessere visivo e schermatura della sorgente

Il sistema ottico è composto da una lente e una "pupilla nera". La lente catadiottrica a doppia riflessione interna (D-TIR) permette un accurato controllo del fascio di proiezione e un design sottile. La pupilla nasconde la sorgente alla vista dell'osservatore: durante la notte, quando la luce è accesa, la pupilla evita l'abbagliamento; durante il giorno, quando la luce è spenta, la pupilla scherma la LES (Light-Emitting Surface) del COB.

Visual comfort and Hidden Light Emitting Surface

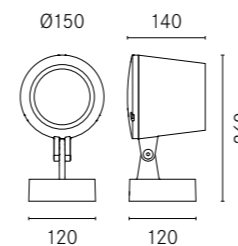
The optical system consists of a lens and a "black pupil". The catadioptric lens with double internal reflection (D-TIR) allows for precise control of the light beam and a slim design. The pupil hides the light surface from the observer's sight. During the night, when the light is on, the pupil avoids dazzling; during the day, when the light is off, the pupil screens the COB's LES (Light-Emitting surface).

Sehwohlbefinden und Abschirmung der Lichtquelle

Das Optiksystm besteht aus einer Linse und einer "schwarzen Pupille". Die katadioptrische Linse mit doppelter interner Reflexion (D-TIR) ermöglicht eine genaue Kontrolle des Projektionslichtbündels und ein schmales Design. Die Pupille versteckt die Lichtquelle vor dem Auge des Betrachters: wenn das Licht während der Nacht eingeschaltet ist, verhindert die Pupille die Blendung; wenn das Licht während des Tages ausgeschaltet ist, schirmt die Pupille das LES (Lichtaustrittsfläche) vom COB (chip on board) ab.



Omikron Flood flood



Max weight: 2.00 kg
Max exposed surface: 0.0027m²
Lateral exposed surface: 0.0027m²

Omikron Flood 06OM2

Led (source flux):
Ref. @500mA @4000K Ref. @500mA @3000K

1920lm 19W	1805lm 19W
A1	A1

mA

500
4

K

4000	3000
0	9

Optics

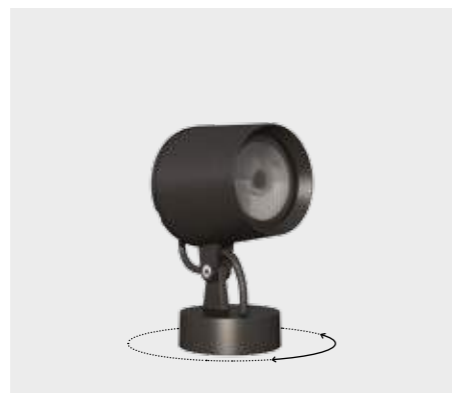
C 10°	M 25°	D 45°	U-D 90°
A8	A9	B0	B2

Colors

Sablé100
C

Esempio *Example* Beispiel

06OM2	A1	4	0	A8	C
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Orientabilità

Omikron Flood può essere orientato con precisione grazie alla base di fissaggio ruotabile ±25° e inclinabile +90° -45°. Sistema di puntamento e blocco in regolazione continua.

Orientability

Omikron Flood can be oriented with precision thanks to its fixing base which can be rotated ±25° and tilted +90° -45°. Continuously-adjustable pointing and locking system.

Ausrichtbarkeit

Omikron Flood lässt sich dank der um ±25° drehbaren und um +90° -45° neigbaren Befestigungsbasis präzise ausrichten. Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung.

Accessori Accessories Zubehör

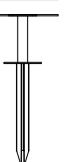
06KS918C0 / 06KS909C0

Connettore 2 vie - Connettore 4 vie IP68
2-way connector - 4-way connector IP68
2-Wege-Stecker - 4-Wege-Stecker IP68



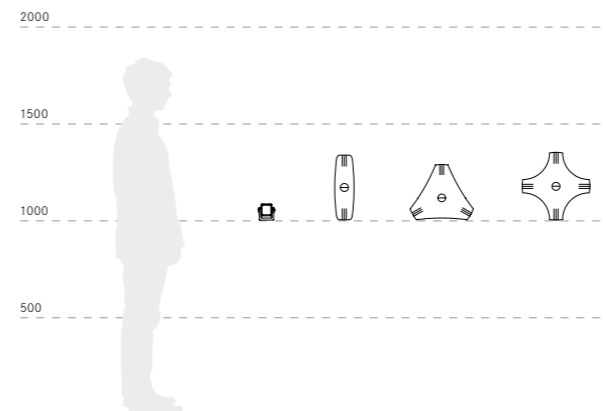
06OM901C0

Picchetto per interrimento
Picket for ground installation
Erdspeiß für Bodeninstallation



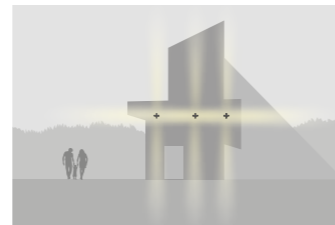
Led Lite

Cariboni



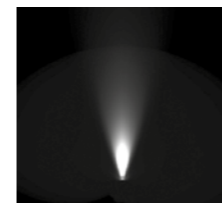


230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I (Led Lite 2-3-4) CL III (Led Lite 1)	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +45° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Led Lite 1 (remote to be ordered separately) Led Lite 2-3-4 (included)	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung



125- 1400lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K BLUE	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

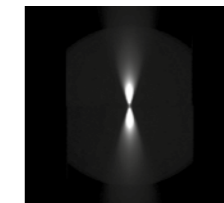
F 40°



Led Lite 1 Flood

4000K		
H (m)	Ø (m)	Em (lux)
5	1.71	56
4	1.37	87
3	1.03	154
2	0.68	347
1	0.34	1388

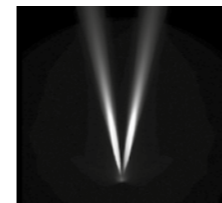
F 40° + F 40°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	1.71	56	5	1.71	56
4	1.37	87	4	1.37	87
3	1.03	154	3	1.03	154
2	0.68	347	2	0.68	347
1	0.34	1388	1	0.34	1388

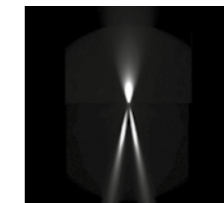
B-L 2x5°



Led Lite 1 Double-blades

4000K		
H (m)	Ø (m)	Em (lux)
5	2.05	107
4	1.64	167
3	1.23	298
2	0.82	669
1	0.41	2678

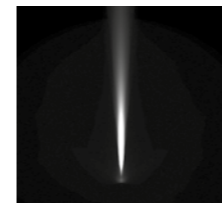
F 40° + L 10°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	1.71	56	5	0.35	246
4	1.37	87	4	0.28	384
3	1.03	154	3	0.21	683
2	0.68	347	2	0.14	1536
1	0.34	1388	1	0.07	6146

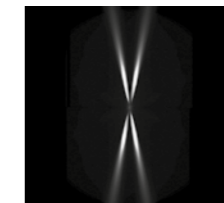
L 10°



Led Lite 1 Blade

4000K		
H (m)	Ø (m)	Em (lux)
5	0.35	246
4	0.28	384
3	0.21	683
2	0.14	1536
1	0.07	6146

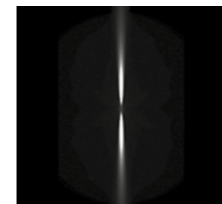
B-L 2x5° + B-L 2x5°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	2.05	107	5	2.05	107
4	1.64	167	4	1.64	167
3	1.23	298	3	1.23	298
2	0.82	669	2	0.82	669
1	0.41	2678	1	0.41	2678

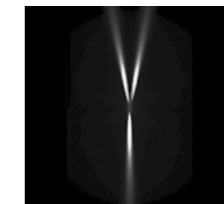
L 10° + L 10°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.35	246	5	0.35	246
4	0.28	384	4	0.28	384
3	0.21	683	3	0.21	683
2	0.14	1536	2	0.14	1536
1	0.07	6146	1	0.07	6146

B-L 2x5° + L 10°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	2.05	107	5	0.35	246
4	1.64	167	4	0.28	384
3	1.23	298	3	0.21	683
2	0.82	669	2	0.14	1536
1	0.41	2678	1	0.07	6146

Installazione: superfici orizzontali e verticali
Installation: horizontal and vertical surfaces
Installation: horizontale und vertikale Flächen

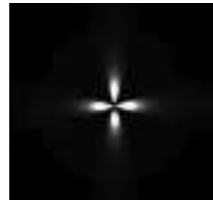
F 40° + L 10°



Led Lite 2

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	1.71	56	5	0.35	246
4	1.37	87	4	0.28	384
3	1.03	154	3	0.21	683
2	0.68	347	2	0.14	1536
1	0.34	1388	1	0.07	6146

4F 40°



Led Lite 4

4000K		
H (m)	Ø (m)	Em (lux)
5	1.71	56
4	1.37	87
3	1.03	154
2	0.68	347
1	0.34	1388

3F 40°



Led Lite 3

4000K		
H (m)	Ø (m)	Em (lux)
5	1.71	56
4	1.37	87
3	1.03	154
2	0.68	347
1	0.34	1388

4B-L 2x5°



Led Lite 4

4000K		
H (m)	Ø (m)	Em (lux)
5	2.05	107
4	1.64	167
3	1.23	298
2	0.82	669
1	0.41	2678

3B-L 2x5°



Led Lite 3

4000K		
H (m)	Ø (m)	Em (lux)
5	2.05	107
4	1.64	167
3	1.23	298
2	0.82	669
1	0.41	2678

2L 10° + 2F 40°



Led Lite 4

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.35	246	5	1.71	56
4	0.28	384	4	1.37	87
3	0.21	683	3	1.03	154
2	0.14	1536	2	0.68	347
1	0.07	6146	1	0.34	1388

F 40° + 2L 10°



Led Lite 3

4000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	1.71	56	5	0.35	246
4	1.37	87	4	0.28	384
3	1.03	154	3	0.21	683
2	0.68	347	2	0.14	1536
1	0.34	1388	1	0.07	6146

3L 10°



Led Lite 4

4000K		
H (m)	Ø (m)	Em (lux)
5	0.35	246
4	0.28	384
3	0.21	683
2	0.14	1536
1	0.07	6146

3L 10°



Led Lite 3

4000K		
H (m)	Ø (m)	Em (lux)
5	0.35	246
4	0.28	384
3	0.21	683
2	0.14	1536
1	0.07	6146

4L 10°



Led Lite 4

4000K		
H (m)	Ø (m)	Em (lux)
5	0.35	246
4	0.28	384
3	0.21	683
2	0.14	1536
1	0.07	6146



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



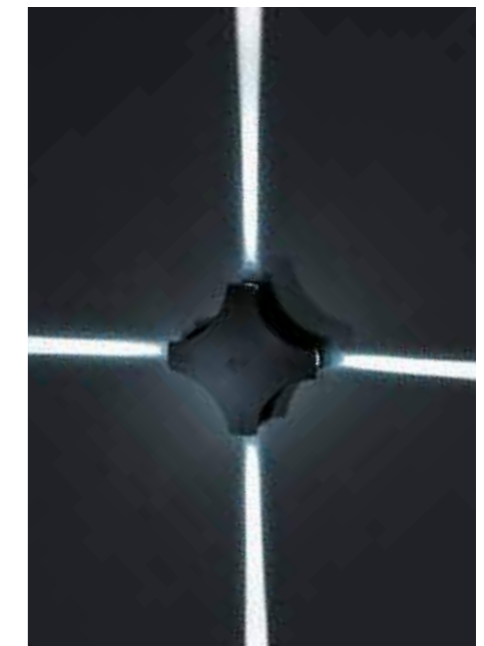
Prodotto orientabile (solo Led Lite1)
Orientable product (only Led Lite 1)
Ausrichtbares Produkt (einzig Led Lite 1)



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Sistema acqua stop
Water stop system
Wasserstopp-System



Graphic lighting

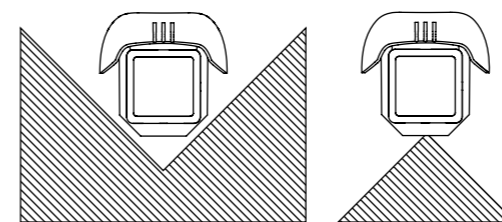
La linea Led Lite è disponibile in tre fasci luminosi combinabili tra loro: lama, bi-lama e flood.

Graphic lighting

The Led Lite line is available in three beams, which can be combined: blade, bi-blade and flood.

Graphic lighting

Die Led Lite-Produktreihe ist in drei Lichtbündeln erhältlich, die miteinander kombiniert werden können: Streiflicht, Doppel-Streiflicht und Flood.



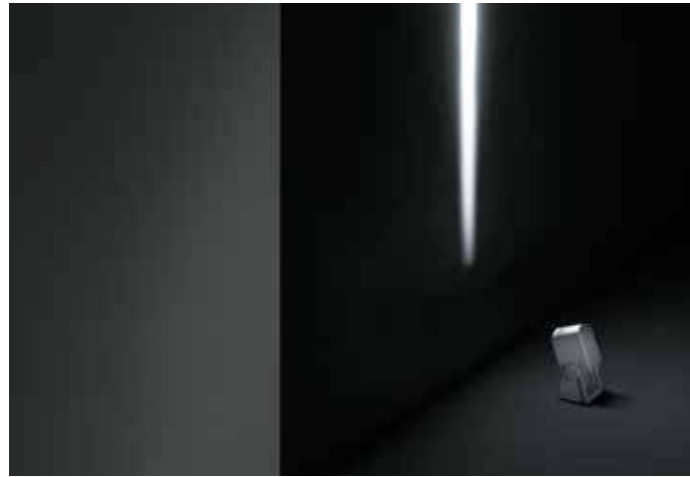
La versione a parete Led Lite 2 può essere installata su angoli concavi o convessi, con apposito kit di fissaggio.

The wall-mounted Led Lite 2 version can be installed in concave or on convex corners, using the appropriate fixing kit.

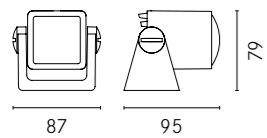
Die Wandversion Led Lite 2 kann in hohlen oder gewölbten Winkeln mit dem speziellen Befestigungskit installiert werden.

Led Lite Flood

230V 50Hz CL III IP65 IK06



Led Lite 1 flood



Max weight: 0.35kg

Max exposed surface: 0.035m²

Lateral exposed surface: 0.035m²

Led Lite 1

06LA1

Led (source flux): Ref. @500mA @4000K		Ref. @500mA @3000K
350lm 3W	330lm 3W	
A2	A2	

mA

500

4

K

4000

3000

BLUE

0

9

6

Optics

L 10°

B-L 2x5°

F 40°

1

2

5

Colors

RAL9006

A

Esempio *Example* Beispiel

06LA1	A2	4	9	2	A
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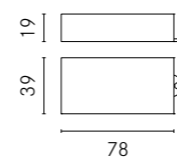
Accessori *Accessories* Zubehör

06LL920A0

Alimentatore elettronico IP65 max 3 Led Lite 1

Electronic ballast IP65 max 3 Led Lite 1

Elektronischer Driver IP65 für max 3 Led Lite 1

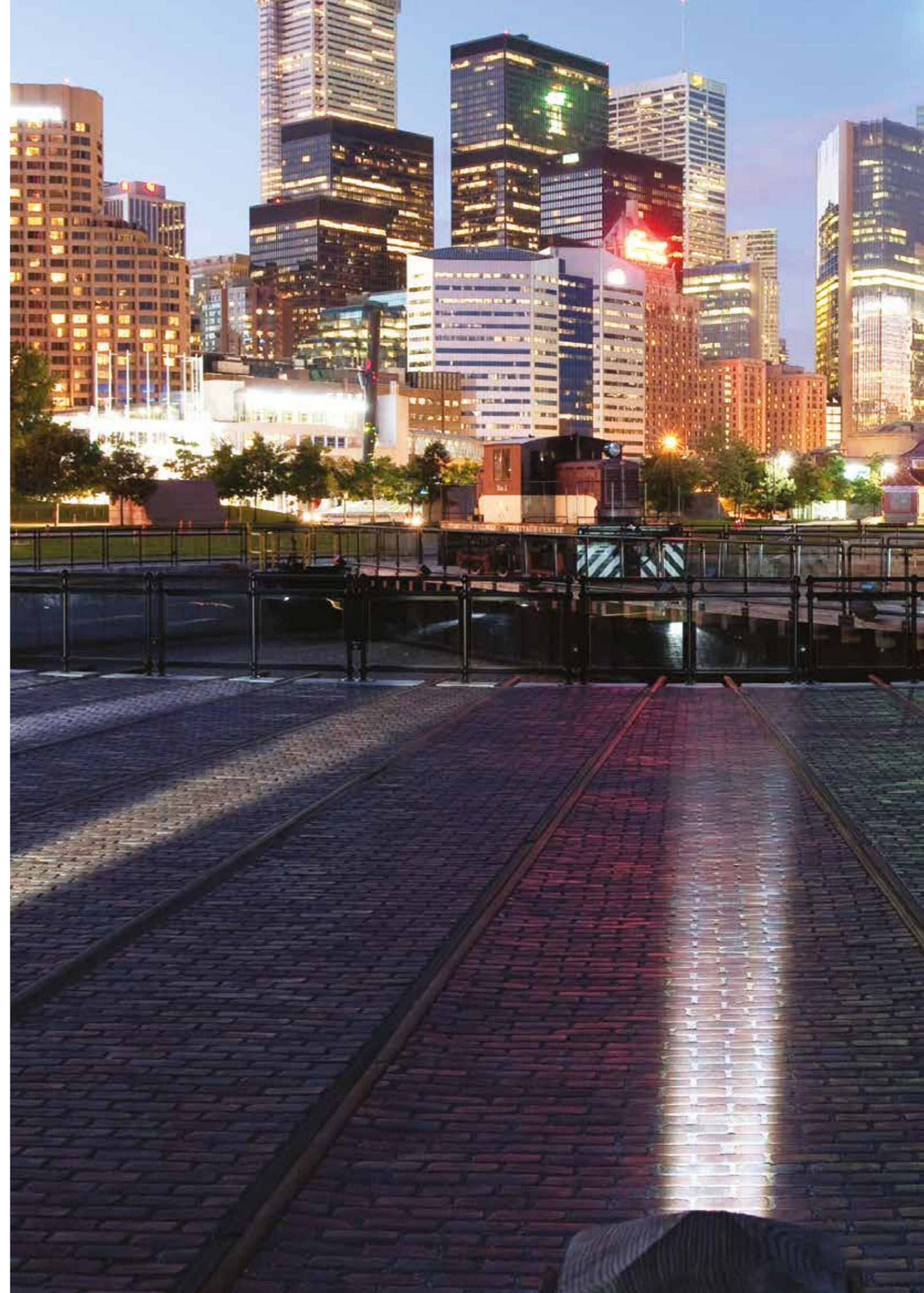


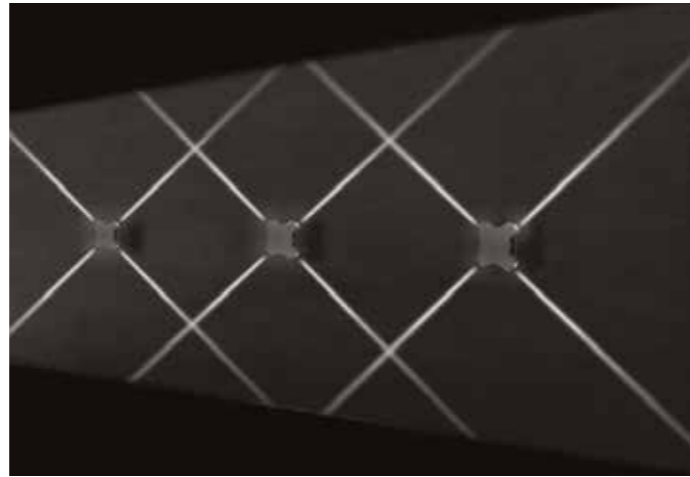
06LL903AB0

Picchetto per interrimento

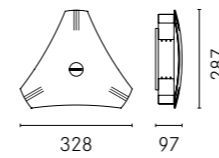
Picket for ground installation

Erdspieß für Bodeninstallation





Led Lite 3 wall



Max weight: 2.25kg
 Max exposed surface: 0.035m²
 Lateral exposed surface: 0.035m²

Led Lite 3

06LA3

Led (source flux):
 Ref. @500mA @4000K Ref. @500mA @3000K

3x350lm 9W	3x330lm 9W
A6	A6

mA

500
4

K

4000	3000	BLUE
0	9	6

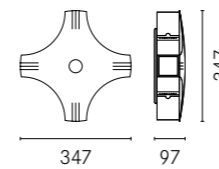
Optics

3Lx10°	F 40° + 2L 10°	3B-L 2x5°	3F 40°
1	12	2	5

Colors

RAL9006
A

Led Lite 4 wall



Max weight: 2.50kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.035m²

Led Lite 4

06LA4

Led (source flux) Ref. @500mA @4000K

3X350lm*	4x350lm	*Only for 3Lx10°
A6	A8	

Led (source flux) Ref. @500mA @3000K

3X330lm*	4x330lm
A6	A8

mA

500
4

K

4000	3000	BLUE
0	9	6

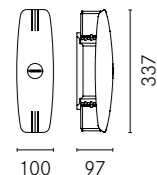
Optics

3Lx10°	4Lx10°	2F 40° + 2L 10°	4B-L 2x5°	4F 40°
1	1	12	2	5

Colors

RAL9006
A

Led Lite 2 wall



Max weight: 1.45kg
 Max exposed surface: 0.035m²
 Lateral exposed surface: 0.035m²

Led Lite 2

06LA2

Led (source flux):
 Ref. @500mA @4000K Ref. @500mA @3000K

2x350lm 6W	2x330lm 6W
A4	A4

mA

500
4

K

4000	3000	BLUE
0	9	6

Optics

L 10° + L 10°	B-L 2x5° + L 10°	F 40° + L 10°	B-L 2x5° + B-L 2x5°
1	11	12	2
F 40° + B-L 2x5°	F 40° + F 40°		
21	5		

Colors

RAL9006
A

Esempio Example Beispiel

06LA2	A4	4	0	12	A
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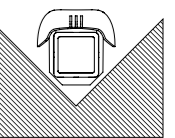
Accessori Accessories Zubehör Led Lite 2 wall

06LL901AB0

Kit Led Lite - Angolo interno (CC)

Led Lite Kit - Internal corners

Led Lite kit - Innenecken

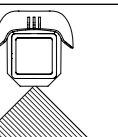


06LL902AB0

Kit Led Lite - Angolo esterno (CX)

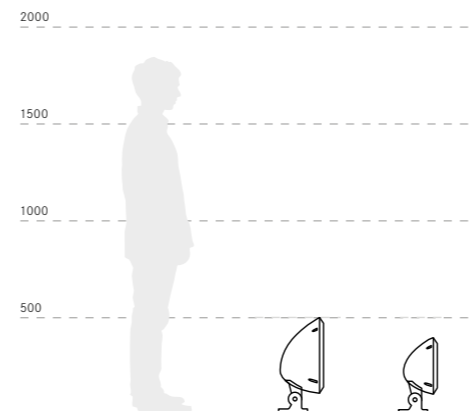
Led Lite Kit - External corners

Led Lite kit - Außenecken



Sigma Flood

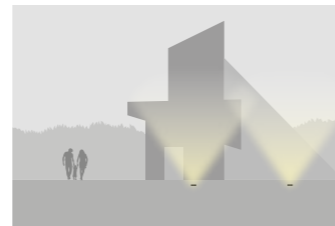
Cariboni



Sigma Pole P. 334



220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08 (U-D 90°) IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
1-10V on request DALI	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



2190-11815lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K 2200K on request	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

W-W



Sigma small Wall washer

36W B=40°		
H (m)	Ø (m)	Em (lux)
1	0.8	1034
2	1.5	258
3	2.5	115
4	3.3	65
5	4.2	41

D 40°



Sigma small Wide beam

36W		
H (m)	Ø (m)	Em (lux)
1	0.6	6332
2	1.2	1583
3	1.75	704
4	2.3	396
5	2.9	253

Sigma medium Wall washer

71W B=40°			105W B=40°		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.8	2068	1	0.8	2800
2	1.5	517	2	1.5	700
3	2.5	230	3	2.5	310
4	3.3	129	4	3.3	175
5	4.2	83	5	4.2	112

Sigma medium Wide beam

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.6	12664	2	1.2	4287
2	1.2	3166	4	2.4	1072
3	1.75	1407	6	3.5	475
4	2.3	792	8	4.6	268
5	2.9	507	10	5.8	171

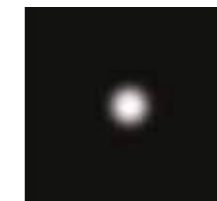
U-D 90°



Sigma small Ultra-wide beam

36W		
H (m)	Ø (m)	Em (lux)
1	2	565
2	4.2	141
3	6.3	63
4	8.5	35
5	10.6	23

M 25°



Sigma small Medium beam

36W		
H (m)	Ø (m)	Em (lux)
1	0.45	11593
2	0.85	5898
3	1.3	1288
4	1.7	725
5	2.2	464

Sigma medium Ultra-wide beam

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	2	1131	1	2	1530
2	4.2	283	2	4.2	382
3	6.3	126	3	6.3	169
4	8.5	71	4	8.5	96
5	10.6	45	5	10.6	61

Sigma medium Medium beam

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.45	23186	2	0.90	7848
2	0.85	5796	4	1.7	1962
3	1.3	2576	6	2.6	872
4	1.7	1449	8	3.4	490
5	2.2	927	10	4.4	314

Installazione: superfici orizzontali e verticali
Installation: horizontal and vertical surfaces
Installation: horizontale und vertikale Flächen

Sigma Flood

E 12° -50°



Sigma small Ellipsoidal

36W		
H (m)	Ø (m)	Em (lux)
1	0.9x0.2	9828
2	2x0.45	2457
3	3x0.65	1092
4	4x0.9	614
5	4.8x1	393

Sigma medium Ellipsoidal

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.9x0.2	19655	2	1.8x0.4	6653
2	2x0.45	4914	4	4x0.9	1663
3	3x0.65	2184	6	6x1.3	739
4	4x0.9	1228	8	8x1.8	415
5	4.8x1	786	10	9.6x2	266

C 11°



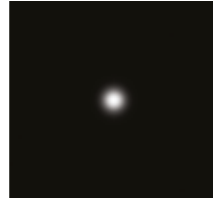
Sigma small Narrow beam

36W		
H (m)	Ø (m)	Em (lux)
1	0.18	49646
2	0.35	12411
3	0.50	5516
4	0.70	3103
5	0.85	1986

Sigma medium Narrow beam

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.18	99291	2	0.36	33614
2	0.35	24823	4	0.70	8403
3	0.50	11032	6	1	3734
4	0.70	6206	8	1.4	2100
5	0.85	3972	10	1.7	1344

U-C 6°








Sigma small Ultra-narrow beam

36W		
H (m)	Ø (m)	Em (lux)
1	0.1	340894
2	0.2	85223
3	0.3	37877
4	0.4	21305
5	0.5	13636

Sigma medium Ultra-narrow beam

71W			105W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.1	276787	2	0.1	193231
2	0.2	69196	4	0.2	48307
3	0.3	30754	6	0.3	21470
4	0.4	17299	8	0.4	12077
5	0.5	11072	10	0.5	7730



	Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen		Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Luce calda 2200K su richiesta <i>Warm Light 2200K on request</i> Warme Licht 2200K auf Anfrage
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C		Elevata resistenza agli urti (IK09) <i>Maximum impact resistance (IK09)</i> Maximum Stoßfestigkeitsgrad (IK09)
	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten		Flicker free <i>Flicker free</i> Flicker free
	Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung		TLCI>85 su richiesta <i>TLCI>85 on request</i> TLCI>85 auf Anfrage		



Benessere visivo e schermatura delle sorgenti

Le geometrie della linea Sigma sono state pensate per consentire l'arretramento del gruppo ottico rispetto allo schermo, al fine di ridurre la visibilità delle sorgenti. La finitura superficiale del recuperatore elimina ogni riflessione indesiderata della luce per garantire benessere visivo e controllo ottico.

Visual comfort and Hidden Light Emitting Surfaces

The form of the Sigma line has been created to allow the optical unit to be set back from the screen, resulting in a reduction of the visibility of the light emitting surfaces. The surface finish of the collector eliminates all undesired light reflection, guaranteeing visual comfort and optical control.

Sehwohlbefinden und Abschirmung der Lichtquellen

Die Geometrien der Sigma-Produktreihe wurden entworfen, um die Zurücksetzung der Optikeinheit im Vergleich zum Schirm zu ermöglichen, damit die Sichtbarkeit der Lichtquellen verringert wird. Die Oberflächenbehandlung des Rekuperators beseitigt jegliche unerwünschte Lichtreflexion, um Sehwohlbefinden und optische Kontrolle zu gewährleisten.

Distribuzioni della luce

I prodotti della linea Sigma includono proiettori e wall washer che ottimizzano il comfort visivo senza rinunciare ad alte prestazioni in termini di distribuzioni fotometriche ed efficienza luminosa.

Light Distribution

The products in the Sigma line include floodlights and wall-washers which optimise visual comfort while maintaining high performance in terms of photometric distribution and illumination efficiency.

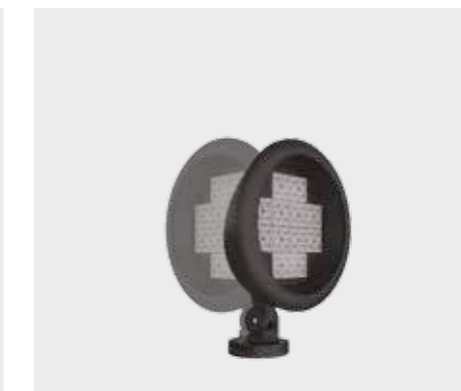
Lichtverteilung

Die Produkte der Sigma-Reihe umfassen Projektoren und Wall Washer, die den Sehkomfort optimieren, ohne dabei auf hohe Leistungen in Bezug auf photometrische Verteilungen und Lichtausbeute zu verzichten.



Orientabilità

Sigma può essere orientato con precisione grazie alla base di fissaggio ruotabile $\pm 30^\circ$ e inclinabile $-90^\circ + 35^\circ$. Sistema di puntamento e blocco in regolazione continua.



Orientability

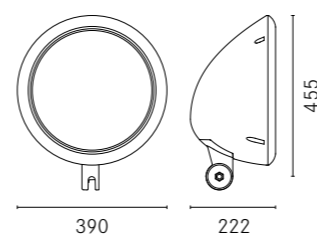
Sigma can be oriented with precision thanks to its fixing base which can be rotated $\pm 30^\circ$ and tilted $-90^\circ + 35^\circ$. Continuously-adjustable pointing and locking system.

Ausrichtbarkeit

Sigma lässt sich dank der um $\pm 30^\circ$ drehbaren und um $-90^\circ + 35^\circ$ neigbaren Befestigungsbasis präzise ausrichten. Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung.



Sigma Flood flood medium



Max weight: 8.50kg
 Max exposed surface: 0.060m²
 Lateral exposed surface: 0.073m²

Sigma Flood M
06SG4

Led (source flux) Ref. @700mA @4000K				*Only U-C 6°
7455lm* 71W	8590lm 71W	10410lm* 105W	11815lm 105W	
D2	D2	E8	E8	

Led (source flux) Ref. @700mA @3000K			
7195lm* 71W	8300lm 71W	10060lm* 105W	11420lm 105W
D2	D2	E8	E8

mA

700	525	350
0	5	3

K

4000	3000	2200*	*On request
0	9	1	

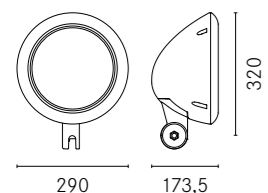
Optics

U-C 6°*	C 11°	M 25°	D 40°	E 12°x50°	U-D 90°	W-W	*Only 7455lm 10410lm
C3	B8	B9	C0	C1	C4	C2	

Colors

Sablé100
C

Sigma Flood flood small



Max weight: 7.50kg
 Max exposed surface: 0.038m²
 Lateral exposed surface: 0.049m²

Sigma Flood S
06SG3

Led (source flux) Ref. @700mA @4000K		*Only U-C 6°
3935lm* 36W	4570lm 36W	
B6	B6	

Led (source flux) Ref. @700mA @3000K	
3795lm* 36W	4420lm 36W
B6	B6

mA

700	525	350
0	5	3

K

4000	3000	2200*	*On request
0	9	1	

Optics

U-C 6°*	C 11°	M 25°	D 40°	E 12°x50°	U-D 90°	W-W	*Only 3935lm
C3	B8	B9	C0	C1	C4	C2	

Colors

Sablé100
C

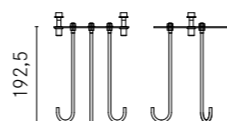
Esempio Example Beispiel

06SG3	B6	0	0	B8	C
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Accessori Accessories Zubehör

06LT909J0

Ancora per calcestruzzo
 Anchor for concrete
 Anker für Beton



06LT908C0 - Sablé100

Picchetto per interramento
 Picket for ground installation
 Erdspeiß für Bodeninstallation



Accessori Accessories Zubehör

06SG903C0 - Sablé100

Giunto orientabile piastra
 Adjustable joint for board
 Justierbares Gelenk für Platte



06SG904C0 - Sablé100

B128 Giunto orientabile per picchetto
 B128 Adjustable joint for picket
 B128 Justierbares Gelenk für Erdspeiß



135

06KS918C0

Connettore 2 vie IP68
 2-way connector IP68
 2-Wege-Stecker IP68



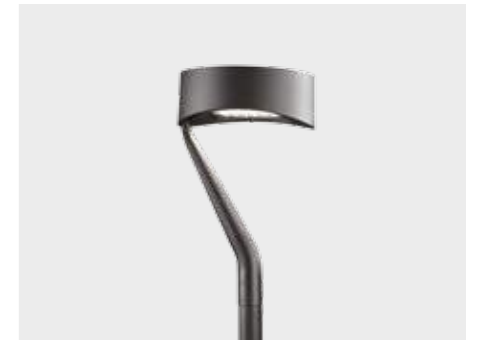
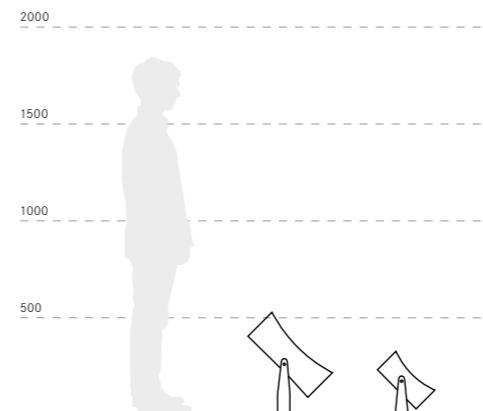
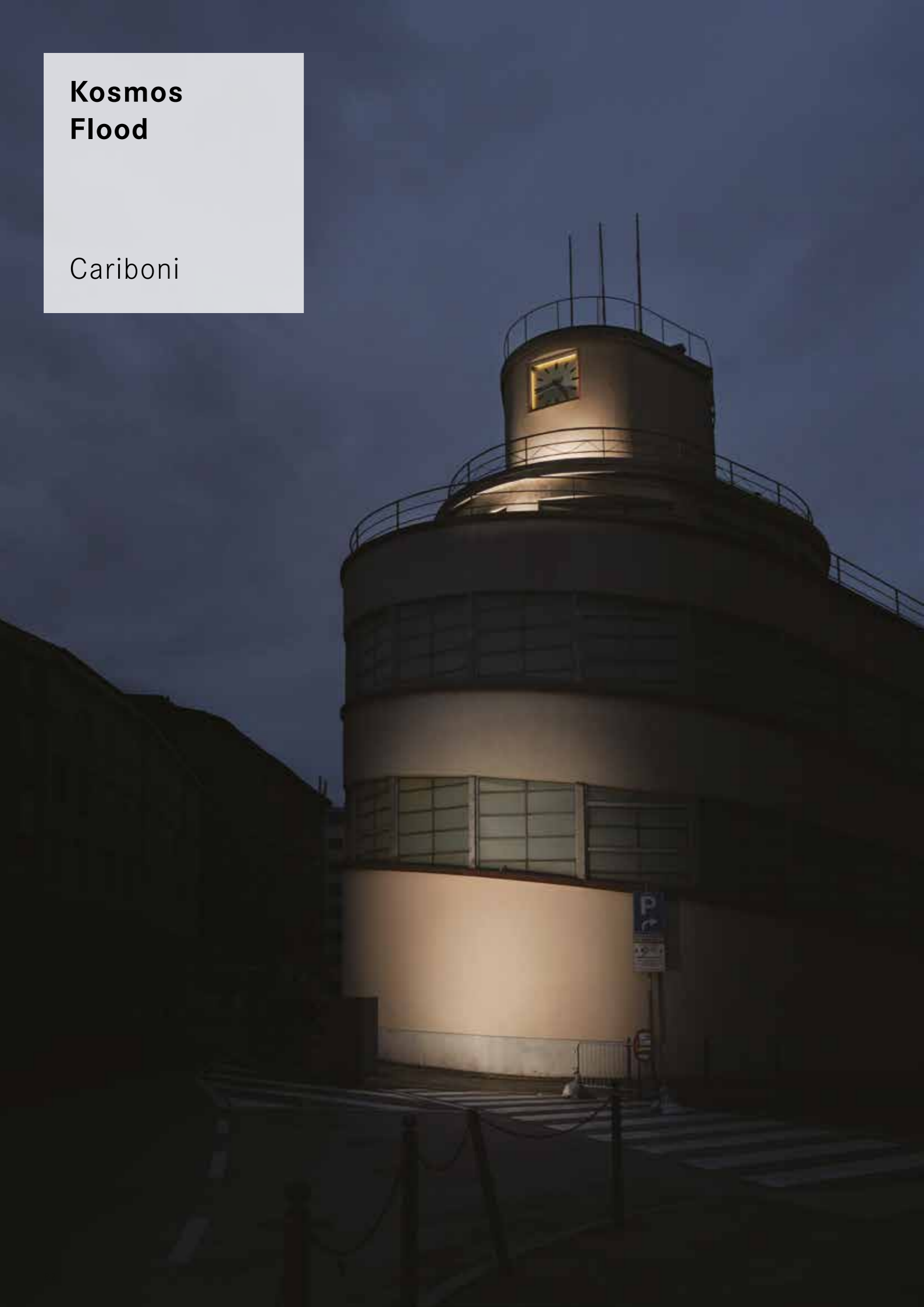
06KS909C0

Connettore 4 vie IP68
 4-way connector IP68
 4-Wege-Stecker IP68



Kosmos Flood

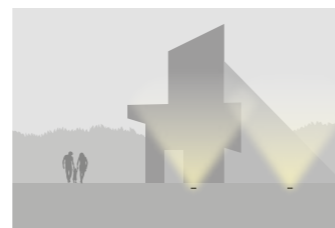
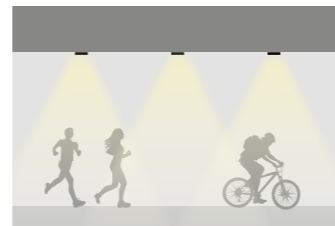
Cariboni



Kosmos P. 382



220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 CLO on request DALI Main voltage variation Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



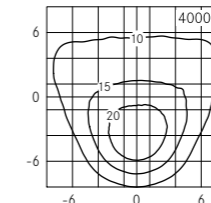
2125-11915lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

LT-06



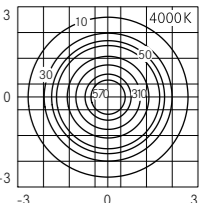
Asymmetrical large beam (H= 5m)



LR-20



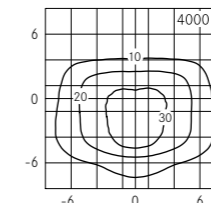
Kosmos small Rotosymmetrical (H= 5m)



LT-05



Asymmetrical medium beam (H= 5m)



Installazione: palo, superfici orizzontali e verticali
Installation: pole, horizontal and vertical surfaces
Installation: Mast, horizontale und vertikale Flächen

Kosmos Flood



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



160.000h
L80B20
L80B10
Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



Precablaggio
Pre-wiring
Vorverkabelung

2200K

Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Elevata resistenza agli urti (IK09)
Maximum impact resistance (IK09)
Maximum Stoßfestigkeitsgrad (IK09)



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Sistema acqua stop
Water stop system
Wasserstopp-System



CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage



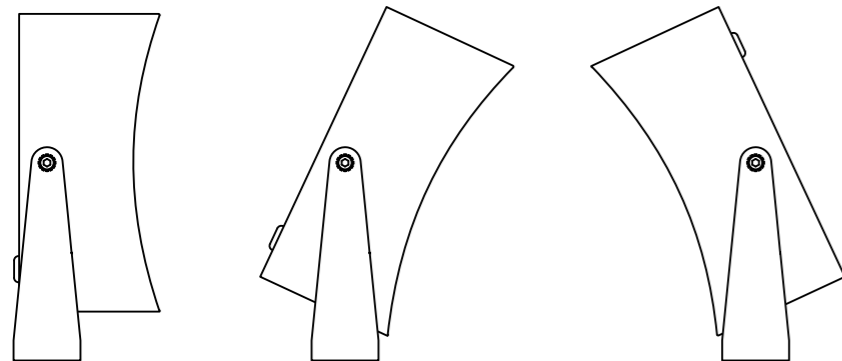
Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Orientabilità

Inclinazione -25° +205°.
Sistema di puntamento e blocco in regolazione continua.
Cavo e dispositivo di connessione elettrica integrato nel sistema di fissaggio.

Orientability

Tilt -25° +205°.
Continuously-adjustable pointing and locking system.
Cable and electrical connection device integrated into the fastening system.

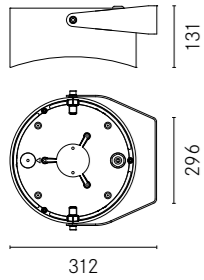
Ausrichtbarkeit

Neigung -25° +205°.
Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung.
Kabel und Vorrichtung für den elektrischen Anschluss im Befestigungssystem integriert.





Kosmos Flood flood small



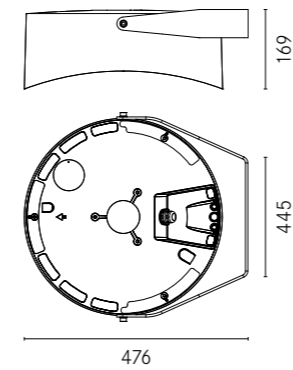
Max weight: 4.2kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

Kosmos Flood S		
06KS5		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
3985lm 24W	3800lm 24W	
B2	B2	
mA		
700	525	
0	5	
350		
3		
K		
4000	3000	
0	9	
Optics		
LT-06	LT-05	LR-20
37	38	42
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight and DALI standard		
HM4		

Esempio Example Beispiel

06KS5	B2	0	0	37	C	HM4
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Kosmos Flood flood medium



Max weight: 9.2kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos Flood M		
06KS6		
Led (source flux) Ref. @700mA @4000K		
4070lm 24W	8045lm 48W	11915lm 72W
B2	C4	D6
Led (source flux) Ref. @700mA @3000K		
3885lm 24W	7670lm 48W	11360lm 72W
B2	C4	D6
mA		
700	525	350
0	5	3
K		
4000	3000	2200*
0	9	1
*Only 48W and 72W Optics LT-6		
Optics		
LT-06	LT-05	LR-20
37	38	42
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight and DALI standard		
HM4		

Accessori Accessories Zubehör

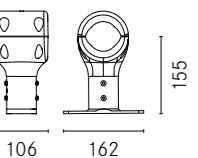
06KS909C0

Connettore 4 vie IP68
 4-way connector IP68
 4-Wege-Stecker IP68



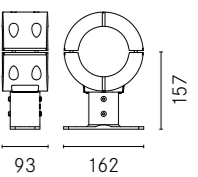
06KS916C0 - Sablé100

B78 Kit attacco staffa-palo Ø60mm
 B78 Kit for bracket-pole mounting Ø60mm
 B78 Kit für Halterungsstange Ø60mm



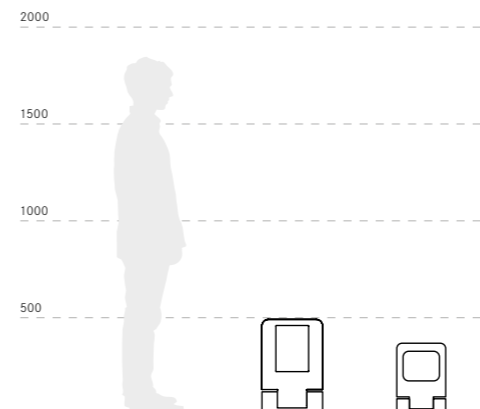
06KS917C0 - Sablé100

B97 Kit attacco staffa-palo Ø102mm
 B97 Kit for bracket-pole mounting Ø102mm
 B97 Kit für Halterungsstange Ø102mm



Levante Flood

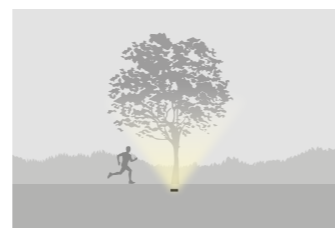
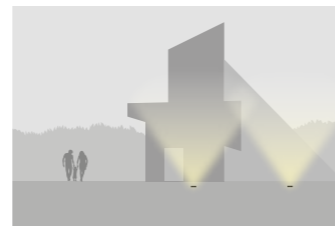
Cariboni



Levante Pole P. 368



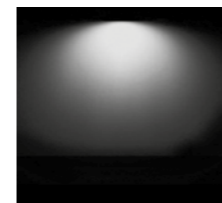
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK07	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 PLC on request 1-10V on request DALI on request Pilot line on request Main voltage variation on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



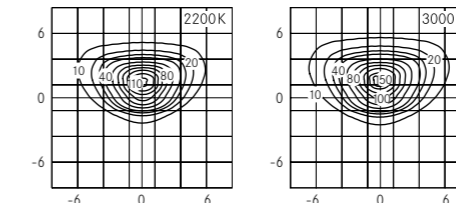
1700-15885 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

AS-D 36W



Asymmetrical wide beam (H= 4 m)



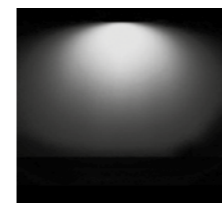
RS-C 36W



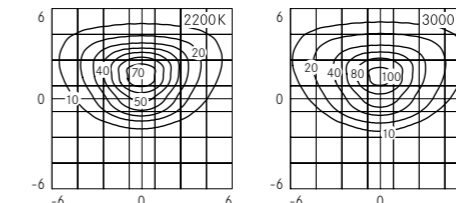
Rotosymmetrical narrow beam

3000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.26	32415	1	0.26	34015
2	0.53	8104	2	0.53	8504
3	0.79	3602	3	0.79	3779
4	1.06	2026	4	1.06	2126
5	1.32	1297	5	1.32	1361

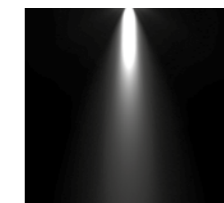
AS-D 24W



Asymmetrical wide beam (H= 4 m)



RS-C 24W



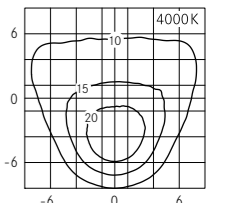
Rotosymmetrical narrow beam

3000K			4000K		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.26	22085	1	0.26	23164
2	0.53	5521	2	0.53	5791
3	0.79	2454	3	0.79	2574
4	1.06	1380	4	1.06	1448
5	1.32	883	5	1.32	927

LT-06



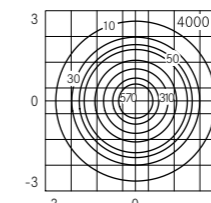
Asymmetrical large beam



LR-20



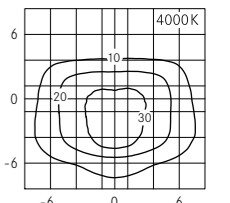
Rotosymmetrical



LT-05



Asymmetrical medium beam



Installazione: superfici orizzontali e verticali
Installation: horizontal and vertical surfaces
Installation: horizontale und vertikale Flächen

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Levante Flood



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



4K
ULTRA
HD
TLCI > 85 su richiesta
TLCI > 85 on request
TLCI > 85 auf Anfrage



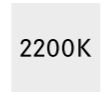
CRI > 80 SMCD = 4 su richiesta
CRI > 80 SMCD = 4 on request
CRI > 80 SMCD = 4 auf Anfrage



160.000h
L80B20
L80B10
Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



2200K
Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Sistema acqua stop
Water stop system
Wasserstopp-System



Orientabilità

Levante può essere orientato con precisione grazie alla base di fissaggio inclinabile $\pm 90^\circ$. Sistema di regolazione in step di 15° . Cavo e dispositivo di connessione elettrica integrato nel sistema di fissaggio.

Orientability

Levante can be oriented with precision thanks to its fixing base which can be tilted through $\pm 90^\circ$. Adjustment system in steps of 15° . Cable and electrical connection system integrated into the fastening system.

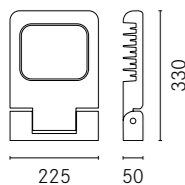
Ausrichtbarkeit

Levante lässt sich dank der um $\pm 90^\circ$ neigbaren Befestigungsbasis präzise ausrichten. Einstellsystem mit 15° -Step. Kabel und Vorrichtung für den elektrischen Anschluss im Befestigungssystem integriert.





Levante Flood flood small



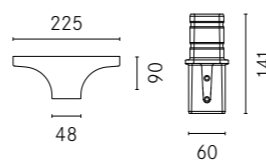
Max weight: 3kg
 Max exposed surface: 0.08m²
 Lateral exposed surface: 0.0165m²

Levante Flood S 06LV3		
Led (source flux) Ref. @700mA @4000K		
4090lm 24W B2	6075lm 36W B8	
Led (source flux) Ref. @700mA @3000K		
3900lm 24W B2	5790lm 36W B8	
mA		
700	525 350 0	
K		
4000 0	3000 9	2200* 1
*Only for 36W Optics AS-D		
Optics		
RS-C 4	AS-D 7	
Colors		
RAL9006 A	Sablé100 C	RAL9003 D
Smart Lighting		
Preset virtual midnight HM3		

Accessori Accessories Zubehör Levante small

06AK952A0 - RAL9006 / 06AK952C0 - Sablé100 / 06AK952D0 - RAL9003

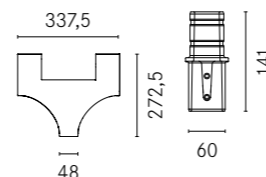
L9 Giunto per palo Ø60mm
L9 Die cast joint for post-top installation Ø60mm
 L9 Druckguss Mastverbindungstück für Ø60mm Mast



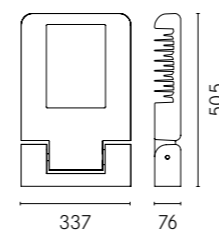
Accessori Accessories Zubehör Levante medium

06AK954A0 - RAL9006 / 06AK954C0 - Sablé100 / 06AK954D0 - RAL9003

L10 Giunto per palo Ø60mm
L10 Die cast joint for post-top installation Ø60mm
 L10 Druckguss Mastverbindungstück für Ø60mm Mast



Levante Flood flood medium



Max weight: 8kg
 Max exposed surface: 0.17m²
 Lateral exposed surface: 0.035m²

Levante Flood M 06LV6		
Led (source flux) Ref. @700mA @4000K		
8085lm 48.5W C4	12060lm 72.5W D6	15885lm 96W E8
Led (source flux) Ref. @700mA @3000K		
7705lm 48.5W C4	11500lm 72.5W D6	15145lm 96W E8
mA		
700	525 350 0	
K		
4000 0	3000 9	
Optics		
LT-5 38	LT-6 37	LR-20 42
Colors		
RAL9006 A	Sablé100 C	RAL9003 D
Smart Lighting		
Preset virtual midnight HM3		

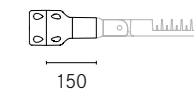
Esempio Example Beispiel

06LV6	D6	0	9	2	A	HM3
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Accessori Accessories Zubehör Levante small/medium

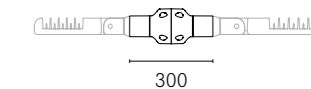
06AK903A0 - RAL9006 / 06AK903C0 - Sablé100

L3 Kit giunto singolo per palo Ø60-76mm
L3 Kit simple joint for post Ø60-76mm
 L3 Kit Einzelmastanschlussstück für Ø60-76mm Mast



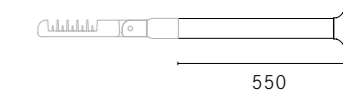
06AK904A0 - RAL9006 / 06AK904C0 - Sablé100

L4 Kit giunto doppio per palo Ø60-76mm
L4 Kit double joint for Post Ø60-76mm
 L4 Kit Doppelmastanschlussstück für Ø60-76mm Mast



06AK951A0 - RAL9006 / 06AK951C0 - Sablé100

B1-P Braccio parete Ø60mm
B1-P Wall Bracket Ø60mm
 B1-P Wandausleger Ø60mm Mast



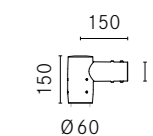
06AK953C0 - Sablé100

I1 Picchetto per interramento
I1 Stake for ground installation
 I1 Pflock für Bodeninstallation



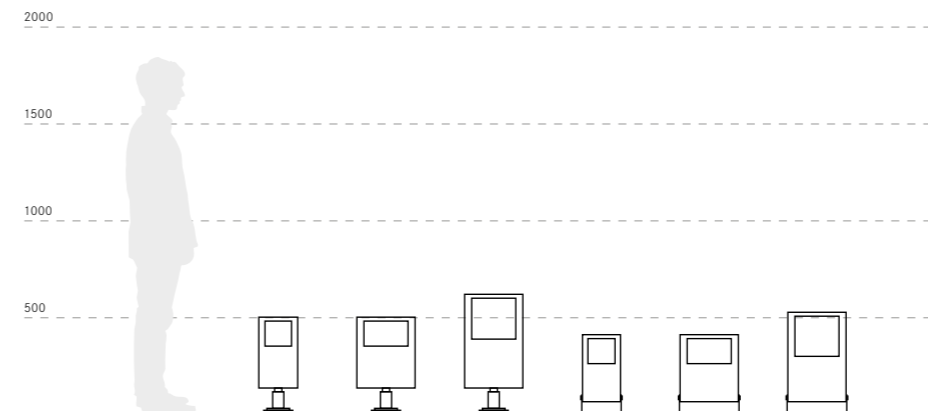
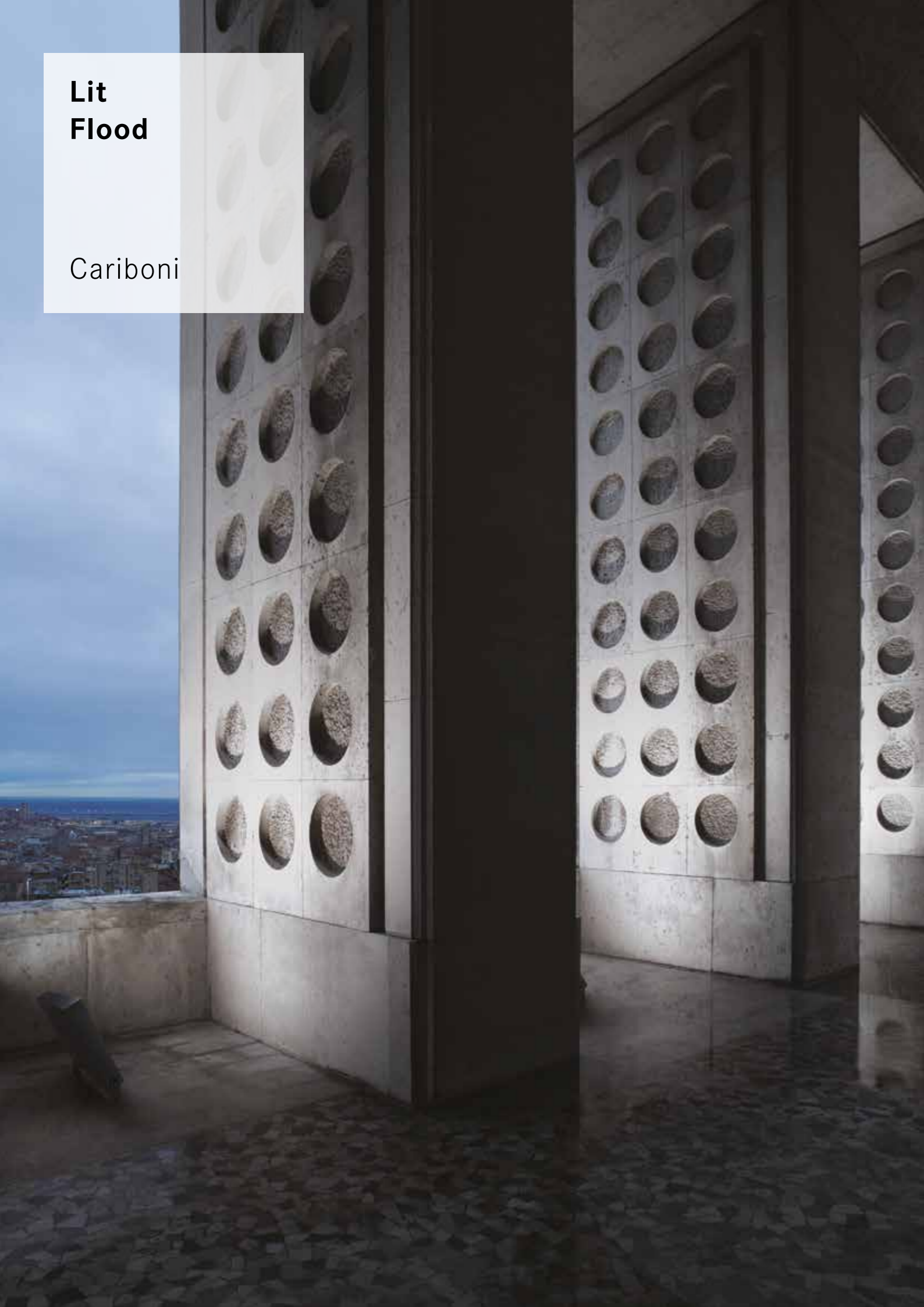
06AK905C0 - Sablé100

B153 Giunto testa palo Ø60mm
B153 Joint post top Ø60mm
 B153 Druckguss Mastverbindungstück Ø60mm Mast



Lit Flood

Cariboni



Lit P. 342

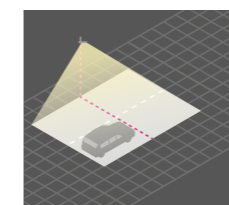


220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK10	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 Main voltage variation DALI CLO on request Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

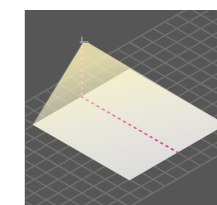
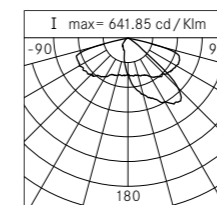


2425-19915 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

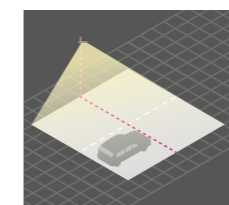
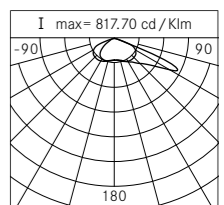
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



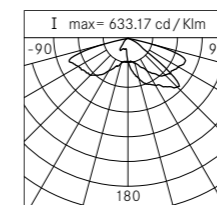
ME-03 (L/H= 1.1)



LT-62 (L/H= 2)



LA-02 (L/H= 1.25)



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

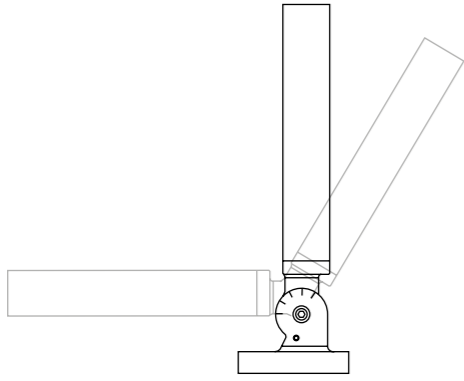
Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Installazione: parete, terra, superfici orizzontali e verticali
Installation: wall, ground, horizontal and vertical surfaces
Installation: wand, boden, horizontale und vertikale Flächen

	Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen		Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C		Elevata resistenza agli urti (IK10) <i>Maximum impact resistance (IK10)</i> Maximum Stoßfestigkeitsgrad (IK10)		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
CLO	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Dimensioni compatte <i>Dimensions compact</i> Kompakten Abmessungen		Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten		Flicker free <i>Flicker free</i> Flicker free
	Sistema acqua stop <i>Water stop system</i> Wasserstopp-System	4K ULTRA HD	TLCI>85 su richiesta <i>TLCI>85 on request</i> TLCI>85 auf Anfrage		

Lit Flood



Orientabilità

Inclinazione $-90^{\circ} + 35^{\circ}$. Sistema di puntamento e blocco in regolazione continua.

Cavo e dispositivo di connessione elettrica integrato nel sistema di fissaggio.

Orientability

Tilt $-90^{\circ} + 35^{\circ}$. Continuously-adjustable pointing and locking system.

Cable and electrical connection device integrated into the fastening system.

Ausrichtbarkeit

Neigung $-90^{\circ} + 35^{\circ}$. Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung.

Kabel und Vorrichtung für den elektrischen Anschluss im Befestigungssystem integriert.

Design sistemico

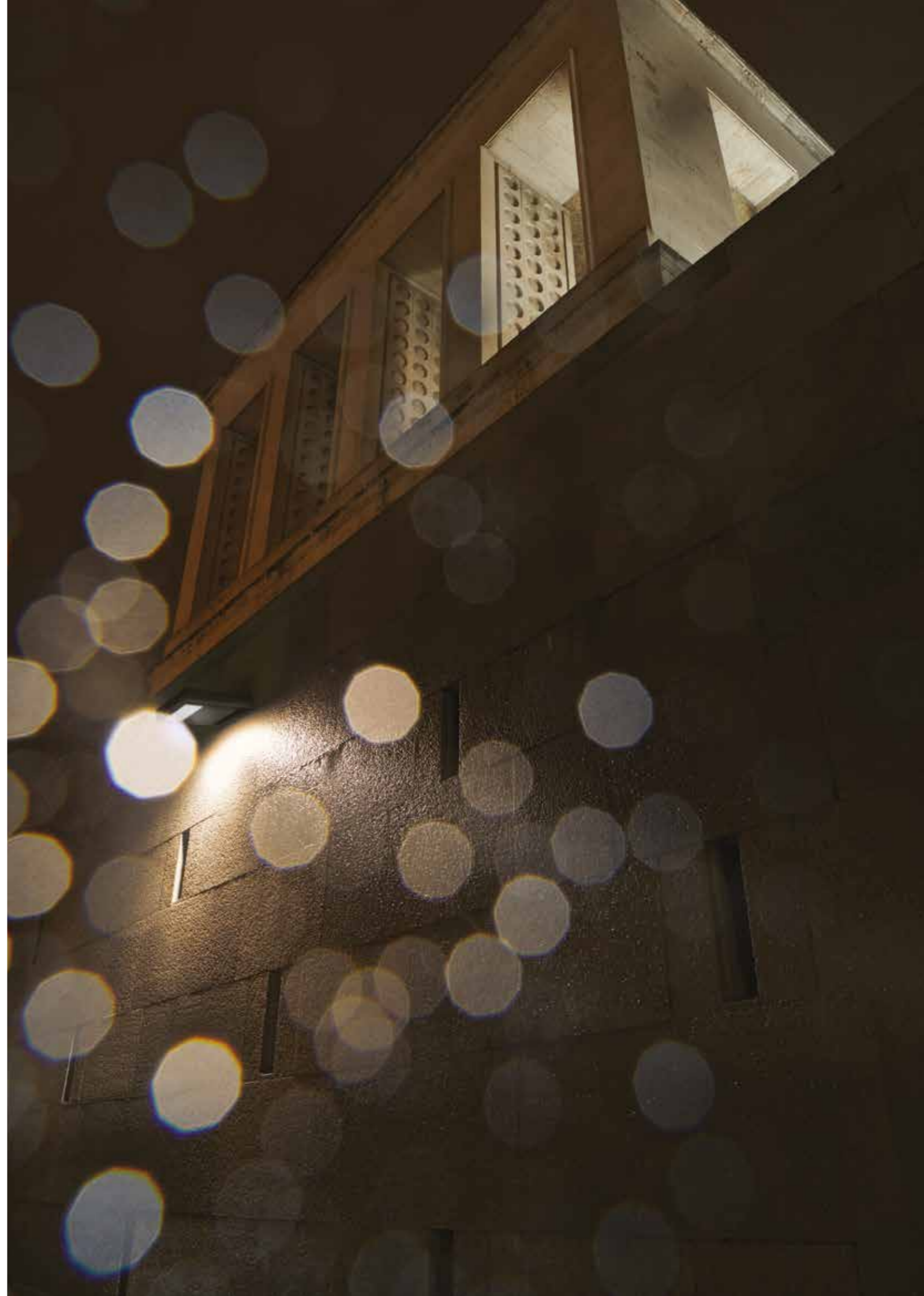
Le differenti modalità di installazione e l'orientabilità dei prodotti rispondono alle specifiche richieste funzionali e architettoniche di ogni contesto urbano. La possibilità di combinare ogni distribuzione fotometrica con i differenti accessori di fissaggio consente ai progettisti di illuminare ogni spazio urbano con originali configurazioni di sistema. I prodotti della linea Lit Flood possono essere installati senza necessità di aprire l'apparecchio. Il prodotto infatti è fornito pre-cablato per un'installazione semplice, veloce e sicura.

Systemic design

The various modes of installation and the orientability of the product respond to specific functional and architectural requirements of each urban context. The possibility to combine each photometric distribution with various mounting accessories allows designers to illuminate differing urban spaces with original system configurations. The products from the Lit Flood line can be installed without the need to open the units. The product is, in fact, supplied pre-wired, permitting simple, rapid and safe installation.

Systemisches Design

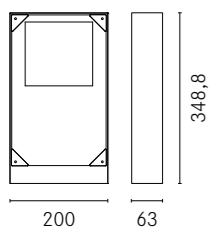
Die verschiedenen Installationsmodalitäten und die Ausrichtbarkeit der Produkte entsprechen den spezifischen funktionellen und architektonischen Anforderungen jedes städtischen Kontextes. Die Möglichkeit, jede photometrische Verteilung mit den verschiedenen Befestigungszubehörteilen zu kombinieren, ermöglicht es den Entwerfern, jeden städtischen Raum mit originellen Systemkonfigurationen zu beleuchten. Die Produkte der Lit Flood-Produktreihe können installiert werden, ohne dass das Gerät geöffnet werden muss. Das Produkt wird in der Tat verkabelt für eine einfache, schnelle und sichere Installation geliefert.



220 240V	50 60Hz	CL II	IP66	IK10
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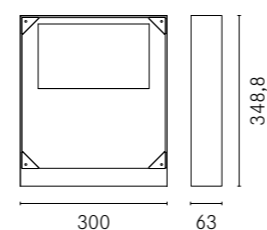
Lit Flood flood 1 small



Max weight: 5kg
 Max exposed surface: 0.08m²
 Lateral exposed surface: 0.035m²

Lit 1 S		
06LT6		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
5165lm 31W	4295lm 31W	
A4	A4	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

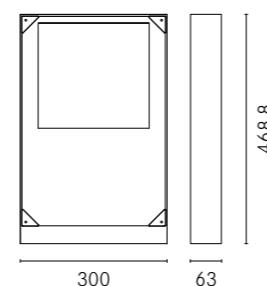
Lit Flood flood 1 medium



Max weight: 6.50kg
 Max exposed surface: 0.12m²
 Lateral exposed surface: 0.035m²

Lit 1 M		
06LT7		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
10115lm 62W	8415lm 62W	
A8	A8	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Lit Flood flood 1 large



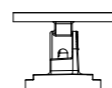
Max weight: 8kg
 Max exposed surface: 0.15m²
 Lateral exposed surface: 0.042m²

Lit 1 L		
06LT8		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
19915lm 124W	16570lm 124W	
B6	B6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Accessori Accessories Zubehör Lit Flood small

06LT901C0 - Sablé100

Giunto orientabile piastra Lit Flood staffa
 Adjustable joint for board Lit Flood
 Justierbares Gelenk für Platte Lit Flood



Accessori Accessories Zubehör Lit Flood medium / large

06LT902C0 - Sablé100

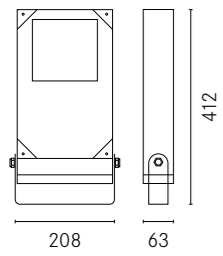
Giunto orientabile piastra Lit Flood staffa
 Adjustable joint for board Lit Flood
 Justierbares Gelenk für Platte Lit Flood



Esempio Example Beispiel

06LT8	B6	0	0	A0	C	HM4
--------------	-----------	----------	----------	-----------	----------	------------

Lit Flood flood 2 small



Max weight: 5 kg

Max exposed surface: 0.08m²Lateral exposed surface: 0.035m²

Lit 2 S

06LT2

Led (source flux):
Ref. @700mA @4000K Ref. @700mA @3000K

5165lm 31W	4295lm 31W
------------	------------

A4	A4
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

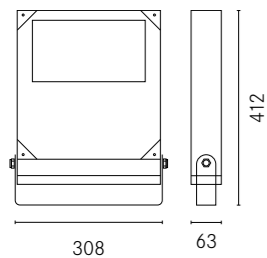
Colors

Sablé100
C

Smart Lighting

Custom programmable virtual midnight
HM4

Lit Flood flood 2 medium



Max weight: 6.50kg

Max exposed surface: 0.12m²Lateral exposed surface: 0.035m²

Lit 2 M

06LT3

Led (source flux):
Ref. @700mA @4000K Ref. @700mA @3000K

10115lm 62W	8415lm 62W
-------------	------------

A8	A8
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100
C

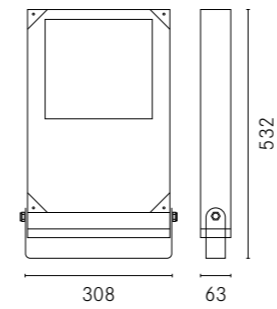
Smart Lighting

Custom programmable virtual midnight
HM4

Esempio *Example* Beispiel

06LT3	A8	0	0	A0	C	HM4
--------------	-----------	----------	----------	-----------	----------	------------

Lit Flood flood 2 large



Max weight: 8 kg

Max exposed surface: 0.15m²Lateral exposed surface: 0.042m²

Lit 2 L

06LT4

Led (source flux):
Ref. @700mA @4000K Ref. @700mA @3000K

19915lm 124W	16570lm 124W
--------------	--------------

B6	B6
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100
C

Smart Lighting

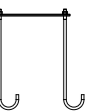
Custom programmable virtual midnight
HM4

Accessori *Accessories* Zubehör Lit Flood**06LT909J0 - Sablé100**

Ancore per calcestruzzo

Anchor for concrete

Anker für Beton

**06LT908C0 - Sablé100**

Picchetto per interrimento

Picket for ground installation

Erdspieß für Bodeninstallation

**06KS918C0 / 06KS909C0**

Connettore 2 vie - Connettore 4 vie IP68

2-way connector - 4-way connector IP68

2-Wege-Stecker - 4-Wege-Stecker IP68



Lit Flood Flood

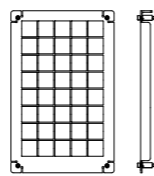
Accessori *Accessories* Zubehör Lit Flood small

06LT905C0 - Sablé100

Griglia

Grid

Schutzgitter



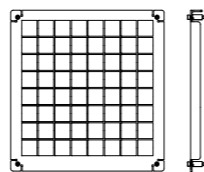
Accessori *Accessories* Zubehör Lit Flood medium

06LT906C0 - Sablé100

Griglia

Grid

Schutzgitter



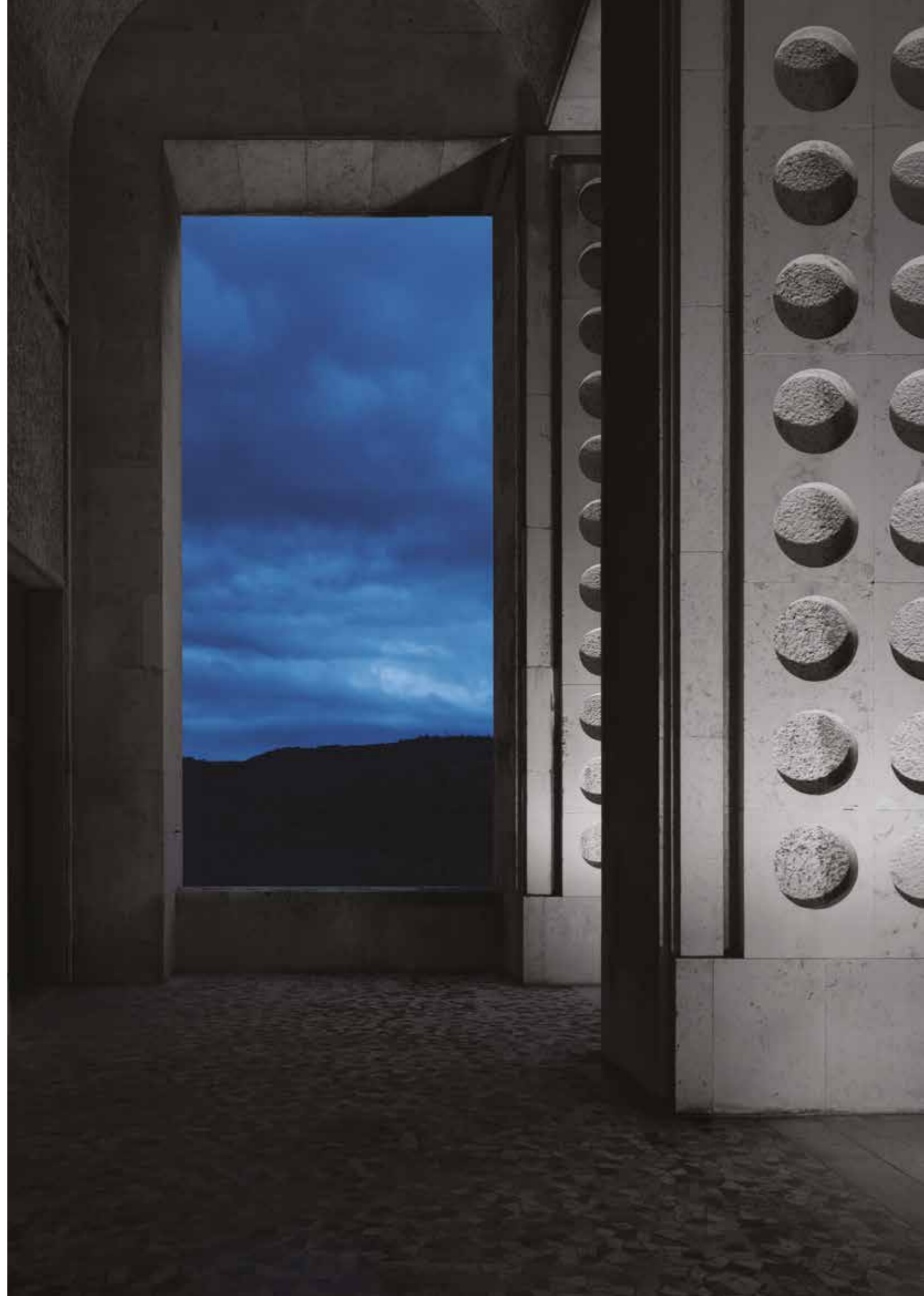
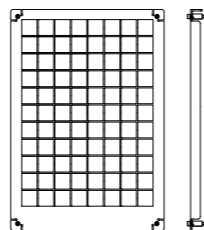
Accessori *Accessories* Zubehör Lit Flood large

06LT907C0 - Sablé100

Griglia

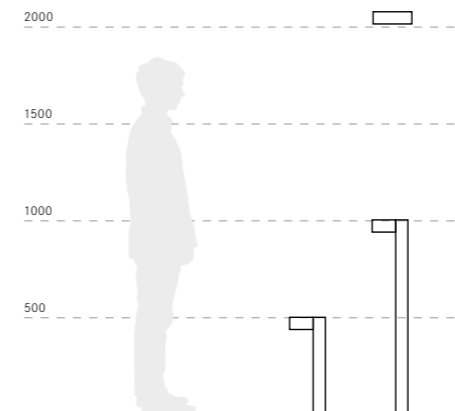
Grid

Schutzgitter



Lit XS

Cariboni





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
ON OFF DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

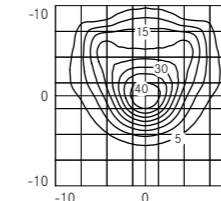


470-500lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

AS-D



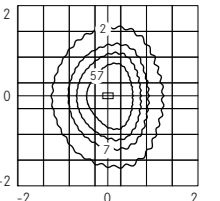
Wall small Asymmetrical wide beam (H= 4 m)



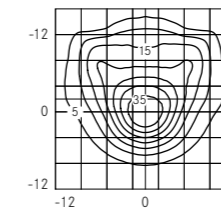
AS-D



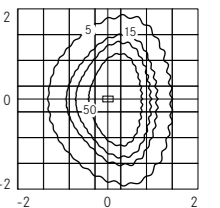
Bollard 500 Asymmetrical wide beam



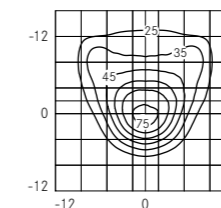
Wall medium Asymmetrical wide beam (H= 6 m)



Bollard 1000 Asymmetrical wide beam



Wall medium Asymmetrical wide beam (H= 8 m)



Installazione: parete, terra
Installation: wall, ground
Installation: wand, boden

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52



Schermatura sorgenti
Hidden Light Emitting Surfaces
Abschirmung der Lichtquellen



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30° C +50° C
Ta -30° C +50° C
Ta -30° C +50° C



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Precablaggio
Pre-wiring
Vorverkabelung



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Flicker free
Flicker free
Flicker free



Sistema acqua stop
Water stop system
Wasserstopp-System

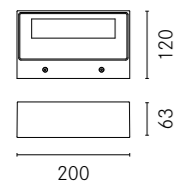


4K ULTRA HD
TLCI>85 su richiesta
TLCI>85 on request
TLCI>85 auf Anfrage

220 240V	50 60Hz	CL I	IP65	IK08
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Lit XS



Max weight: 2 kg
 Max exposed surface: 0.024m²
 Lateral exposed surface: 0.008m²

Lit XS	
06LT1	
Led (source flux): Ref. @4000K	Ref. @3000K
500lm 6W	470lm 6W
A2	A2
K	
4000	3000
0	9
Optics	
AS-D	
C5	
Colors	
Sablé100	
C	

Esempio *Example* Beispiel

06LT1	A2	0	C5	C
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Accessori *Accessories* Zubehör Lit XS wall/bollard**06KS909C0**

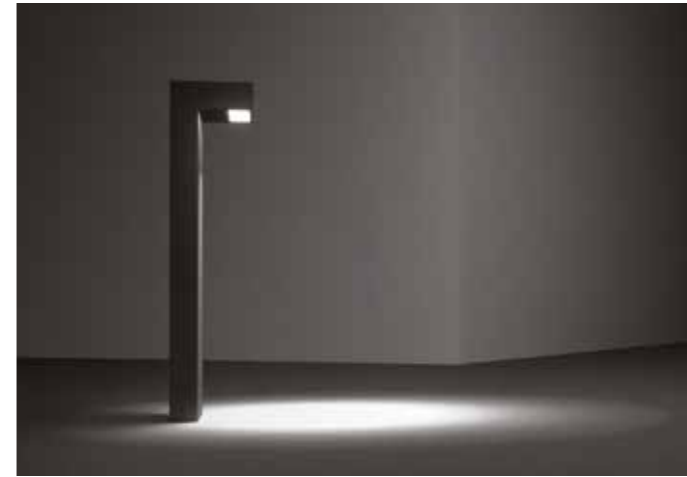
Connettore 4 vie IP68
 4-way connector IP68
 4-Wege-Stecker IP68

**06KS918C0**

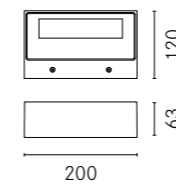
Connettore 2 vie IP68
 2-way connector IP68
 2-Wege-Stecker IP68



220 240V	50 60Hz	CL I	IP65	IK08
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Lit XS



Bollard 500
 Max weight: 4 kg (pole included)
 Max exposed surface: 0.1 m²
 Lateral exposed surface: 0.04 m²

Bollard 1000
 Max weight: 6 kg (pole included)
 Max exposed surface: 0.2 m²
 Lateral exposed surface: 0.07 m²

Esempio *Example* Beispiel

06LT1	A2	0	C5	C
--------------	-----------	----------	-----------	----------

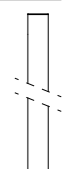
Lit XS	
06LT1	
Led (source flux): Ref. @4000K	Ref. @3000K
500lm 6W	470lm 6W
A2	A2
K	
4000	3000
0	9
Optics	
AS-D	
C5	
Colors	
Sablé100	
C	

Accessori *Accessories* Zubehör Lit XS bollard**06LT924C0 - Sablé100**

Palo H 500mm, 200x63mm
 Pole H 500mm, 200x63mm
 Mast H 500mm, 200x63mm

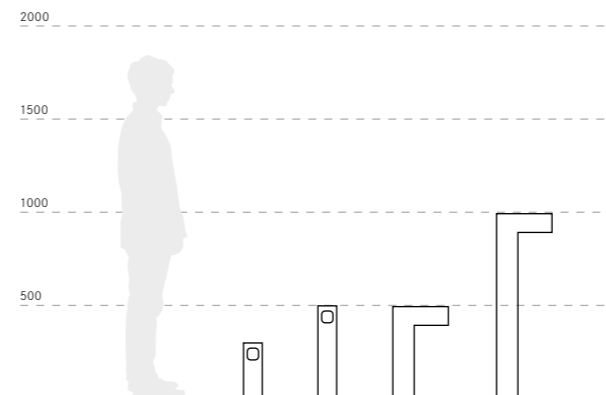
**06LT925C0 - Sablé100**

Palo H 1000mm, 200x63mm
 Pole H 1000mm, 200x63mm
 Mast H 1000mm, 200x63mm



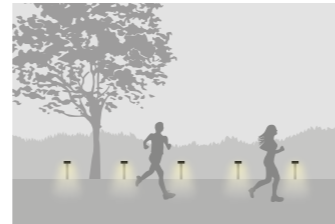
Paule System

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

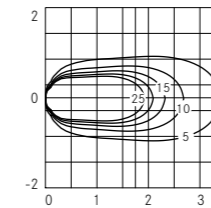


845-1690lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

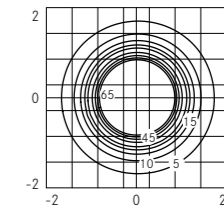
D



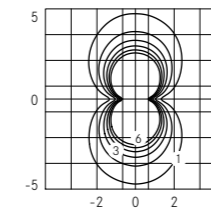
IB Bollard 300 Wide beam



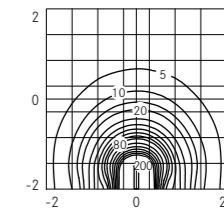
LB Bollard 500 Wide beam



IB Bollard 500 Wide beam



LB Bollard 1000 Wide beam



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52



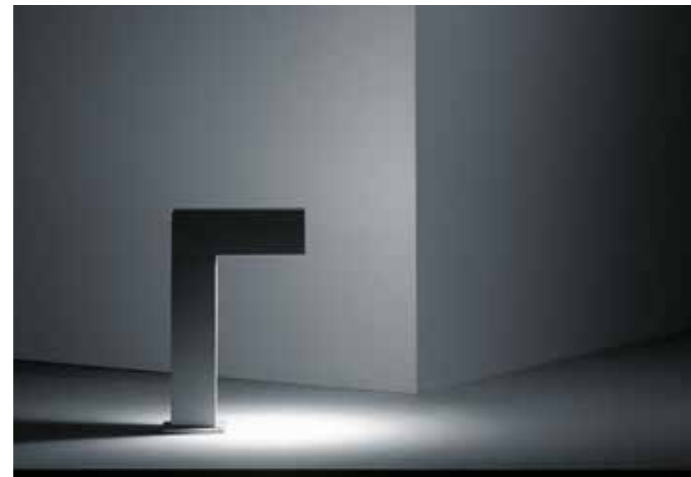
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



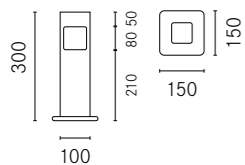
Precablaggio
Pre-wiring
Vorverkabelung



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Paule System IB bollard 300



Max weight: 3kg
 Max exposed surface: 0.03m²
 Lateral exposed surface: 0.03m²

Paule System IB 300
06PS1

Led (source flux)
 845lm 8W
A4

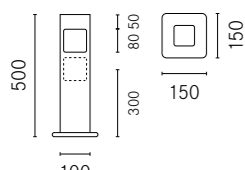
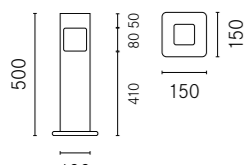
mA
 700
0

K
 4000
0

Optics
 D
9

Colors
 RAL9006 **A** Sablé100 **C** Screen sandblasted flat glass **J**

Paule System IB bollard 500



Max weight: 5kg
 Max exposed surface: 0.05m²
 Lateral exposed surface: 0.05m²

Paule System IB 500-2-S
06PS2

Led (source flux)
 2x845lm 16W
A8

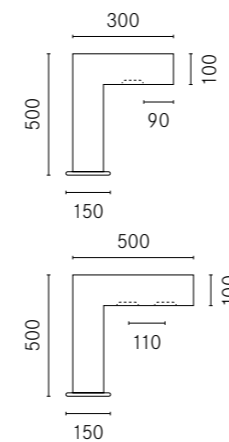
mA
 700
0

K
 4000
0

Optics
 D
9

Colors
 RAL9006 **A** Sablé100 **C** Screen sandblasted flat glass **J**

Paule System LB bollard 500



Max weight: 4kg
 Max exposed surface: 0.05m²
 Lateral exposed surface: 0.08m²

Paule System LB 500-2-S
06PSL1

Led (source flux)
 2x845lm 16W
A8

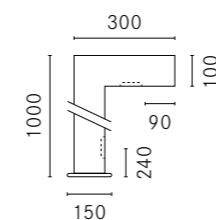
mA
 700
0

K
 4000
0

Optics
 D
9

Colors
 RAL9006 **A** Sablé100 **C** Screen sandblasted flat glass **J**

Paule System LB bollard 1000



Max weight: 5kg
 Max exposed surface: 0.10m²
 Lateral exposed surface: 0.15m²

Paule System LB 1000-2-S
06PSL2

Led (source flux)
 2x845lm 16W
A8

mA
 700
0

K
 4000
0

Optics
 D
9

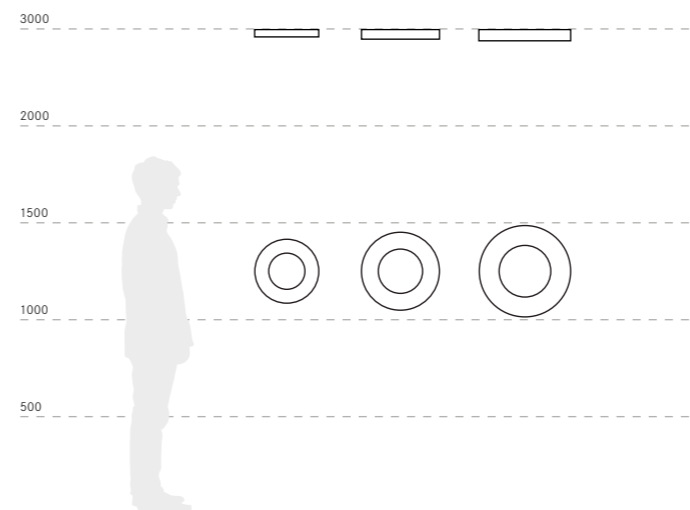
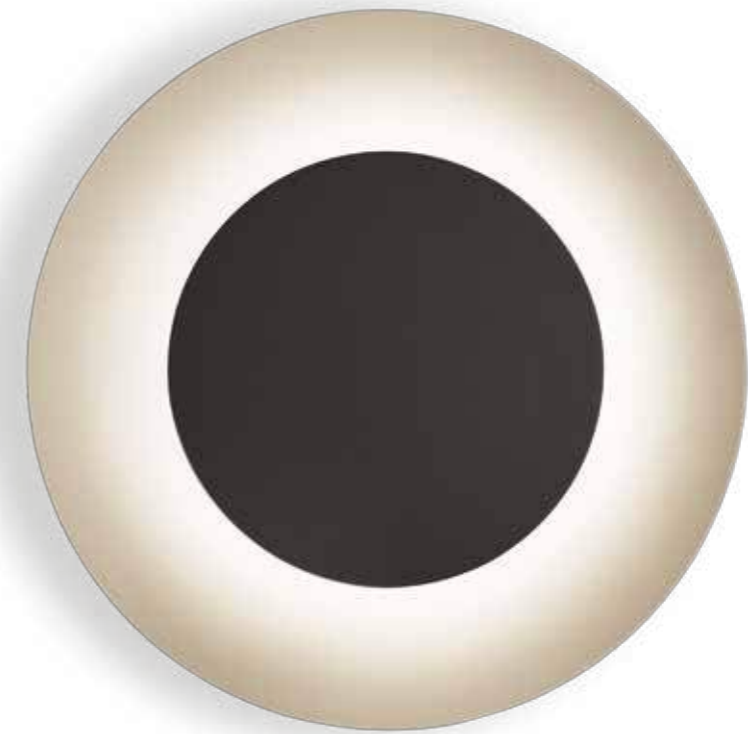
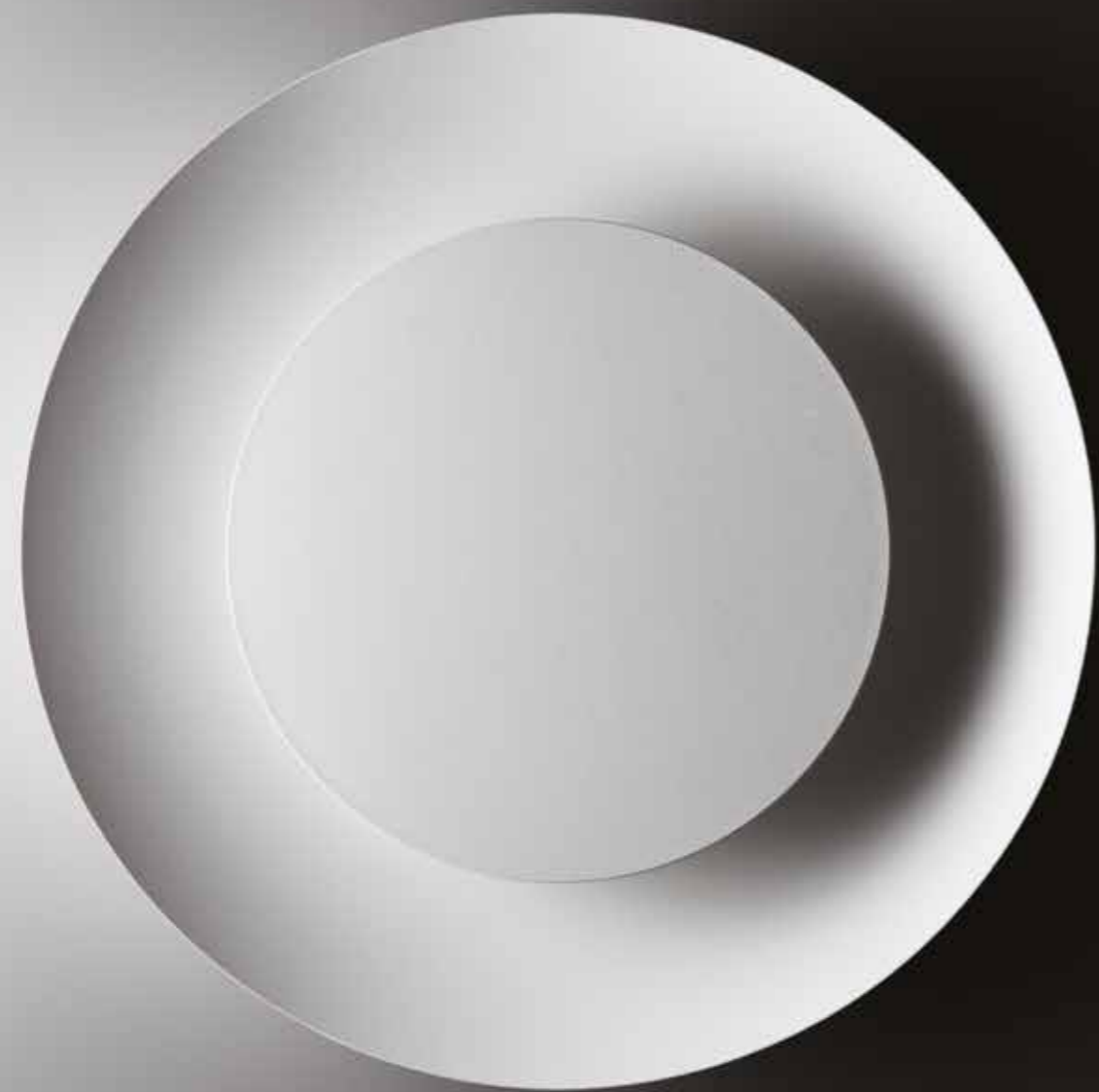
Colors
 RAL9006 **A** Sablé100 **C** Screen sandblasted flat glass **J**

Esempio *Example* Beispiel

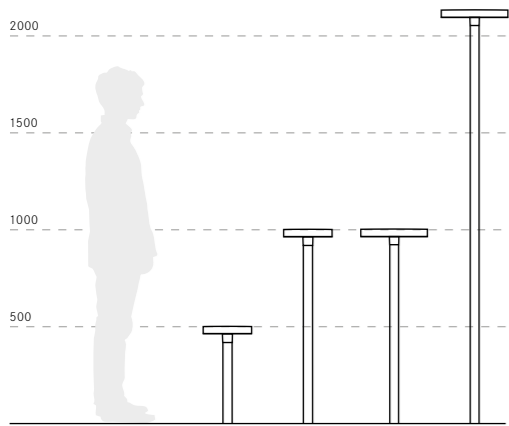
06PSL2 **A8** **0** **0** **9** **C**

Ekleipsis

Cariboni

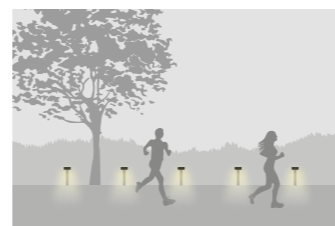


Ekleipsis Pole P. 322



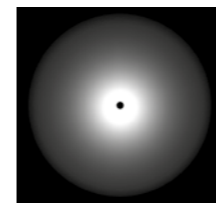


220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I Ekleipsis wall / ceiling / ceiling recessed CL II Ekleipsis bollard	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08 IK10 Ekleipsis bollard small	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
8kV Ekleipsis bollard medium 10kV Ekleipsis bollard small	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-10° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request for Ekleipsis medium / large	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

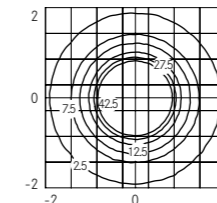


1000-3600lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

RS-D



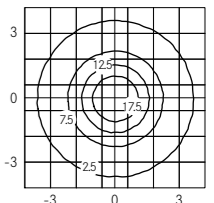
Bollard small 500 Rotosymmetrical wide beam



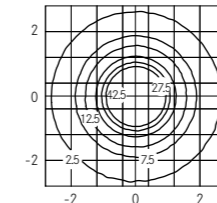
D



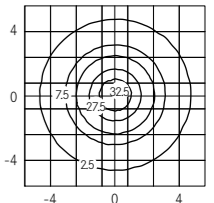
Wall small Wide beam



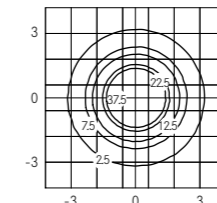
Bollard small 1000 Rotosymmetrical wide beam



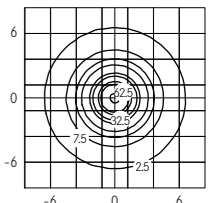
Wall medium Wide beam



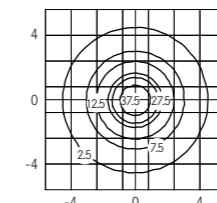
Bollard medium 1000 Rotosymmetrical wide beam



Wall large Wide beam



Bollard medium 2300 Rotosymmetrical wide beam



Installazione: parete, soffitto, incasso soffitto, bollard

Installation: wall, ceiling, ceiling recessed, bollard

Installation: wandleuchte, deckenleuchte, deckeneinbauleuchte, pollerleuchte

220 240V	50 60Hz	CL II	IP66	IK08 medium	IK10 small
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Ceiling recessed small Wide beam			Ceiling recessed large Wide beam		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	3.6	28	1	4.4	87
2	7.2	7	2	8.8	22
3	10.9	3	3	13.2	10
4	14.5	2	4	17.6	5
5	18	1	5	22	3

Ceiling recessed medium Wide beam		
H (m)	Ø (m)	Em (lux)
1	4.2	42
2	8.6	11
3	13	5
4	17.2	3
5	20	2



	<p>illuminazione indiretta <i>Indirect Lighting</i> Indirekte Beleuchtung</p>		<p>Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische</p>		<p>Precablaggio <i>Pre-wiring</i> Vorverkabelung</p>
	<p>Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten</p>		<p>CRI≥90 SMCD=3 <i>CRI≥90 SMCD=3</i> CRI≥90 SMCD=3</p>		<p>Sistema acqua stop <i>Water stop system</i> Wasserstopp-System</p>
	<p>Assenza di viti a vista <i>No visible screws</i> Fehlen sichtbarer Schrauben</p>		<p>Dimensioni incasso ridotte <i>Reduced recessed dimensions</i> Reduzierte Einbaumaße</p>		<p>No vetro <i>No glass</i> Kein Glas</p>



Benessere visivo: emissione di luce indiretta e schermatura della sorgente
 Ottica indiretta diffondente. Il sistema ottico Ekleipsis nasconde completamente le sorgenti Led ed è composto da una lente TIR in PMMA e da un riflettore bianco in alluminio. La lente distribuisce uniformemente il flusso luminoso su tutto il riflettore. Il riflettore, grazie alla sua geometria ottenuta per rivoluzione di una curva polinomiale appositamente studiata e alla sua finitura in vernice a polveri bianche, diffonde nell'ambiente una luce morbida ad alto comfort visivo.

Visual comfort: Indirect Light Emission and Hidden Light Emitting Surface
Indirect diffused emission optic. The Ekleipsis optical system completely hides the LED light surfaces, and is composed of a TIR lens in PMMA and a white aluminium reflector. The lens evenly distributes the light beam over the entire surface of the reflector. Thanks to its shape, obtained through a specially-studied revolving polynomial curve, and a white powder-coated finish, the reflector distributes soft light with high levels of visual comfort.

Sehwohlbefinden: Ausstrahlung indirekten Lichts und Abschirmung der Lichtquelle
 Breitstrahlende indirekte Optik. Das Ekleipsis-Optiksystem versteckt die LED-Lichtquellen vollständig und besteht aus einer TIR-Linse aus PMMA und einem weißen Reflektor aus Aluminium. Die Linse verteilt den Lichtstrom gleichmäßig auf den gesamten Reflektor. Der Reflektor verteilt dank seiner Geometrie, die durch die Umdrehung einer speziell entworfenen polynomischen Kurve erhalten wird, und dank seiner weißem Pulverlackierung in der Umgebung ein weiches Licht mit hohem Sehkomfort.

Ekleipsis bollard small 500

Max weight: 4 kg (pole included)
 Max exposed surface: 0.045m²
 Lateral exposed surface: 0.293m²

Ekleipsis S 500 06EK5	
Led (source flux) 1000lm 12W D63	
K	
4000 0	3000 9
Optics RS-D 0	
Colors RAL9006 A	
Sablé100 C	

Ekleipsis bollard small 1000

Max weight: 4 kg (pole included)
 Max exposed surface: 0.045m²
 Lateral exposed surface: 0.508m²

Ekleipsis S 1000 06EK3	
Led (source flux) 1000lm 12W D63	
K	
4000 0	3000 9
Optics RS-D 0	
Colors RAL9006 A	
Sablé100 C	

Ekleipsis bollard medium 1000

Max weight: 9.5kg
 Max exposed surface: 0.092m²
 Lateral exposed surface: 0.023m²

Ekleipsis M 1000 06EK5	
Led (source flux) 1800lm 19W H23	
K	
4000 0	3000 9
Optics RS-D 0	
Colors RAL9006 A	
Sablé100 C	

Ekleipsis bollard medium 2300

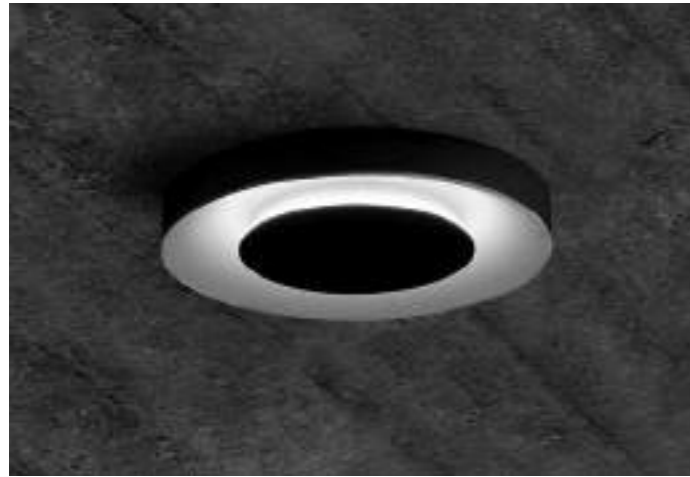
Max weight: 9.5kg
 Max exposed surface: 0.092m²
 Lateral exposed surface: 0.023m²

Ekleipsis M 2300 06EK4	
Led (source flux) 1800lm 19W H23	
K	
4000 0	3000 9
Optics RS-D 0	
Colors RAL9006 A	
Sablé100 C	

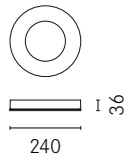
Esempio *Example* Beispiel

06EK4	H23	0	0	A
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Ekleipsis wall / ceiling small



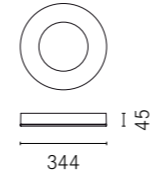
Max weight: 1.3kg
 Max exposed surface: 0.045m²
 Lateral exposed surface: 0.008m²

Ekleipsis S		
06EK1		
Led (source flux)		
1000lm 12W		
D63		
K		
4000	3000	
0	9	
Optics		
D		
0		
Colors		
RAL9006	Sablé100	RAL9003
A	C	D

Esempio *Example* Beispiel

06EK1	D63	9	0	A
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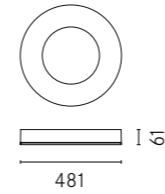
Ekleipsis wall / ceiling medium



Max weight: 2.4kg
 Max exposed surface: 0.092m²
 Lateral exposed surface: 0.015m²

Ekleipsis M		
06EK1		
Led (source flux)		
1800lm 19W		
H23		
K		
4000	3000	
0	9	
Optics		
D		
0		
Colors		
RAL9006	Sablé100	RAL9003
A	C	D

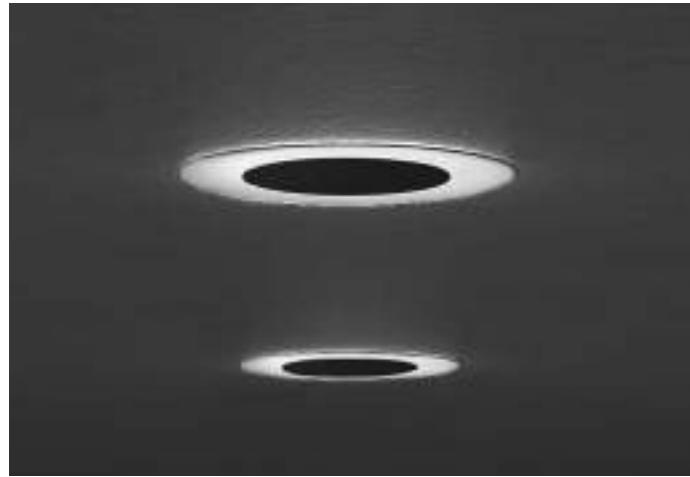
Ekleipsis wall / ceiling large



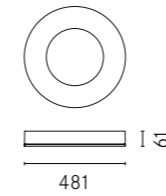
Max weight: 5.7kg
 Max exposed surface: 0.180m²
 Lateral exposed surface: 0.029m²

Ekleipsis L		
06EK1		
Led (source flux)		
3600lm 46W		
O03		
K		
4000	3000	
0	9	
Optics		
D		
0		
Colors		
RAL9006	Sablé100	RAL9003
A	C	D

220 240V	50 60Hz	CL I	IP66	IK08
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Ekleipsis ceiling recessed large



Max weight: 6.5kg
(kit recessed included)

Ekleipsis L
06EK1

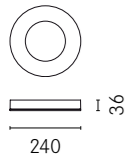
Led (source flux)
3600lm 46W
003

K
4000 3000
0 9

Optics
D
0

Colors
RAL9006 Sablé100 RAL9003
A C D

Ekleipsis ceiling recessed small



Max weight: 1.9kg
(kit recessed included)

Ekleipsis S
06EK1

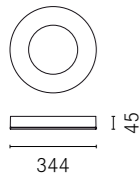
Led (source flux)
1000lm 12W
D63

K
4000 3000
0 9

Optics
D
0

Colors
RAL9006 Sablé100 RAL9003
A C D

Ekleipsis ceiling recessed medium



Max weight: 3.1 kg
(kit recessed included)

Ekleipsis M
06EK1

Led (source flux)
1800lm 19W
H23

K
4000 3000
0 9

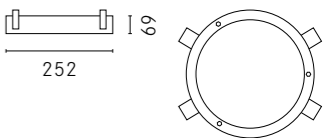
Optics
D
0

Colors
RAL9006 Sablé100 RAL9003
A C D

Accessori Accessories Zubehör Ekleipsis small

06EK900J

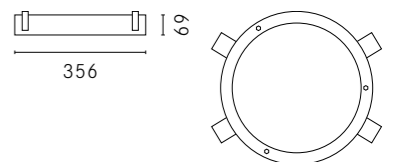
Kit incasso per cartongesso
Kit for recessed installation in plasterboard surfaces
Kit für Einbauinstallation in Gipsplatte-Flächen



Accessori Accessories Zubehör Ekleipsis medium

06EK901J

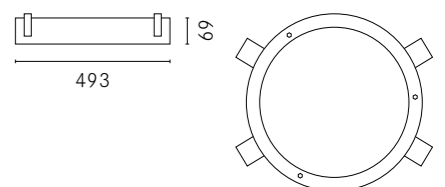
Kit incasso per cartongesso
Kit for recessed installation in plasterboard surfaces
Kit für Einbauinstallation in Gipsplatte-Flächen



Accessori Accessories Zubehör Ekleipsis large

06EK902J

Kit incasso per cartongesso
Kit for recessed installation in plasterboard surfaces
Kit für Einbauinstallation in Gipsplatte-Flächen

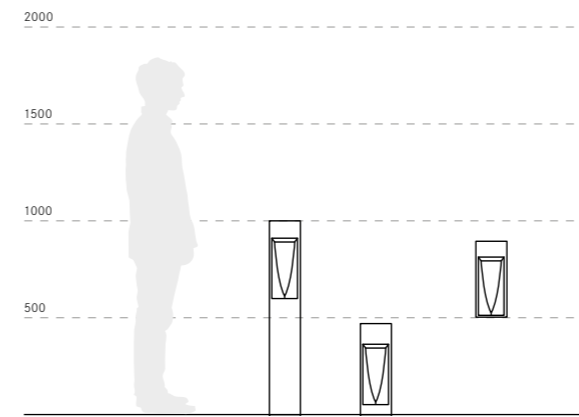


Esempio *Example* Beispiel

06EK1	H23	9	0	C
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Fin

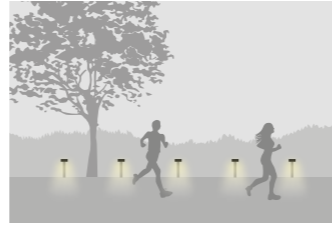
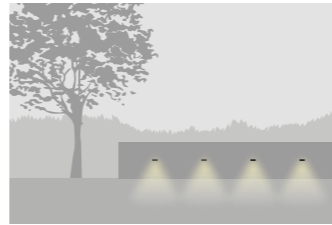
Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: incasso parete, terra
Installation: wall recessed, ground
Installation: Wandinbauleuchte, Boden

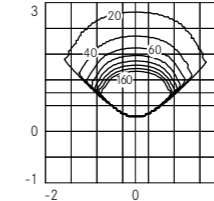


1615-1805lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

AS-D DOWN



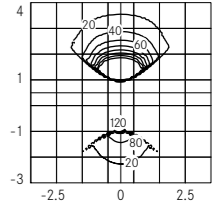
Bollard 500 Asymmetrical wide beam



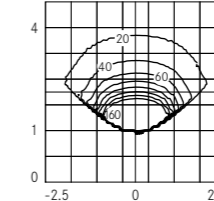
AS-D DOWN & UP



Bollard 1000 Asymmetrical wide beam



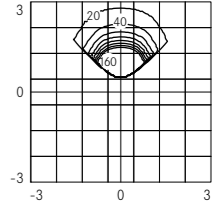
Bollard 1000 Asymmetrical wide beam



AS-D



Wall recessed (H= 0.5m) Asymmetrical wide beam



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Illuminazione indiretta
Indirect Lighting
Indirekte Beleuchtung

Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

Precablaggio
Pre-wiring
Vorverkabelung

Separabilità delle componenti
Separable components
Trennbare Komponenten



Benessere visivo e schermatura della sorgente

Le geometrie del sistema ottico Fin consentono di eliminare completamente l'abbagliamento grazie ad una completa schermatura delle sorgenti.

Visual comfort and Hidden Light Emitting Surfaces

The shape of the Fin optical system allows for the complete elimination of dazzling thanks to the complete screening of the light emitting surfaces.

Sehwohlbefinden und Abschirmung der Lichtquelle

Die Geometrien des Fin-Optiksystems ermöglichen die vollständige Beseitigung der Blendung dank einer kompletten Abschirmung der Lichtquellen.



Ottica Front & Back

Le distribuzioni luminose della linea Fin sono ideali per un'illuminazione discreta e accogliente di percorsi pedonali, passaggi, scale, aree verdi e giardini. I bollard della linea Fin sono disponibili con uno o con due moduli ottici contrapposti. Le versioni con emissione singola possono emettere flusso luminoso verso l'alto (UP) o verso il basso (DOWN). Le versioni con emissione doppia possono emettere flusso luminoso verso il basso da entrambi i lati (DOWN&DOWN) oppure un lato verso il basso e l'altro verso l'alto (UP&DOWN).

Front & Back optic

The light distribution offered by the Fin line is ideal for the discrete and welcoming illumination of walkways, passageways, stairways, green areas and gardens. The bollards in the Fin line are available with one or two opposing optical modules. The versions with single beam emission can project light either upwards (UP) or downwards (DOWN). The versions with double beam emission can either project light downwards on both sides (DOWN&DOWN), or down on one side and up on the other (UP&DOWN).

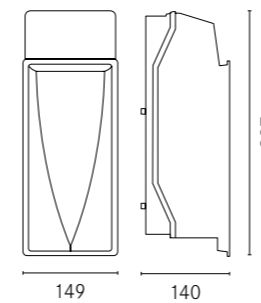
Front & Back Optik

Die Lichtverteilung der Fin-Produktreihe ist ideal für eine diskrete und behagliche Beleuchtung von Fußwegen, Passagen, Treppen, Grünflächen und Gärten. Die Pollerleuchten der Fin-Produktreihe sind mit einem oder zwei gegenüberliegenden Optikmodulen erhältlich. Die Versionen mit Einzelausstrahlung können den Lichtstrom nach oben (UP) oder nach unten (DOWN) ausstrahlen. Die Versionen mit Doppelausstrahlung können den Lichtstrom auf beiden Seiten nach unten (DOWN&DOWN) oder auf einer Seite nach unten und auf der anderen Seite nach oben (UP&DOWN) ausstrahlen.

230V 50Hz CL I IP65 IK08



Fin wall recessed vertical



Max weight: 4.70kg

Fin vert

06F11

Led (source flux):
Ref. @500mA @4000K Ref. @500mA @3000K

1805lm 14W

1690lm 14W

A9

A9

mA

500

4

K

4000

3000

0

9

Optics

AS-D

9

Colors

RAL9006

Sablé100

RAL9003

A

C

D

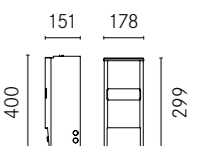
Esempio Example Beispiel

06F11 A9 4 0 9 C

Accessori Accessories Zubehör Fin

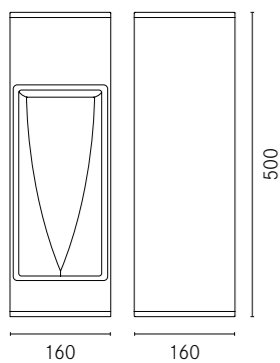
06F1990J0

Controcassa per installazione a parete
Recessed housing for wall installation
Gehäuse für Wandinstallation





Fin bollard 500



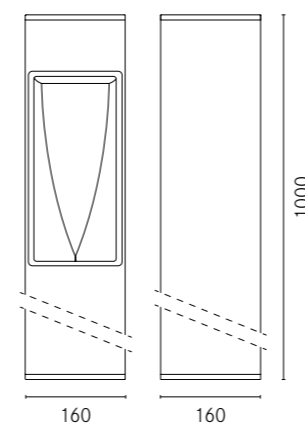
Max weight: 5.50kg
 Max exposed surface: 0.076m²
 Lateral exposed surface: 0.076m²

Fin 500	
06FI	
Emission	
DOWN	UP
2	3
Led (source flux):	
Ref. @500mA @4000K	Ref. @500mA @3000K
1805lm 14W	1690lm 14W
A9	A9
mA	
500	
4	
K	
4000	3000
0	9
Optics	
AS-D	
9	
Colors	
RAL9006	Sablé100
A	C

Esempio Example Beispiel

06FI	2	A9	4	0	9	C
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Fin bollard 1000



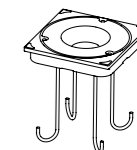
Max weight: 10kg
 Max exposed surface: 0.156m²
 Lateral exposed surface: 0.156m²

Fin 1000	
06FI	
Emission	
DOWN	UP&DOWN
4	5
Led (source flux) Ref. @500mA @4000K	
1805lm 14W	2x1805lm 2x14W
A9	B8
Led (source flux) Ref. @500mA @3000K	
1690lm 14W	2x1690lm 2x14W
A9	B8
mA	
500	
4	
K	
4000	3000
0	9
Optics	
AS-D	
9	
Colors	
RAL9006	Sablé100
A	C

Accessori Accessories Zubehör

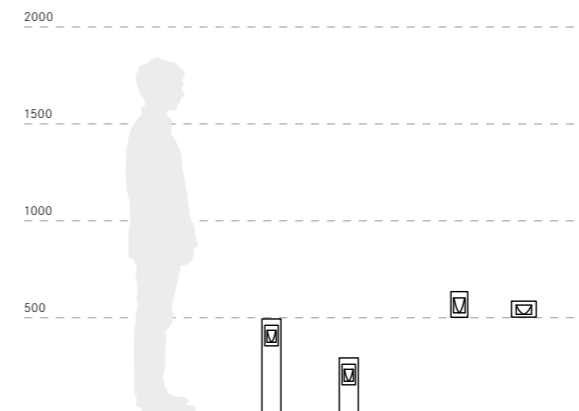
06PT998A0 - RAL9006 / 06PT998C0 - Sablé100

- Kit tirafondi
- Kit metal anchors
- Kit metallanker



Fin XS

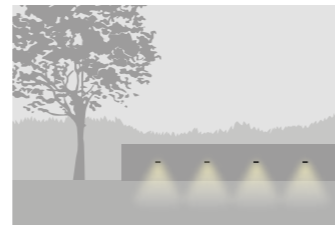
Cariboni





220-240V 50-60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: incasso parete, terra
Installation: wall recessed, ground
Installation: Wandinbauleuchte, Boden

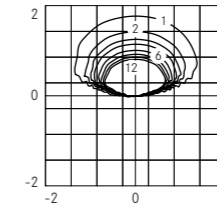


300-600lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

AS-D DOWN



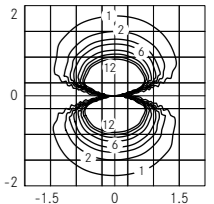
Bollard 300 Asymmetrical wide beam



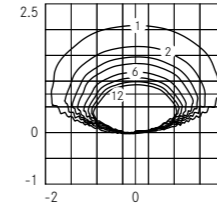
AS-D DOWN & DOWN



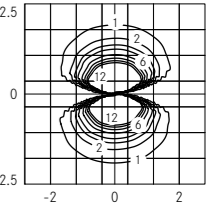
Bollard 300 Asymmetrical wide beam



Bollard 500 Asymmetrical wide beam



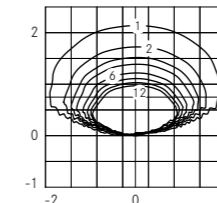
Bollard 500 Asymmetrical wide beam



AS-D



Wall recessed (H= 0.5m) Asymmetrical wide beam



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Illuminazione indiretta
Indirect Lighting
Indirekte Beleuchtung

Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

Precablaggio
Pre-wiring
Vorverkabelung

Separabilità delle componenti
Separable components
Trennbare Komponenten

Fin XS



Benessere visivo e schermatura della sorgente

Le geometrie del sistema ottico Fin consentono di eliminare completamente l'abbagliamento grazie ad una completa schermatura delle sorgenti.

Visual comfort and Hidden Light Emitting Surfaces

The shape of the Fin optical system allows for the complete elimination of dazzling thanks to the complete screening of the light emitting surfaces.

Sehwohlbefinden und Abschirmung der Lichtquelle

Die Geometrien des Fin-Optiksystems ermöglichen die vollständige Beseitigung der Blendung dank einer kompletten Abschirmung der Lichtquellen.



Ottica Front & Back

Le distribuzioni luminose della linea Fin sono ideali per un'illuminazione discreta e accogliente di percorsi pedonali, passaggi, scale, aree verdi e giardini. I bollard della linea Fin sono disponibili con uno o con due moduli ottici contrapposti. Le versioni con emissione singola possono emettere flusso luminoso verso l'alto (UP) o verso il basso (DOWN). Le versioni con emissione doppia possono emettere flusso luminoso verso il basso da entrambi i lati (DOWN&DOWN) oppure un lato verso il basso e l'altro verso l'alto (UP&DOWN).

Front & Back optic

The light distribution offered by the Fin line is ideal for the discrete and welcoming illumination of walkways, passageways, stairways, green areas and gardens. The bollards in the Fin line are available with one or two opposing optical modules. The versions with single beam emission can project light either upwards (UP) or downwards (DOWN). The versions with double beam emission can either project light downwards on both sides (DOWN&DOWN), or down on one side and up on the other (UP&DOWN).

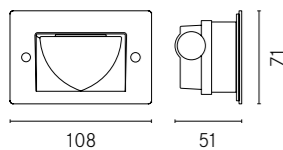
Front & Back Optik

Die Lichtverteilung der Fin-Produktreihe ist ideal für eine diskrete und behagliche Beleuchtung von Fußwegen, Passagen, Treppen, Grünflächen und Gärten. Die Pollerleuchten der Fin-Produktreihe sind mit einem oder zwei gegenüberliegenden Optikmodulen erhältlich. Die Versionen mit Einzelausstrahlung können den Lichtstrom nach oben (UP) oder nach unten (DOWN) ausstrahlen. Die Versionen mit Doppelausstrahlung können den Lichtstrom auf beiden Seiten nach unten (DOWN&DOWN) oder auf einer Seite nach unten und auf der anderen Seite nach oben (UP&DOWN) ausstrahlen.

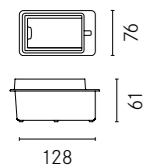




Fin XS wall recessed horizontal



Max weight: 0.30kg



Fin XS hor
06FX1

Led (source flux)
300lm 4W
B23

K
4000 3000
0 9

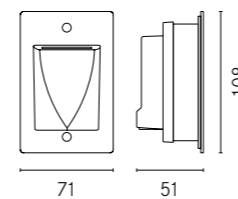
Optics
AS-D
7

Colors
RAL9006 Sablé100 RAL9003
A C D

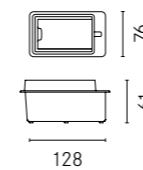
Esempio Example Beispiel

06FX1	B23	3	0	7	C
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Fin XS wall recessed vertical



Max weight: 0.30kg



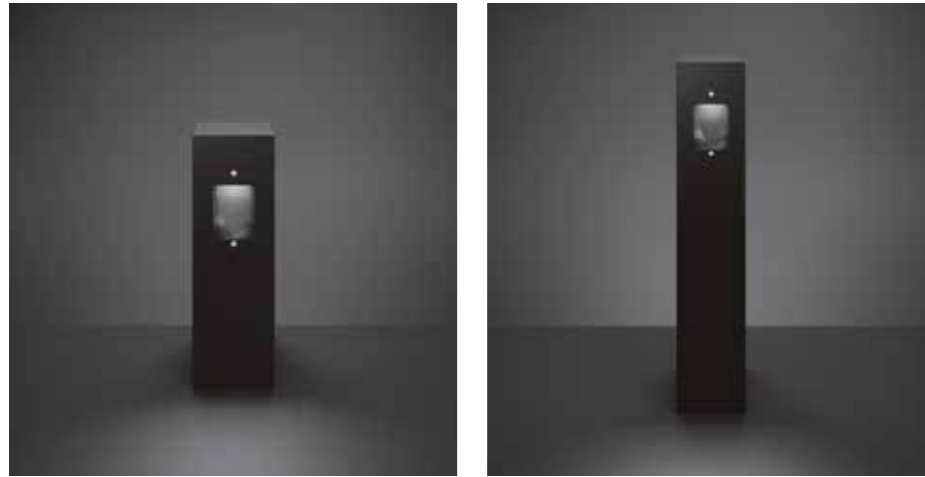
Fin XS vert
06FX2

Led (source flux)
300lm 4W
B23

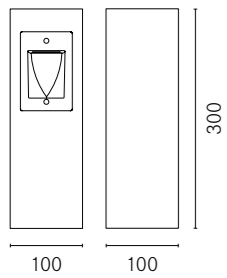
K
4000 3000
0 9

Optics
AS-D
7

Colors
RAL9006 Sablé100 RAL9003
A C D



Fin XS bollard 300



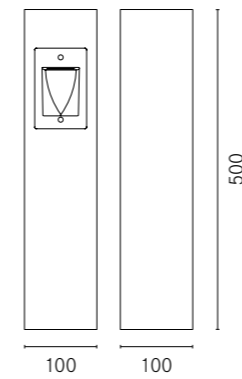
Max weight: 1.53kg
 Max exposed surface: 0.025m²
 Lateral exposed surface: 0.025m²

Fin XS 300			
06FX			
Emission			
DOWN	UP	DOWN&DOWN	UP&DOWN
3	4	5	6
Led (source flux)			
300lm 4W	2x300lm 2x4W		
B23	B23		
K			
4000	3000		
0	9		
Optics			
AS-D			
7			
Colors			
RAL9006	Sablé100		
A	C		

Esempio *Example* Beispiel

06FX	3	B23	0	7	A
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Fin XS bollard 500



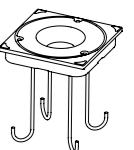
Max weight: 2.52kg
 Max exposed surface: 0.04m²
 Lateral exposed surface: 0.04m²

Fin XS 500	
06FX	
Emission	
DOWN	DOWN&DOWN
7	8
Led (source flux)	
300lm 4W	2x300lm 2x4W
B23	B23
K	
4000	3000
0	9
Optics	
AS-D	
7	
Colors	
RAL9006	Sablé100
A	C

Accessori *Accessories* Zubehör

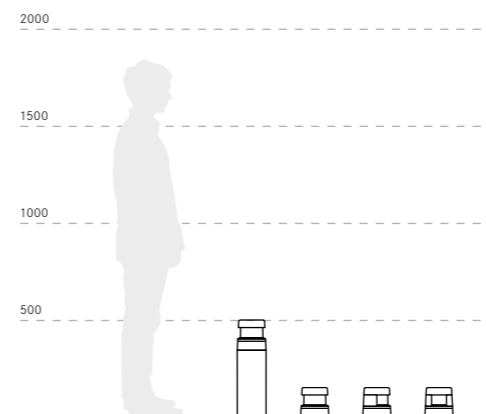
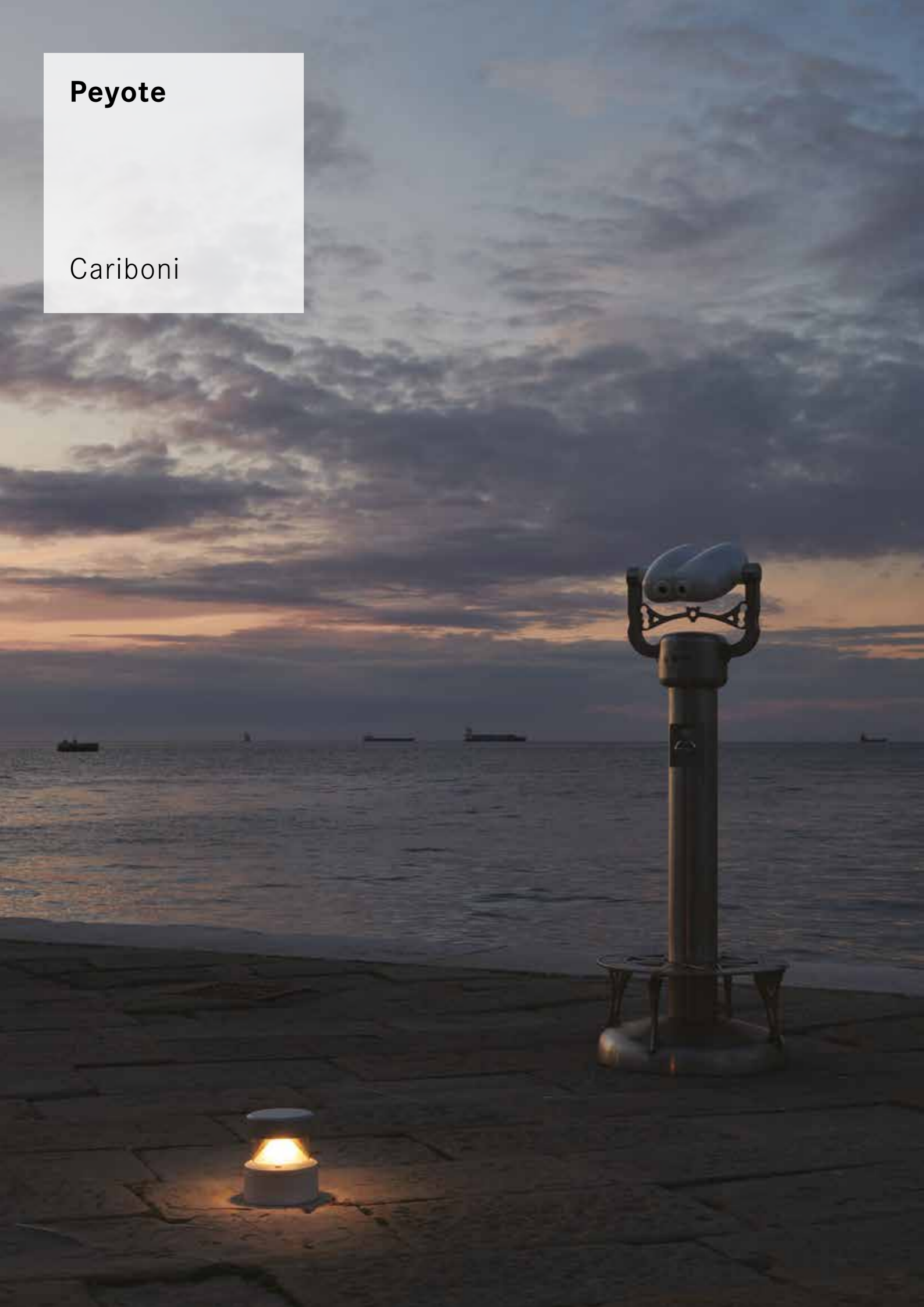
06PT998A0 - RAL9006 / 06PT998C0 - Sablè100

- Kit tirafondi
- Kit metal anchors
- Kit metallanker



Peyote

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK07	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

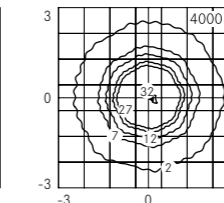
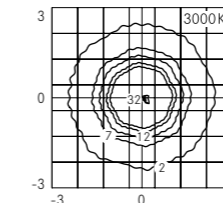


1300-1650lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

360°



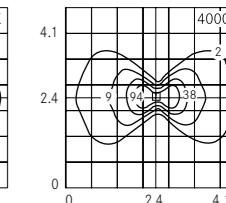
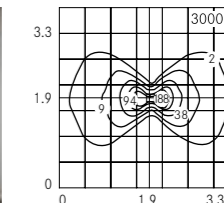
Grazer



2x90°



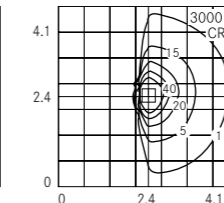
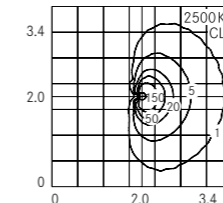
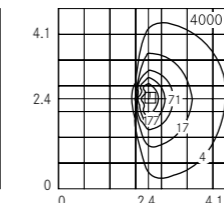
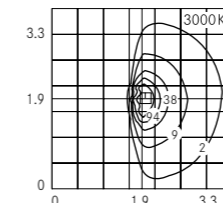
Grazer



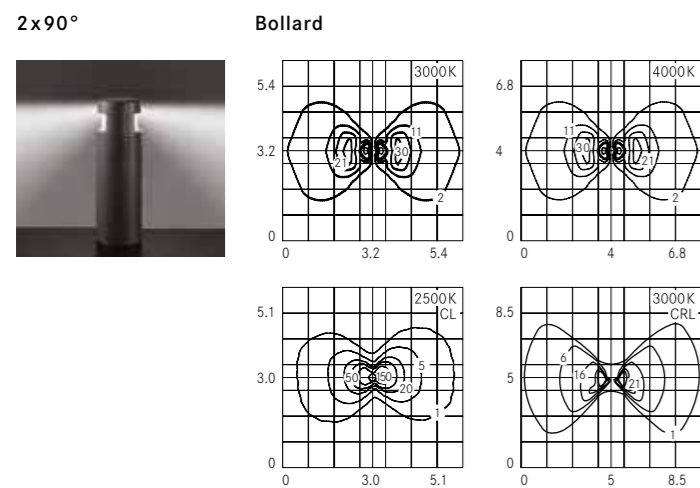
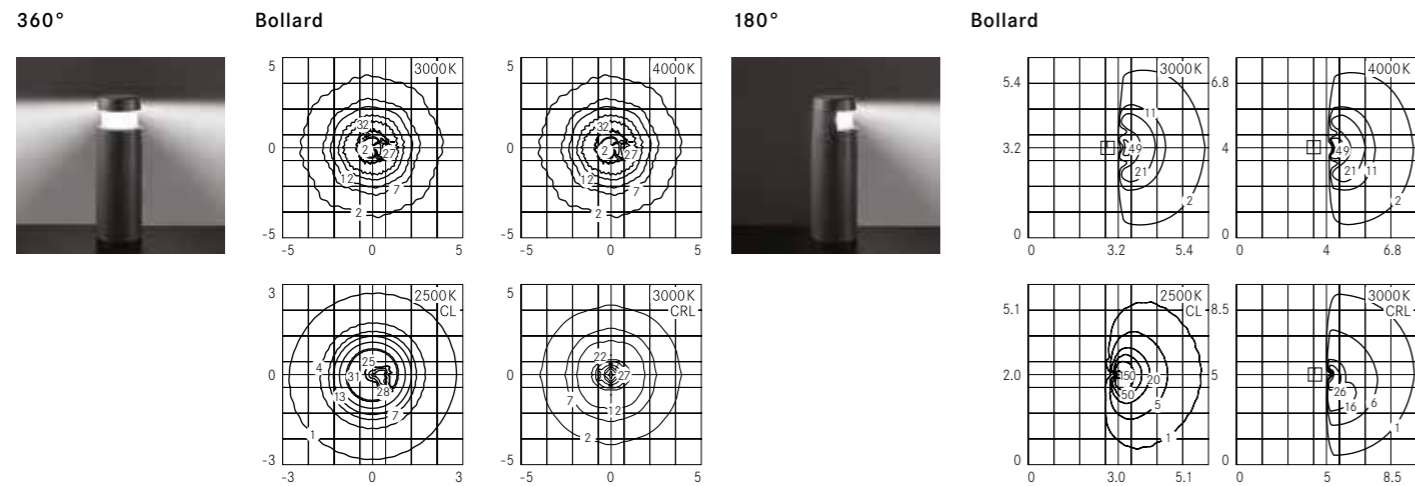
180°









Grazer



Installazione: terra
Installation: ground
Installation: Boden



-  Illuminazione LED indiretta
LED Indirect Lighting
LED Indirekte Beleuchtung
-  Separabilità delle componenti
Separable components
Trennbare Komponenten
-  Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische
-  Sistema acqua stop
Water stop system
Wasserstopp-System
-  Precablaggio
Pre-wiring
Vorverkabelung
-  Assenza di viti a vista
No visible screws
Fehlen sichtbarer Schrauben



Emissione luminosa radiale senza ombre
Peyote è disponibile con tre diversi sistemi ottici e aperture del fascio: 360°, 180° e 2x90°. La versione 360°, essendo completamente libera da sostegni, garantisce un'emissione luminosa senza ombre. L'emissione continua è permessa da un riflettore in alluminio posto al centro del prodotto e da uno schermo cilindrico in policarbonato.

Radial Shadow-free Light Emission
Peyote is available with three different optical systems and beam widths: 360°, 180° and 2x90°. As it is completely free of supports, the 360° version guarantees shadow-free distribution of light. Uninterrupted emission is possible thanks to an aluminium reflector placed at the centre of the product, and a cylindrical polycarbonate screen.

Radiale Lichtausstrahlung ohne Schatten
Peyote ist mit drei verschiedenen Optiksystemen und Lichtbündelöffnungen erhältlich: 360°, 180° und 2x90°. Die 360°-Version gewährleistet eine Lichtausstrahlung ohne Schatten, da sie komplett frei von Trägern ist. Die kontinuierliche Ausstrahlung wird durch einen Reflektor aus Aluminium in der Mitte des Produkts und durch einen zylindrischen Schirm aus Polycarbonat ermöglicht.

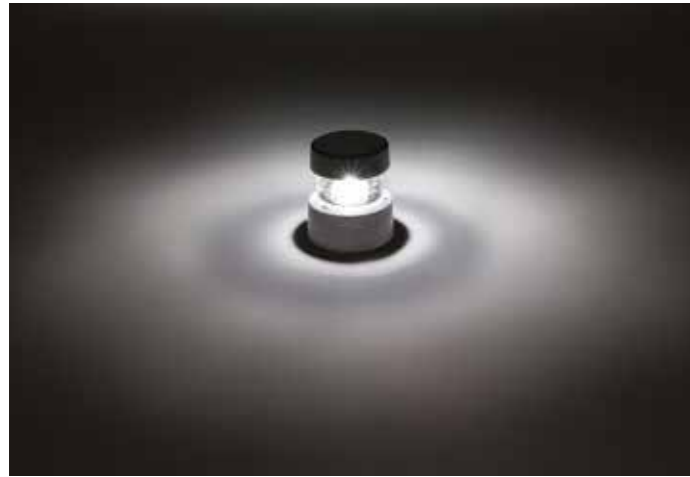


Benessere visivo e schermatura della sorgente
I prodotti della linea Peyote si compongono di un sistema ottico a luce indiretta che garantisce un ottimo comfort visivo e una distribuzione uniforme della luce. L'assenza di abbagliamento è garantita dalla completa schermatura delle sorgenti, nascoste nella parte superiore del prodotto, e dalla finitura del riflettore centrale.

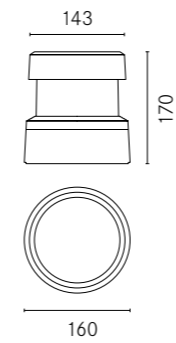
Visual comfort and Hidden Light Emitting Surfaces
The products in the Peyote line have an optical system for indirect light which guarantees excellent visual comfort and an even distribution of light. The elimination of dazzling is guaranteed by the complete screening of the light emitting surfaces, which are hidden in the upper part of the product, and by the finish of the central reflector.

Sehwohlbefinden und Abschirmung der Lichtquelle
Die Produkte der Peyote-Produktreihe bestehen aus einem Optiksistem mit indirektem Licht, das hervorragenden Sehkomfort und gleichmäßige Lichtverteilung gewährleistet. Die Vermeidung der Blendung wird durch die komplette Abschirmung der Lichtquellen, die im oberen Teil des Produkts versteckt sind, und durch das Finish des zentralen Reflektors gewährleistet.

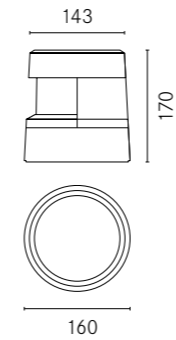




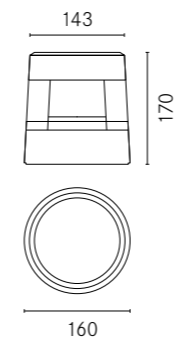
Peyote grazer 360°



Peyote grazer 180°



Peyote grazer 2x90°



Max weight: 3kg
 Max exposed surface: 0.24m²
 Lateral exposed surface: 0.05m²

Peyote grazer
06PY

Emission

360°	180°	2x90°
1	2	3

Led (source flux):
 Ref. @500mA @4000K Ref. @500mA @3000K

1390lm 12W	1300lm 12W
A8	A8

mA

500
4

K

4000	3000
0	9

Colors

RAL9006	Sablé100
5A	5C

Esempio *Example* Beispiel

06PY	1	A8	4	0	5A
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Peyote grazer
06PY

Emission

360°	180°	2x90°
1	2	3

FB (source flux) MT

1650lm	1615lm
A	C

Source

FB 23W	MT 20W
A	I

Optics

360°	180°	2x90°
E	B	O

Colors

RAL9006	Sablé100
A	C

Esempio *Example* Beispiel

06PY	1	A	A	E	A
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Accessori *Accessories* Zubehör

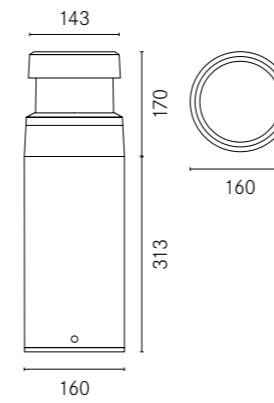
06PY998A0 - RAL9006 / 06PY998C0 - Sablé100

- Kit tirafondi
- Kit metal anchors*
- Kit metallanker

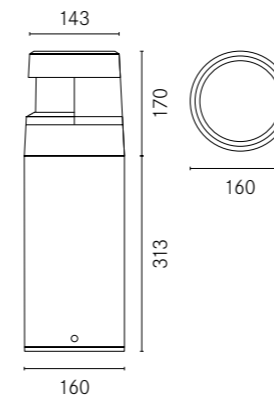




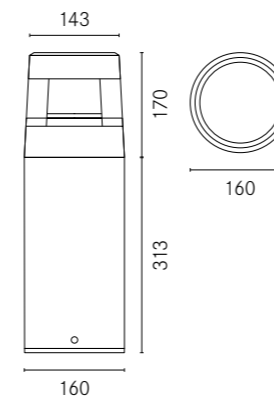
Peyote bollard 360°



Peyote bollard 180°



Peyote bollard 2x90°



Peyote bollard		
06PY		
Emission		
360°	180°	2x90°
4	5	6
Led (source flux):		
Ref. @500mA @4000K		Ref. @500mA @3000K
1390lm 12W	1300lm 12W	
A8	A8	
mA		
500		
4		
K		
4000	3000	
0	9	
Colors		
RAL9006	Sablé100	
5A	5C	

Esempio Example Beispiel

06PY	4	A8	4	0	A
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Peyote bollard		
06PY		
Emission		
360°	180°	2x90°
1	2	3
FB MT (source flux)		
1650lm	1615lm	
A	C	
Source		
FB 23W	MT 20W	
A	I	
Optics		
360°	180°	2x90°
E	B	O
Colors		
RAL9006	Sablé100	
AA	CA	

Esempio Example Beispiel

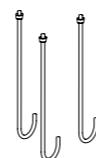
06PY	1	A	A	E	AA
-------------	----------	----------	----------	----------	-----------

Max weight: 3kg
 Max exposed surface: 0.24m²
 Lateral exposed surface: 0.05m²

Accessori Accessories Zubehör

06PY999X0

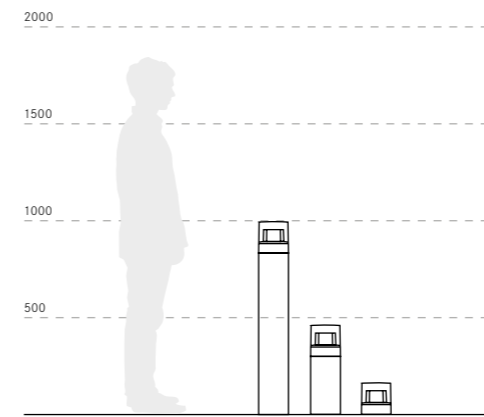
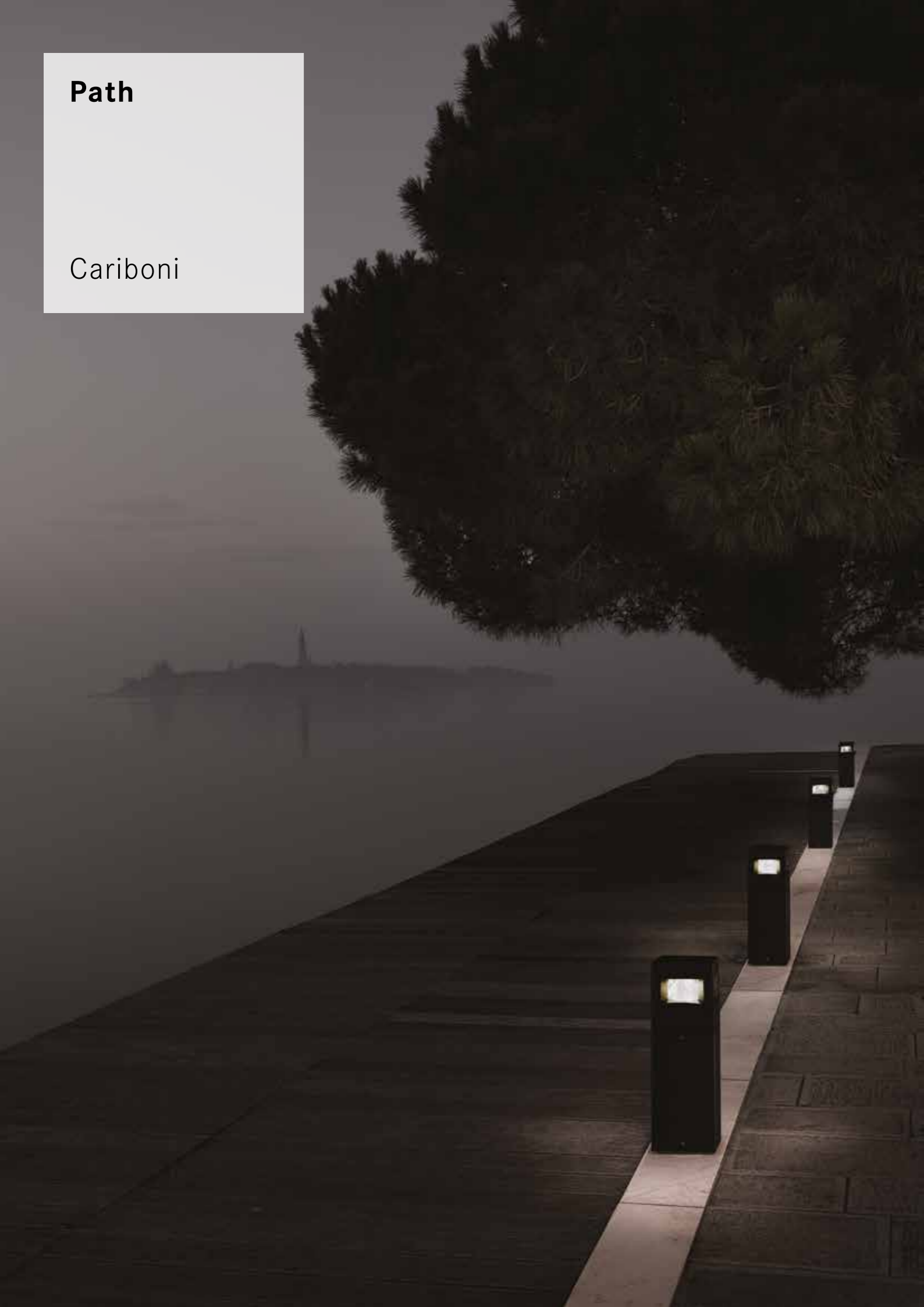
- Kit tirafondi
- Kit metal anchors
- Kit metallanker



Disponibile su richiesta versione H 1000mm On demand available H 1000mm version Auf Anfrage verfügbar Version H 1000mm

Path

Cariboni





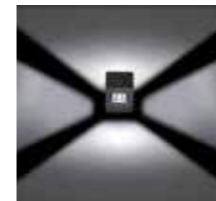
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK07	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: terra
Installation: ground
Installation: Boden

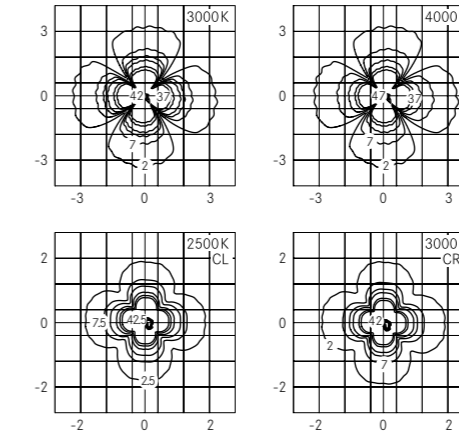


1300-1650lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

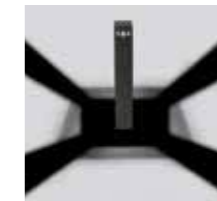
RS-D 360°



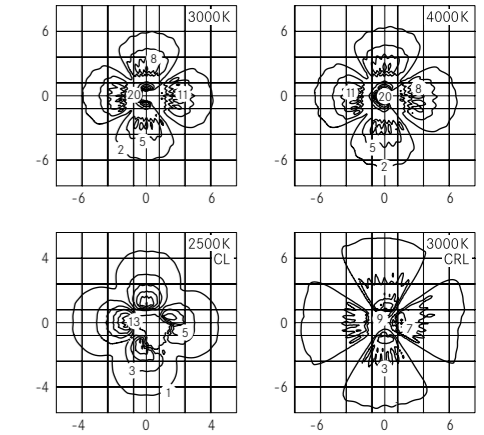
Grazer Rotosymmetrical wide beam



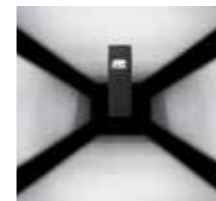
RS-D 360°



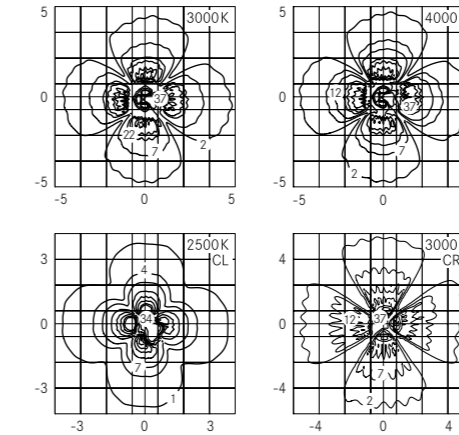
Bollard 1000 Rotosymmetrical wide beam



RS-D 360°



Bollard 500 Rotosymmetrical wide beam





illuminazione LED indiretta
LED Indirect Lighting
LED Indirekte Beleuchtung



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

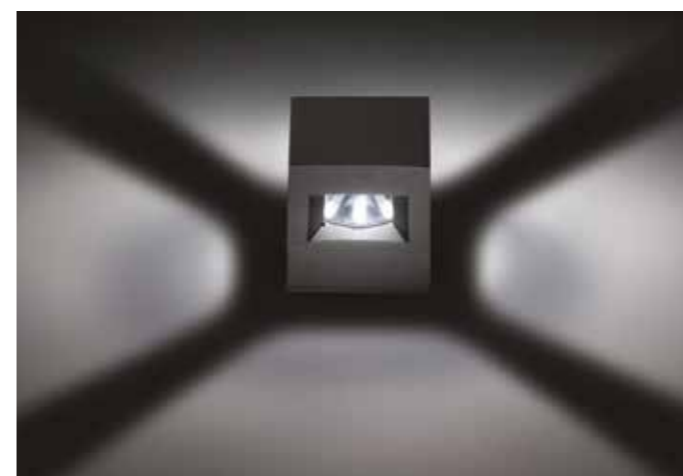


Precablaggio
Pre-wiring
Vorverkabelung

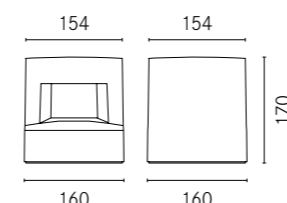


Separabilità delle componenti
Separable components
Trennbare Komponenten

230V 50Hz CL II IP65 IK07



Path grazer



Max weight: 3.5kg
Max exposed surface: 0.26m²
Lateral exposed surface: 0.26m²

Path grazer
06PT1

Led (source flux)
Ref. @500mA @4000K

1390lm 12W

A8

mA

500

4

K

4000

0

3000

9

Colors

RAL9006

5A

Sablé100

5C

Path grazer

06PT1

FB MT
(source flux)

1650lm

D

1615lm

C

Source

FB 23W

H

MT 20W

I

Colors

RAL9006

EA

Sablé100

EC

Emissione luminosa personalizzabile

Path è disponibile nelle configurazioni standard con quattro finestre di luce.

E' possibile applicare fino a tre petali di chiusura ottenendo così configurazioni con una, due o tre finestre di luce.

Customisable Light Emission

Path is available in standard configuration with four light windows. It is possible to apply up to three closure petals, thus obtaining configurations with one, two or three light windows.

Anpassbare Lichtausstrahlung

Path ist in den Standardkonfigurationen mit vier Lichtfenstern erhältlich. Es besteht die Möglichkeit, bis zu drei Schließblätter anzubringen und so verschiedene Konfigurationen mit einem, zwei oder drei Lichtfenstern zu erhalten.

Esempio Example Beispiel

06PT1	A8	4	0	5C
06PT1	D	H	EA	

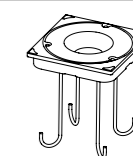
Accessori Accessories Zubehör

06PT998A0 - RAL9006 / 06PT998C0 - Sablé100

Kit tirafondi

Kit metal anchors

Kit metallanker

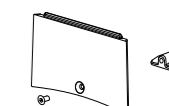


06PT997A0 - RAL9006 / 06PT997C0 - Sablé100

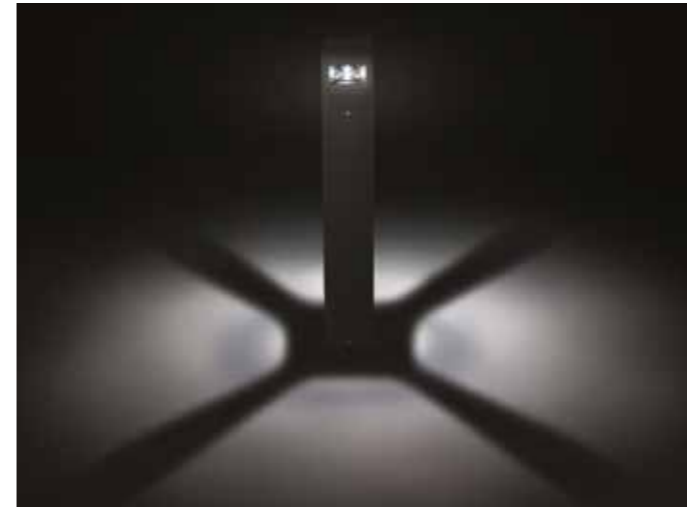
Kit 2 petali

Kit 2 petals

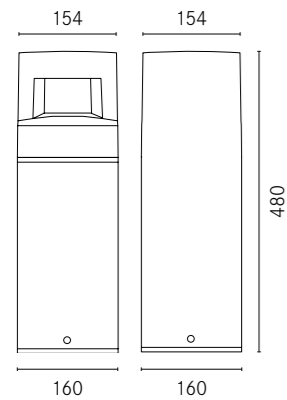
Kit 2 Petals



230V 50Hz CL II IP65 IK07



Path bollard 500



Path 500	
06PT2	
Led (source flux): Ref. @500mA @4000K	Ref. @500mA @3000K
1390lm 12W A8	1300lm 12W A8
mA	
500	4
K	
4000	3000
0	9
Colors	
RAL9006	Sablé100
5A	5C

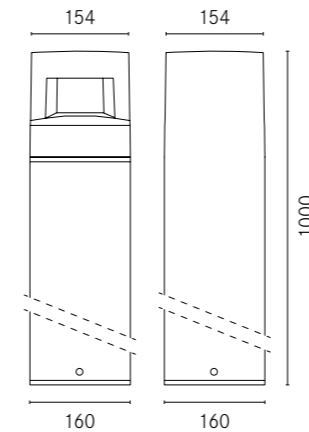
Path 500	
06PT2	
FB (source flux)	MT
1650lm D	1615lm C
Source	
FB 23W H	MT 20W I
Colors	
RAL9006 EA	Sablé100 EC

Max weight: 5kg
Max exposed surface: 0.33m²
Lateral exposed surface: 0.05m²

Esempio Example Beispiel

06PT2	A8	4	0	5A
06PT2	D	H	EA	

Path bollard 1000



Path 1000	
06PT3	
Led (source flux): Ref. @500mA @4000K	Ref. @500mA @3000K
1390lm 12W A8	1300lm 12W A8
mA	
500	4
K	
4000	3000
0	9
Colors	
RAL9006	Sablé100
5A	5C

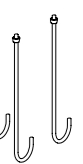
Path 1000	
06PT3	
FB (source flux)	MT
1650lm D	1615lm C
Source	
FB 23W H	MT 20W I
Colors	
RAL9006 EA	Sablé100 EC

Max weight: 5kg
Max exposed surface: 0.33m²
Lateral exposed surface: 0.05m²

Accessori Accessories Zubehör

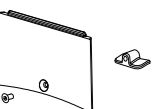
06PY999X0

Kit tirafondi
Kit metal anchors
Kit metallanker



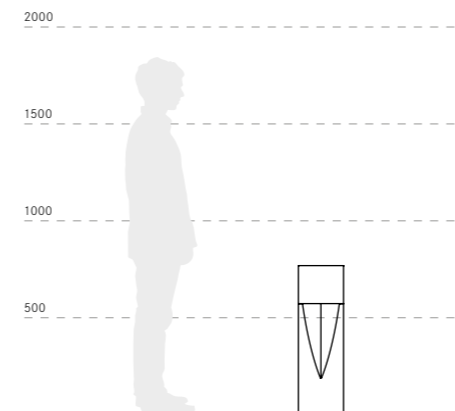
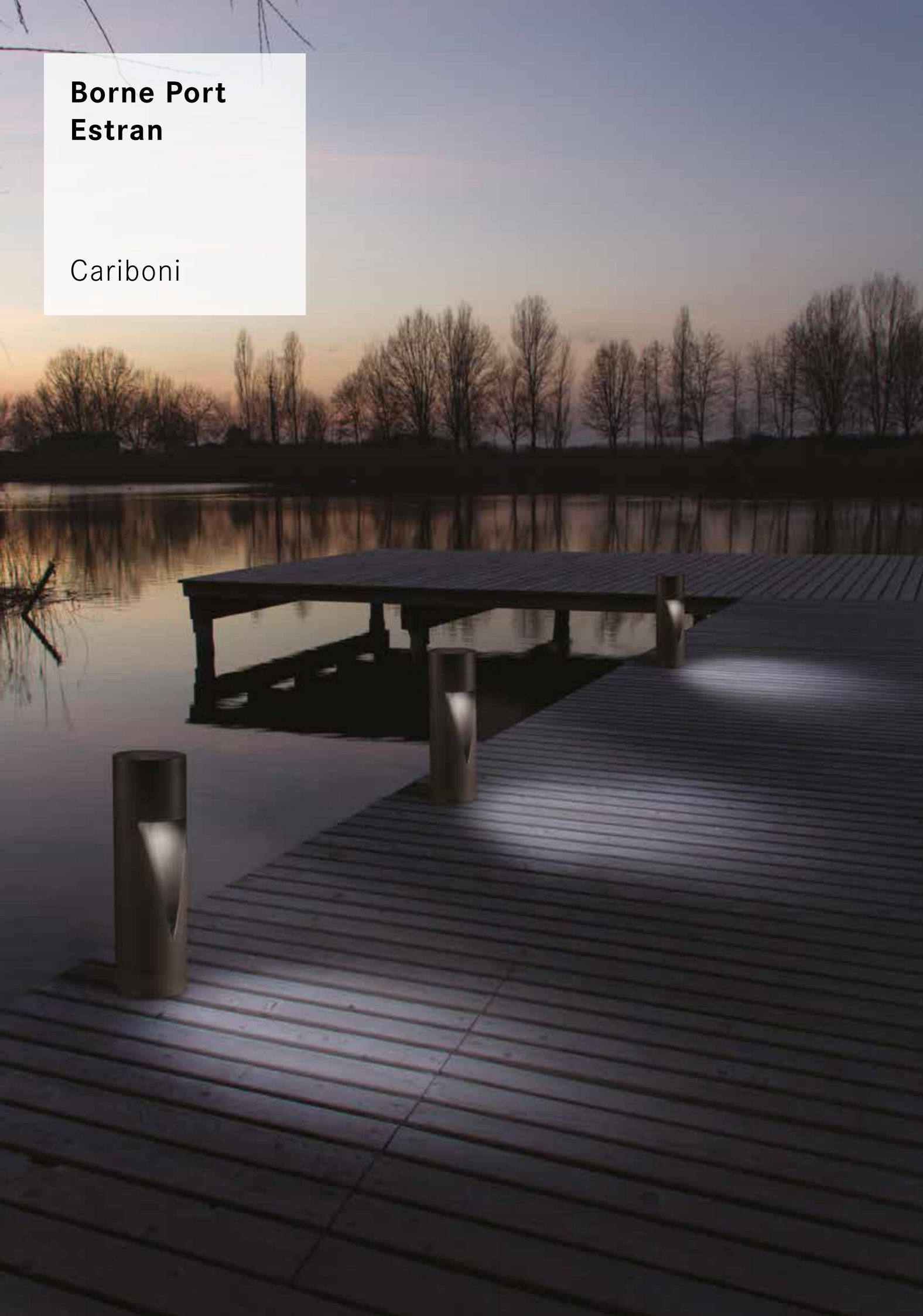
06PT997A0 - RAL9006 / 06PT997C0 - Sablé100

Kit 2 petali
Kit 2 petals
Kit 2 Petals



Borne Port Estran

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +45° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung



7000lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K RED	Temperatura colore <i>Colour temperature</i> Farbtemperatur

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Illuminazione LED indiretta
LED Indirect Lighting
LED Indirekte Beleuchtung

Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

Installazione: terra
Installation: ground
Installation: Boden



Ottica Front & Back

Borne Port Estran è un bollard ad alto comfort visivo con una doppia emissione luminosa: da un lato una distribuzione asimmetrica diffondente a luce bianca per l'illuminazione di piazze, aree verdi, moli portuali, percorsi pedonali e vialetti, dall'altro una distribuzione asimmetrica più stretta a luce colorata (rossa, blu o verde) per un'illuminazione di segnalazione o d'identità.

Front & Back optics

Borne Port Estran is a bollard offering high visual comfort with dual light emission: on one side an asymmetrical white light distribution system for the illumination of squares, green areas, quays, walkways and lanes, and on the other a narrower asymmetrical coloured light distribution system (in red, blue or green) for signage or location identity.

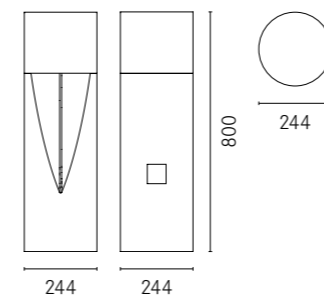
Front & Back Optik

Borne Port Estran ist eine Pollerleuchte mit hohem Sehkombfort und mit einer doppelten Lichtausstrahlung: Zum einen eine breitstrahlende asymmetrische Verteilung mit weißem Licht für die Beleuchtung von Plätzen, Grünflächen, Hafenmolen, Fußwegen und schmalen Wegen, zum anderen eine schmalere asymmetrische Verteilung mit farbigem Licht (rot, blau oder grün) für eine Signalisierungs- oder Markenidentitätsbeleuchtung.



230V 50Hz CL I IP65 IK08

Borne Port Estran bollard

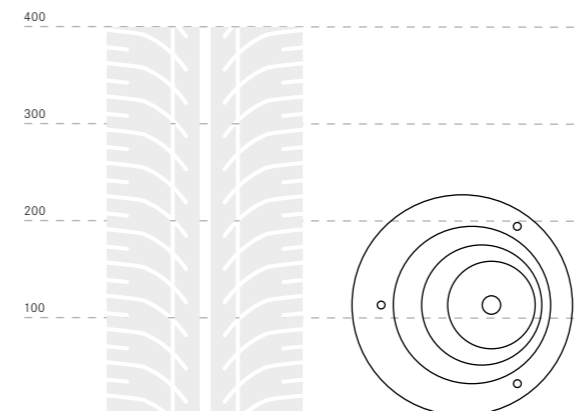


Code	Source	mA	W	flux 1	K	Color
06LL721AM7	MT	MT-PWB	35W	7000lm	3000K	Sablé100
	1 LED	500	1 x 1 W	175lm	RED	Sablé100

Max weight: 29 kg
Max exposed surface: 0.18m²
Lateral exposed surface: 0.18m²

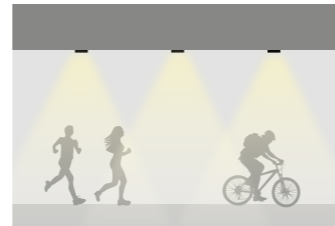
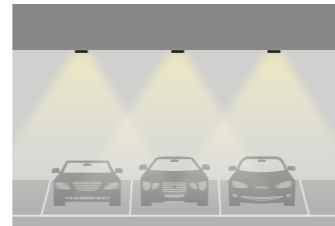
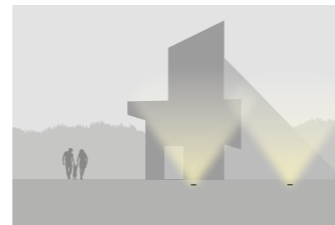
Kore

Cariboni





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II CL III with remote driver	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09 (U-D 90°) IK10	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sandblasted stainless steel AISI 316	Colori <i>Colours</i> Farben
Remote to be ordered separately	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI ON-OFF	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



1675-2670lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥90	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

W-W



Drive over recessed Wall washer

15W β=40°			25W β=40°		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	4.2	36	5	4.2	55
4	3.3	56	4	3.3	86
3	2.5	99	3	2.5	152
2	1.5	223	2	1.5	343
1	0.8	892	1	0.8	1372

W-W



Ceiling recessed Wall washer

15W β=40°			25W β=40°		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.8	892	1	0.8	1372
2	1.5	223	2	1.5	343
3	2.5	99	3	2.5	152
4	3.3	56	4	3.3	86
5	4.2	36	5	4.2	55

U-D 90°



Drive over recessed Ultra-wide beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	10.5	7	5	10.5	11
4	8.4	12	4	8.4	18
3	6.2	21	3	6.2	32
2	4.2	46	2	4.2	71
1	2	185	1	2	285

U-D 90°



Ceiling recessed Ultra-wide beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	2	185	1	2	285
2	4.2	46	2	4.2	71
3	6.2	21	3	6.2	32
4	8.4	12	4	8.4	18
5	10.5	7	5	10.5	11

D 45°



Drive over recessed Wide beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	3.8	51	5	3.8	78
4	3	80	4	3	123
3	2.2	142	3	2.2	219
2	1.5	320	2	1.5	492
1	0.7	1281	1	0.7	197

D 45°

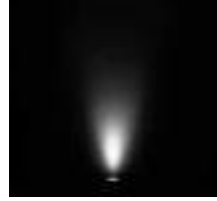


Ceiling recessed Wide beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.7	1281	1	0.7	197
2	1.5	320	2	1.5	492
3	2.2	142	3	2.2	219
4	3	80	4	3	123
5	3.8	51	5	3.8	78

Installazione: terra (carrabile), pavimento flottante, controsoffitto
Installation: ground (drive over), floating floor, false ceiling
Installation: Boden (Befahrbar), Schwimmender Boden, Zwischendecke

M 25°



Drive over recessed Medium beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	2	208	5	2	320
4	1.6	325	4	1.6	500
3	1.2	578	3	1.2	889
2	0.8	1301	2	0.8	2002
1	0.4	5202	1	0.4	8005

M 25°



Ceiling recessed Medium beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.4	5202	1	0.4	8005
2	0.8	1301	2	0.8	2002
3	1.2	578	3	1.2	889
4	1.6	325	4	1.6	500
5	2	208	5	2	320

C 12°



Drive over recessed Narrow beam

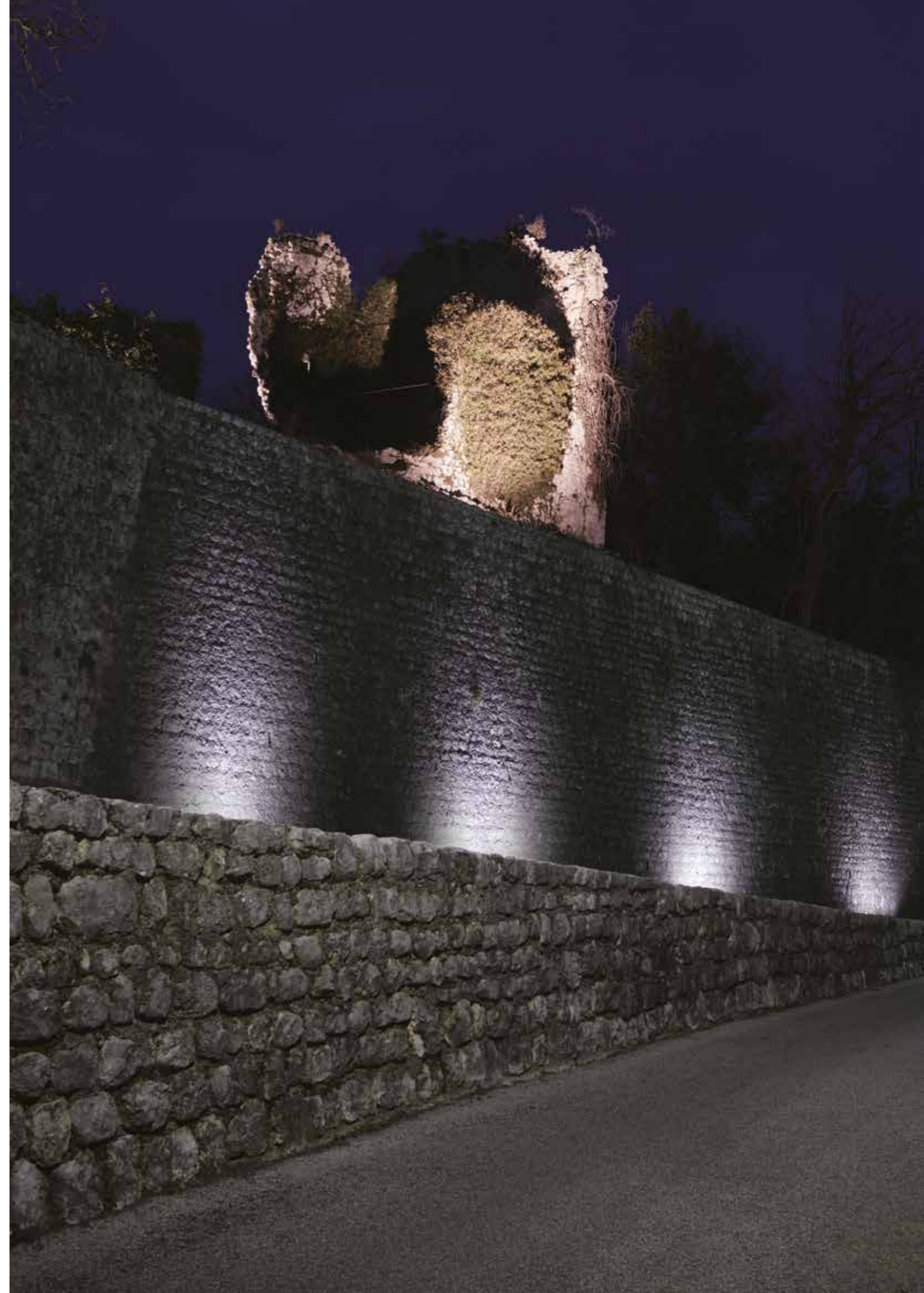
15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.8	859	5	0.8	1322
4	0.6	1342	4	0.6	2065
3	0.5	2386	3	0.5	3672
2	0.3	5368	2	0.3	8261
1	0.15	21472	1	0.15	33043














C 12°

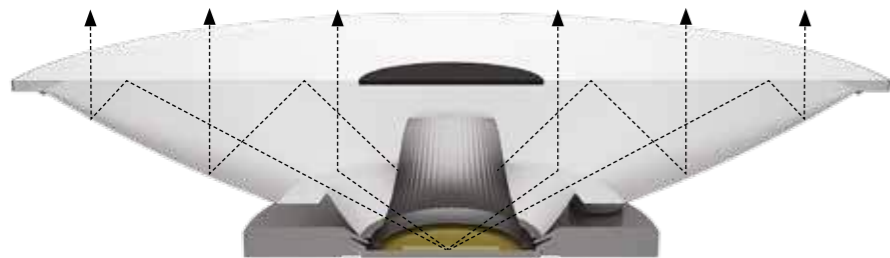


Ceiling recessed Narrow beam

15W			25W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.15	21472	1	0.15	33043
2	0.3	5368	2	0.3	8261
3	0.5	2386	3	0.5	3672
4	0.6	1342	4	0.6	2065
5	0.8	859	5	0.8	1322



-  Schermatura sorgenti
Hidden Light Emitting Surfaces
 Abschirmung der Lichtquellen
-  Ta -30°C +50°C
 Ta -30°C +50°C
 Ta -30°C +50°C
-  Elevata resistenza agli urti (IK09-IK10)
Maximum impact resistance (IK09-IK10)
 Maximum Stoßfestigkeitsgrad (IK09-IK10)
-  Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
 Widerstand chemische/atmosphärische
-  Prodotto orientabile
Orientable product
 Ausrichtbares Produkt
-  Precablaggio
Pre-wiring
 Vorverkabelung
-  Sostituibilità gruppo alimentazione
Power supply unit substitutability
 Ersetzbarkeit der Versorgungseinheit
-  Separabilità delle componenti
Separable components
 Trennbare Komponenten
-  CRI≥90 SMCD=3
 CRI≥90 SMCD=3
 CRI≥90 SMCD=3
-  Flicker free
Flicker free
 Flicker free
-  Sistema acqua stop
Water stop system
 Wasserstopp-System
-  Carrabile
Drive Over
 Befahrbare
-  Dimensioni incasso ridotte
Reduced recessed dimensions
 Reduzierte Einbaumaße



Benessere visivo e schermatura della sorgente

Il sistema ottico è composto da una lente e una "pupilla nera". La lente catadiottrica a doppia riflessione interna (D-TIR) permette un accurato controllo del fascio di proiezione e un design sottile. La pupilla nasconde la sorgente alla vista dell'osservatore: durante la notte, quando la luce è accesa, la pupilla evita l'abbagliamento; durante il giorno, quando la luce è spenta, la pupilla scherma la LES (Light-Emitting Surface) del COB.

Visual comfort and Hidden Light Emitting Surfaces

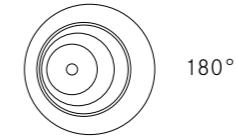
The optical system consists of a lens and a "black pupil". The catadioptric lens with double internal reflection (D-TIR) allows for precise control of the light beam and a slim design. The pupil hides the light surface from the observer's sight. During the night, when the light is on, the pupil avoids dazzling; during the day, when the light is off, the pupil screens the COB's LES (Light-Emitting surface).

Sehwohlbefinden und Abschirmung der Lichtquelle

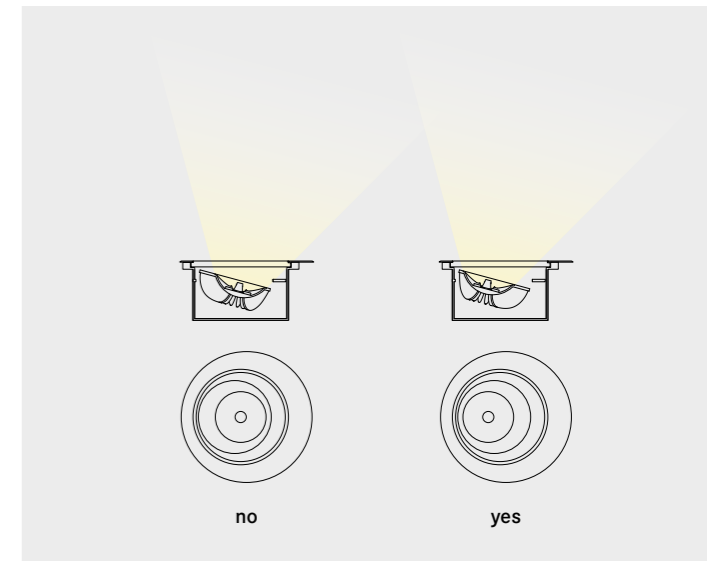
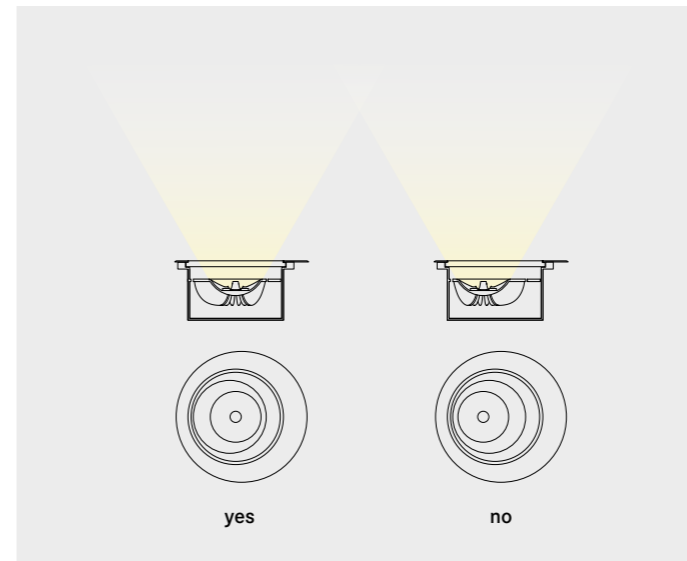
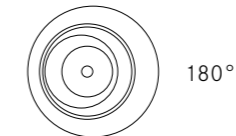
Das Optiksistem besteht aus einer Linse und einer "schwarzen Pupille". Die katadioptrische Linse mit doppelter interner Reflexion (D-TIR) ermöglicht eine genaue Kontrolle des Projektionslichtbündels und ein schmales Design. Die Pupille versteckt die Lichtquelle vor dem Auge des Betrachters: wenn das Licht während der Nacht eingeschaltet ist, verhindert die Pupille die Blendung; wenn das Licht während des Tages ausgeschaltet ist, schirmt die Pupille das LES (Lichtaustrittsfläche) vom COB (chip on board) ab.



Rotazione Eccentrica 0° - 180°
Rotation Eccentric 0° - 180°
 Drehung Exzenter 0° - 180°



Rotazione Concentrica 0° - 180°
Rotation Concentric 0° - 180°
 Drehung Konzentrisch 0° - 180°



Sistema ottico orientabile
 Inclinazione: 0°/-5°/-10°/-15°. Rotazione: +359°. L'intero gruppo ottico può essere posizionato concentrico al prodotto (per inclinazione 0°) o ruotato di 180° per posizionarsi eccentrico al prodotto (per inclinazione -5°/-10°/-15°).

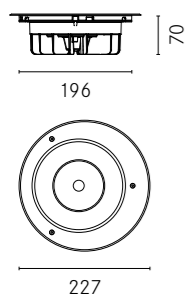
Orientable Optical System
 Tilt: 0°/-5°/-10°/-15°. Rotation: +359°. The entire optical unit can be positioned concentrically in relation to the product (tilt 0°) or rotated through 180° to be positioned eccentrically (tilts -5°/-10°/-15°).

Ausrichtbares Optiksistem
 Neigung: 0°/-5°/-10°/-15°. Drehung: +359°. Die gesamte Optikeinheit kann konzentrisch zum Produkt positioniert (für Neigung 0°) oder um 180° gedreht werden, um sich exzentrisch zum Produkt zu positionieren (für Neigung -5°/-10°/-15°).





Kore drive over recessed
fixed optics



Max weight: 1.8kg

Kore 06KR2				
Led (source flux) Ref. @4000K				
1750lm 15W	2670lm 25W			
A1	A1			
Led (source flux) Ref. @3000K				
1675lm 15W	2565lm 25W			
A1	A1			
mA				
700*	450**	*With 06KR906X0 and 06KR907X0		
0	6	**With 06KR904X0 and 06KR905X0		
K				
4000	3000			
0	9			
Optics				
C 12°	M 25°	D 45°	W-W	U-D 90°
A8	A9	B0	B1	B2
Colors				
Sandblasted stainless steel AISI 316				
XS				

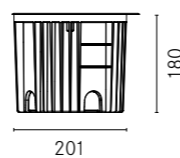
Esempio *Example* Beispiel

06KR1	A1	1	0	A8	XS
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Accessori Accessories Zubehör

06KR901B0

Controcassa carrabile
Drive over recessed housing
Befahrbare Einbaugehäuse

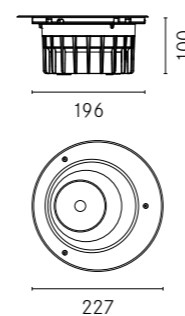


06KS918C0 / 06KS909C0

Connettore 2 vie - Connettore 4 vie
2-way connector - 4-way connector
2-Wege-Stecker - 4-Wege-Stecker



Kore drive over recessed
orientable optics



Max weight: 1.8kg

Kore 06KR1				
Led (source flux):				
Ref. @4000K		Ref. @3000K		
1750lm 15W	1675lm 15W			
A1	A1			
mA				
450*	*With 06KR904X0 and 06KR905X0			
6				
K				
4000	3000			
0	9			
Optics				
C 12°	M 25°	D 45°	W-W	U-D 90°
A8	A9	B0	B1	B2
Colors				
Sandblasted stainless steel AISI 316				
XS				

Accessori Accessories Zubehör

06KR904X0

Driver elettronico 20W-240V IP67
Electronic driver 20W-240V IP67
Elektronischer Driver 20W-240V IP67

06KR905X0

Driver elettronico 20W-240V DALI IP67
Electronic driver 20W-240V DALI IP67
Elektronischer Driver 20W-240V DALI IP67

06KR906X0

Driver elettronico 30W-240V IP67
Electronic driver 30W-240V IP67
Elektronischer Driver 30W-240V IP67

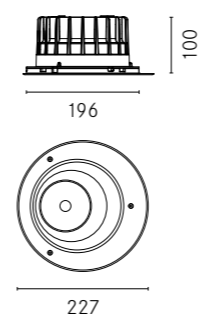
06KR907X0

Driver elettronico 30W-240V DALI IP67
Electronic driver 30W-240V DALI IP67
Elektronischer Driver 30W-240V DALI IP67

220 240V	50 60Hz	CL II	IP67	IK10
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Kore ceiling recessed
orientable optics



Max weight: 1.8kg

Kore 06KR1	
Led (source flux): Ref. @4000K Ref. @3000K	
1750lm 15W A1	1675lm 15W A1

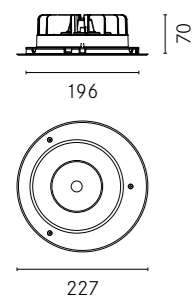
mA
450* *With 06KR904X0 and 06KR905X0
6

K	
4000 0	3000 9

Optics				
C 12° A8	M 25° A9	D 45° B0	W-W B1	U-D 90° B2

Colors Sandblasted stainless steel AISI 316 XS	
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Kore ceiling recessed
fixed optics



Max weight: 1.8kg

Kore 06KR2	
Led (source flux) Ref. @4000K	
1750lm 15W A1	2670lm 25W A1

Led (source flux) Ref. @3000K	
1675lm 15W A1	2565lm 25W A1

mA
700* 450** *With 06KR906X0 and 06KR907X0
0 **6** **With 06KR904X0 and 06KR905X0

K	
4000 0	3000 9

Optics				
C 12° A8	M 25° A9	D 45° B0	W-W B1	U-D 90° B2

Colors Sandblasted stainless steel AISI 316 XS	
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Esempio Example Beispiel

06KR1	A1	1	0	A8	XS
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Accessori Accessories Zubehör

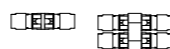
06KR903XX0

Molle
Springs
Federn



06KS918C0 / 06KS909C0

Connettore 2 vie - Connettore 4 vie
2-way connector - 4-way connector
2-Wege-Stecker - 4-Wege-Stecker



Accessori Accessories Zubehör

06KR904X0

Driver elettronico 20W-240V IP67
Electronic driver 20W-240V IP67
Elektronischer Driver 20W-240V IP67

06KR905X0

Driver elettronico 20W-240V DALI IP67
Electronic driver 20W-240V DALI IP67
Elektronischer Driver 20W-240V DALI IP67

06KR906X0

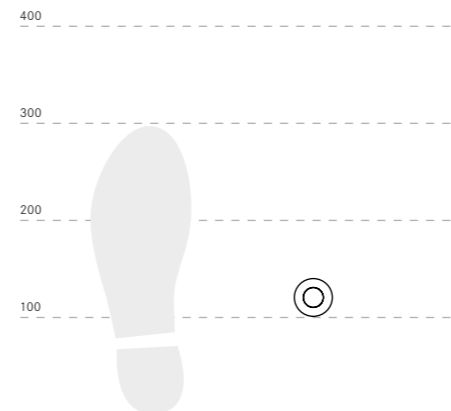
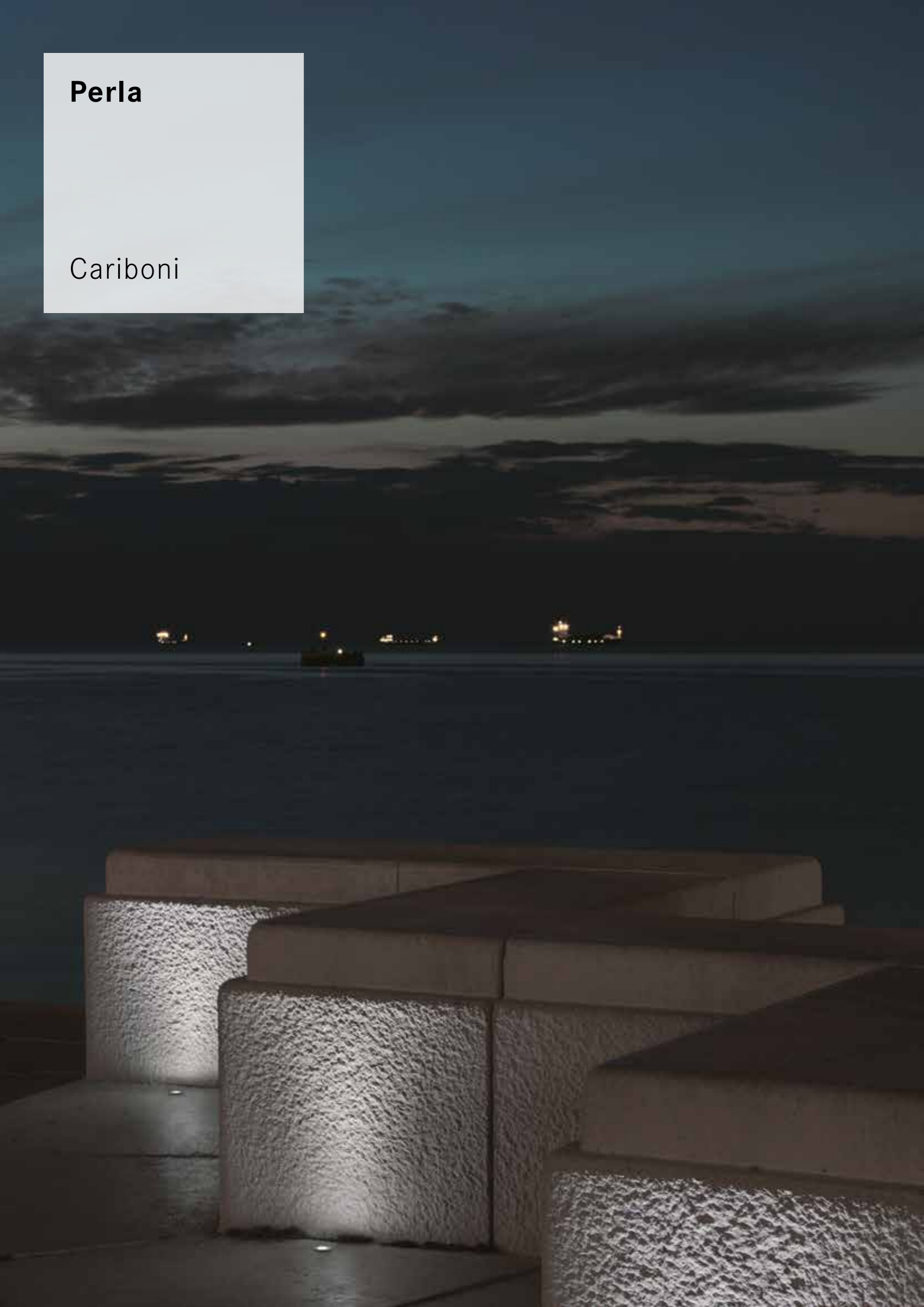
Driver elettronico 30W-240V IP67
Electronic driver 30W-240V IP67
Elektronischer Driver 30W-240V IP67

06KR907X0

Driver elettronico 30W-240V DALI IP67
Electronic driver 30W-240V DALI IP67
Elektronischer Driver 30W-240V DALI IP67

Perla

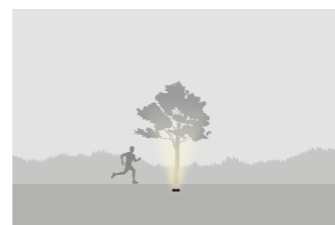
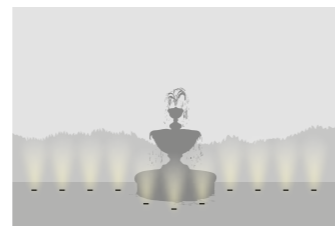
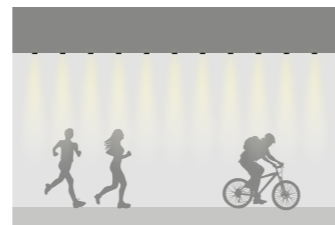
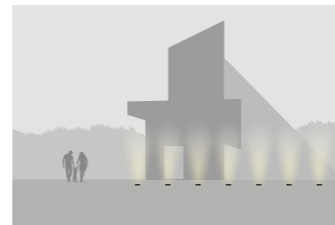
Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL III	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65 IP67 (housing)	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +45° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Natural oxidized aluminium Polished aluminium AISI 316L stainless steel on request	Colori <i>Colours</i> Farben
Remote to be ordered separately	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: incasso a soffitto, terra (calpestabile), controsoffitto
Installation: ceiling recessed, ground (walk over), false ceiling
Installation: Deckeneinbauleuchte, Boden (Begehbar), Zwischendecke



97-100lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

U-D 70°



Ceiling recessed Ultra-wide beam

4000K		
H (m)	Ø (m)	Em (lux)
1	1.4	28
2	2.8	7
3	4.2	3
4	5.5	2
5	7	1

U-D 70°



Walk over Ultra-wide beam

4000K		
H (m)	Ø (m)	Em (lux)
5	7	1
4	5.5	2
3	4.2	3
2	2.8	7
1	1.4	28

U-D 66°



Ceiling recessed Ultra-wide beam

4000K		
H (m)	Ø (m)	Em (lux)
1	1.35	35
2	2.7	9
3	4	4
4	5.3	2
5	6.6	1

U-D 66°



Walk over Ultra-wide beam

4000K		
H (m)	Ø (m)	Em (lux)
5	6.6	1
4	5.3	2
3	4	4
2	2.7	9
1	1.35	35

C 10°



Ceiling recessed Narrow beam

4000K		
H (m)	Ø (m)	Em (lux)
1	0.2	689
2	0.45	172
3	0.65	77
4	0.90	43
5	1.1	28

C 10°



Walk over Narrow beam

4000K		
H (m)	Ø (m)	Em (lux)
5	1.1	28
4	0.90	43
3	0.65	77
2	0.45	172
1	0.2	689

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

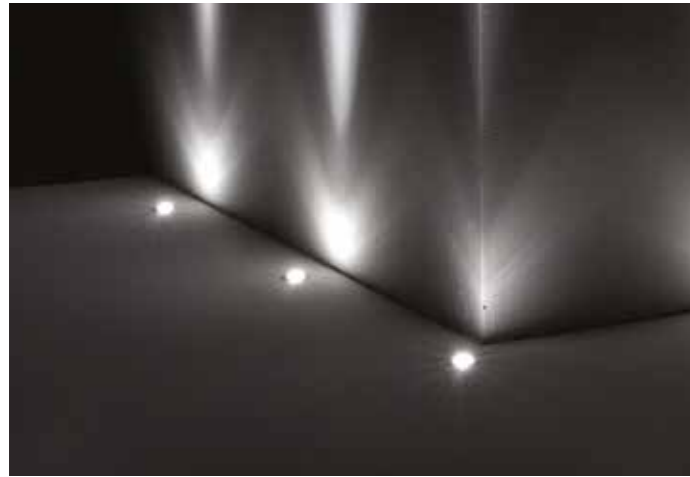


Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

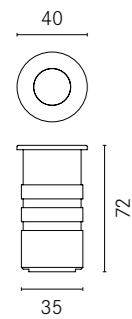


Calpestabile
Walk Over
Begehbar

230V 50Hz CL III IP67 IK08



Perla walk over
fastening with housing



Max weight: 0.20kg

Perla	
06PX1	
Led (source flux): Ref. @350mA @4000K Ref. @350mA @3000K	
100lm 1W 0	97lm 1W 0
K	
4000 1	3000 9
Optics	
U-D 66° 7	U-D 70° 8
Colors	
Natural oxidized aluminium J	Polished aluminium Y
Fastening	
Housing walk over W	

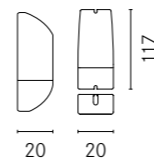
Esempio Example Beispiel

06PX1	0	1	7	J	W
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Accessori Accessories Zubehör Perla

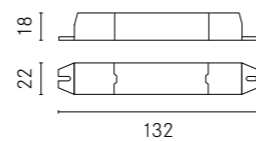
06LL907AB0

Driver elettronico IP23 15W 350mA max 10 Perla
Electronic driver IP23 15W 350mA max 10 Perla
Elektronischer Driver IP23 15W 350mA max 10 Perla



06LL909AB0

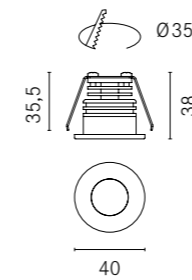
Driver elettronico IP20 1W 350mA max 1 Perla
Electronic driver IP20 1W 350mA max 1 Perla
Elektronischer Driver IP20 1W 350mA max 1 Perla



230V 50Hz CL III IP65 IP67 IK08

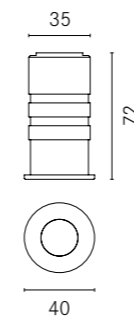


Perla ceiling recessed
fastening with springs



Max weight: 0.05kg

Perla ceiling recessed
fastening with housing



Max weight: 0.10kg

Perla		
06PX1		
Led (source flux): Ref. @350mA @4000K Ref. @350mA @3000K		
100lm 1W 0	97lm 1W 0	
K		
4000 1	3000 9	
Optics		
C 10° 3	U-D 66° 7	U-D 70° 8
Colors		
Natural oxidized aluminium J	Polished aluminium Y	

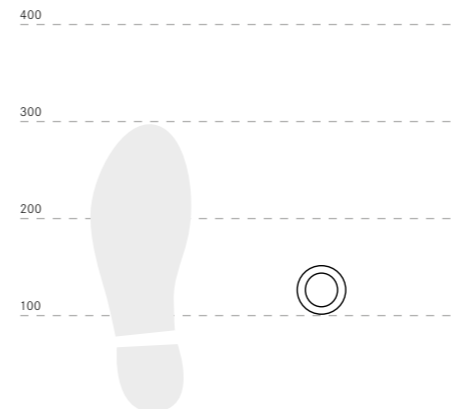
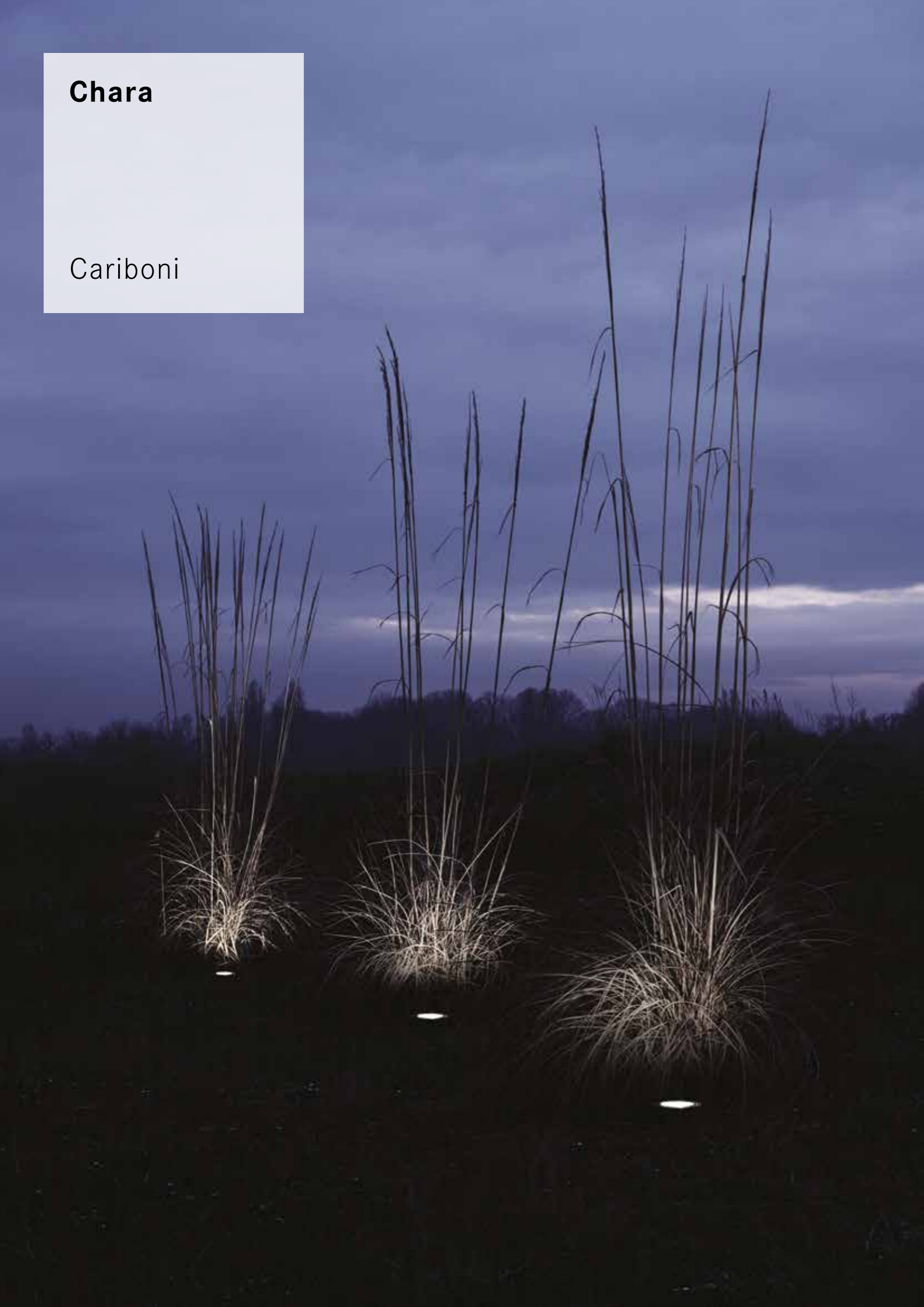
Perla		
06PX1		
Led (source flux): Ref. @350mA @4000K Ref. @350mA @3000K		
100lm 1W 0	97lm 1W 0	
K		
4000 1	3000 9	
Optics		
C 10° 3	U-D 66° 7	U-D 70° 8
Colors		
Natural oxidized aluminium J	Polished aluminium Y	
Fastening		
Housing walk over A		

Esempio Example Beispiel

06PX1	0	1	3	J	A
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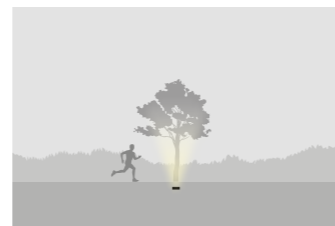
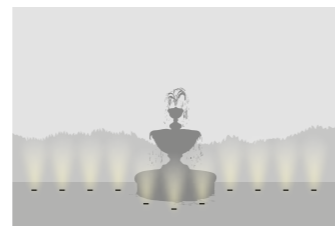
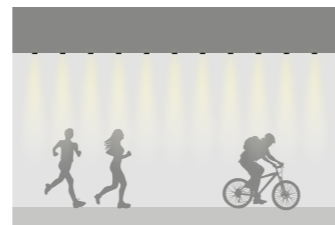
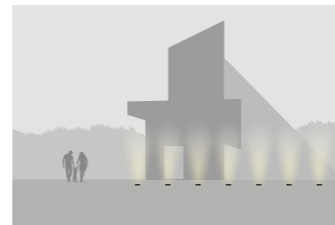
Chara

Cariboni





24 Vdc	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL III	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09 (U-D 90°) IK10	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sandblasted stainless steel AISI 316	Colori <i>Colours</i> Farben
Remote to be ordered separately	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request ON-OFF	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



90-375lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

U-D 90°



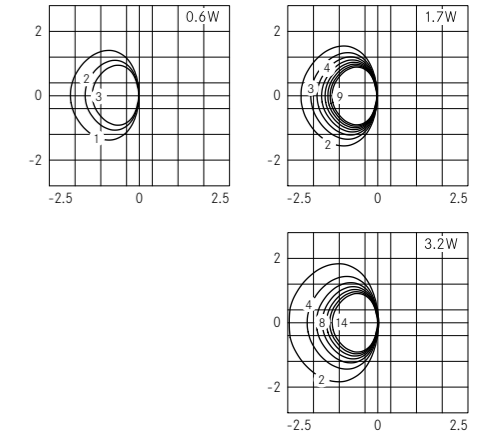
Over recessed Ultra-wide beam

0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	6.6	1	5	6.6	2
4	5.2	2	4	5.2	3
3	4	3	3	4	6
2	2.6	6	2	2.6	13
1	1.3	23	1	1.3	54

U-D 90°



Wall recessed Ultra-wide beam (H= 0.3m)



U-D 90°



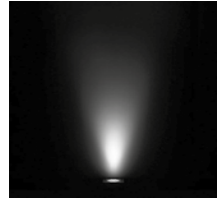
Ceiling recessed Ultra-wide beam

0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	1.3	23	1	1.3	54
2	2.6	6	2	2.6	13
3	4	3	3	4	6
4	5.2	2	4	5.2	3
5	6.6	1	5	6.6	2

3.2W		
H (m)	Ø (m)	Em (lux)
1	1.3	84
2	2.6	21
3	4	9
4	5.2	5
5	6.6	3

Installazione: terra (calpestabile), pavimento flottante, parete, controsoffitto
Installation: ground (walk over), floating floor, wall, false ceiling
Installation: Boden (Begehbar), Schwimmender Boden, Wände, Zwischendecke

M 25°

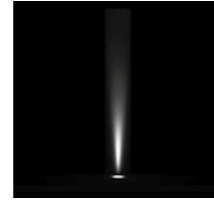


Over recessed Medium beam

0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	2.3	6	5	2.3	16
4	2	9	4	2	25
3	1.5	16	3	1.5	45
2	0.9	37	2	0.9	102
1	0.5	147	1	0.5	407

3.2W		
H (m)	Ø (m)	Em (lux)
5	2.3	26
4	2	40
3	1.5	71
2	0.9	160
1	0.5	640

C 8°



Over recessed Narrow beam

0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.7	61	5	0.7	170
4	0.55	96	4	0.55	266
3	0.4	170	3	0.4	472
2	0.28	383	2	0.28	1063
1	0.15	1530	1	0.15	4251

3.2W		
H (m)	Ø (m)	Em (lux)
5	0.7	267
4	0.55	417
3	0.4	742
2	0.28	1670
1	0.15	6680

M 25°



Ceiling recessed Medium beam

0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.5	147	1	0.5	407
2	0.9	37	2	0.9	102
3	1.5	16	3	1.5	45
4	2	9	4	2	25
5	2.3	6	5	2.3	16

3.2W		
H (m)	Ø (m)	Em (lux)
1	0.5	640
2	0.9	160
3	1.5	71
4	2	40
5	2.3	26

C 8°

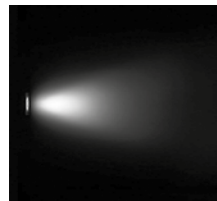


Ceiling recessed Narrow beam

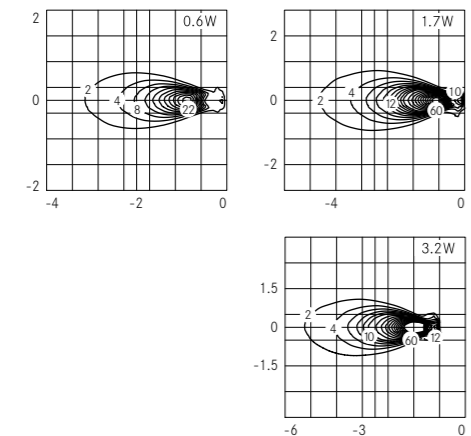
0.6W			1.7W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.15	1530	1	0.15	4251
2	0.28	383	2	0.28	1063
3	0.4	170	3	0.4	472
4	0.55	96	4	0.55	266
5	0.7	61	5	0.7	170

3.2W		
H (m)	Ø (m)	Em (lux)
1	0.15	6680
2	0.28	1670
3	0.4	742
4	0.55	417
5	0.7	267

M 25°



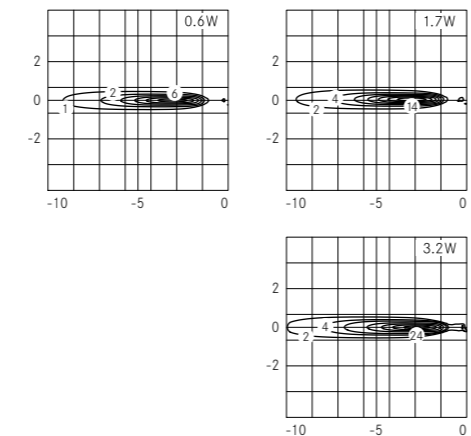
Wall recessed Medium beam (H= 0.3m)



C 8°



Wall recessed Narrow beam (H= 0.3m)



Ta -30° C +50° C
Ta -30° C +50° C
Ta -30° C +50° C

Precablaggio
Pre-wiring
Vorverkabelung

Flicker free
Flicker free
Flicker free

Assenza di viti a vista
No visible screws
Fehlen sichtbarer Schrauben

Elevata resistenza agli urti (IK09-IK10)
Maximum impact resistance (IK09-IK10)
Maximum Stoßfestigkeitsgrad (IK09-IK10)

Dimensioni compatte
Dimensions compact
Kompakten Abmessungen

Sistema acqua stop
Water stop system
Wasserstopp-System

Dimensioni incasso ridotte
Reduced recessed dimensions
Reduzierte Einbaumaße

Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

CRI≥90 SMCD=3
CRI≥90 SMCD=3
CRI≥90 SMCD=3

Calpestabile
Walk Over
Begehbar



Installazione

Chara può essere installato a soffitto, parete o terra. La profondità di incasso è ridotta per permettere l'installazione in ogni tipo di controsoffitto, controparete o pavimento flottante. Disponibile su richiesta dispositivo di connessione elettrica a due o quattro vie e driver di alimentazione per uno o più punti luce.

Installation

Chara can be fitted to ceilings, walls or the ground. It is designed with a reduced recess depth, allowing installation in all kinds of false ceiling, wall lining or raised flooring. On request, a two- or four-way electrical connection device is available, together with power drivers for one or more light points.

Installation

Chara kann an der Decke, an der Wand oder am Boden installiert werden. Die Einbautiefe ist verringert, um den Einbau in jede Art von Zwischendecke, Zwischenwand oder Doppelboden zu ermöglichen. Zweiweg- oder Vierwegvorrichtung für den elektrischen Anschluss und Driver für die Stromversorgung für einen oder mehrere Lichtpunkte auf Anfrage erhältlich.

Potenza alimentazione per collegamento su unico cavo 2x 1,5 mmq (in Watt)

Power supply for the connection to a single cable 2x 1.5 mmq (in Watt)

Gesamtleistung für die Verbindung zu einem einzelmem Kabel 2x 1,5 mmq (in Watt)

Chara Low																				
lunghezza spezzone dorsale - dorsal length - Rückenlänge [m]																				
N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
2	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6
3	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4
4	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2
5	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0
6	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8
7	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,7	5,7	5,7	5,7	5,7	5,7
8	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,4	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
9	7,2	7,2	7,2	7,2	7,2	7,2	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3	7,3
10	8,0	8,0	8,0	8,0	8,0	8,1	8,1	8,1	8,1	8,1	8,1	8,1	8,1	8,1	8,1	8,2	8,2	8,2	8,2	8,2
11	8,8	8,8	8,8	8,9	8,9	8,9	8,9	8,9	8,9	8,9	8,9	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,1
12	9,6	9,6	9,6	9,7	9,7	9,7	9,7	9,7	9,7	9,8	9,8	9,8	9,8	9,8	9,8	9,9	9,9	9,9	9,9	9,9
13	10,4	10,4	10,5	10,5	10,5	10,5	10,5	10,6	10,6	10,6	10,6	10,6	10,7	10,7	10,7	10,7	10,7	10,8	10,8	10,8
14	11,2	11,3	11,3	11,3	11,3	11,4	11,4	11,4	11,4	11,5	11,5	11,5	11,5	11,6	11,6	11,6	11,6	11,7	11,7	11,7
15	12,0	12,1	12,1	12,1	12,2	12,2	12,2	12,2	12,3	12,3	12,3	12,4	12,4	12,4	12,5	12,5	12,5	12,6	12,6	12,6
16	12,8	12,9	12,9	12,9	13,0	13,0	13,1	13,1	13,1	13,2	13,2	13,2	13,3	13,3	13,4	13,4	13,4	13,5	13,5	13,5
17	13,6	13,7	13,7	13,8	13,8	13,9	13,9	14,0	14,0	14,0	14,1	14,1	14,2	14,2	14,3	14,3	14,4	14,4	14,4	14,5
18	14,5	14,5	14,6	14,6	14,7	14,7	14,8	14,8	14,9	14,9	15,0	15,0	15,1	15,1	15,2	15,2	15,3	15,3	15,4	15,5
19	15,3	15,3	15,4	15,4	15,5	15,6	15,6	15,7	15,8	15,8	15,9	15,9	16,0	16,1	16,1	16,2	16,2	16,3	16,4	16,4
20	16,1	16,1	16,2	16,3	16,4	16,4	16,5	16,6	16,6	16,7	16,8	16,9	16,9	17,0	17,1	17,1	17,2	17,3	17,4	17,4
21	16,9	17,0	17,0	17,1	17,2	17,3	17,4	17,5	17,5	17,6	17,7	17,8	17,9	18,0	18,0	18,1	18,2	18,3	18,4	18,4
22	17,7	17,8	17,9	18,0	18,1	18,2	18,3	18,4	18,5	18,5	18,6	18,7	18,8	18,9	19,0	19,1	19,2	19,3	19,4	19,5
23	18,5	18,6	18,7	18,8	18,9	19,0	19,2	19,3	19,4	19,5	19,6	19,7	19,8	19,9	20,0	20,1	20,2	20,3	20,4	20,6
24	19,3	19,4	19,6	19,7	19,8	19,9	20,1	20,2	20,3	20,4	20,5	20,7	20,8	20,9	21,0	21,2	21,3	21,4	21,5	21,6
25	20,1	20,3	20,4	20,6	20,7	20,8	21,0	21,1	21,2	21,4	21,5	21,7	21,8	21,9	22,1	22,2	22,3	22,5	22,6	22,8
26	21,0	21,1	21,3	21,4	21,6	21,7	21,9	22,0	22,2	22,3	22,5	22,7	22,8	23,0	23,1	23,3	23,4	23,6	23,7	23,9
27	21,8	21,9	22,1	22,3	22,5	22,6	22,8	23,0	23,2	23,3	23,5	23,7	23,8	24,0	24,2	24,4	24,5	24,7	24,9	25,1
28	22,6	22,8	23,0	23,2	23,4	23,6	23,7	23,9	24,1	24,3	24,5	24,7	24,9	25,1	25,3	25,5	25,7	25,9	26,0	26,2
29	23,4	23,6	23,8	24,1	24,3	24,5	24,7	24,9	25,1	25,3	25,5	25,8	26,0	26,2	26,4	26,6	26,8	27,0	27,2	27,5
30	24,2	24,5	24,7	24,9	25,2	25,4	25,6	25,9	26,1	26,4	26,6	26,8	27,1	27,3	27,5	27,8	28,0	28,2	28,5	28,7

Chara Medium																				
lunghezza spezzone dorsale - dorsal length - Rückenlänge [m]																				
N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
2	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
3	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,6	7,6	7,6	7,6	7,6	7,6
4	10,0	10,0	10,0	10,0	10,0	10,0	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1	10,1
5	12,5	12,5	12,5	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,6	12,7	12,7	12,7	12,7	12,7	12,7	12,7	12,8	12,8
6	15,0	15,0	15,1	15,1	15,1	15,1	15,2	15,2	15,2	15,2	15,2	15,3	15,3	15,3	15,3	15,4	15,4	15,4	15,4	15,4
7	17,5	17,6	17,6	17,6	17,7	17,7	17,7	17,8	17,8	17,8	17,9	17,9	17,9	18,0	18,0	18,0	18,1	18,1	18,1	18,2
8	20,1	20,1	20,2	20,2	20,3	20,3	20,4	20,4	20,5	20,5	20,6	20,6	20,7	20,7	20,8	20,8	20,9	20,9	20,9	21,0
9	22,6	22,6	22,7	22,8	22,9	22,9	23,0	23,1	23,1	23,2	23,3	23,3	23,4	23,5	23,5	23,6	23,7	23,8	23,8	23,9
10	25,1	25,2	25,3	25,4	25,5	25,6	25,7	25,8	25,8	25,9	26,0	26,1	26,2	26,3	26,4	26,5	26,6	26,7	26,8	26,9
11	27,6	27,8	27,9	28,0	28,1	28,2	28,4	28,5	28,6	28,7	28,9	29,0	29,1	29,2	29,4	29,5	29,6	29,7	29,8	30,0
12	30,2	30,3	30,5	30,6	30,8	31,0	31,1	31,3	31,4	31,6	31,7	31,9	32,1	32,2	32,4	32,5	32,7	32,8	33,0	33,2
13	32,7	32,9	33,1	33,3	33,5	33,7	33,9	34,1	34,3	34,5	34,7	34,9	35,1	35,3	35,5	35,7	35,9	36,1	36,3	36,5
14	35,3	35,5	35,7	36,0	36,2	36,5	36,7	37,0	37,2	37,5	37,7	38,0	38,2	38,5	38,7	39,0	39,2	39,4	39,7	39,9
15	37,8	38,1	38,4	38,7	39,0	39,3	39,6	39,9	40,2	40,5	40,8	41,1	41,4	41,7	42,0	42,3	42,6	42,9	43,2	43,5
16	40,4	40,7	41,1	41,5	41,8	42,2	42,6	42,9	43,3	43,6	44,0	44,4	44,7	45,1	45,5	45,8	46,2	46,6	46,9	47,3
17	42,9	43,4	43,8	44,2	44,7	45,1	45,5	46,0	46,4	46,8	47,3	47,7	48,1	48,6	49,0	49,4	49,9	50,3	50,8	51,2
18	45,5	46,0	46,5	47,1	47,6	48,1	48,6	49,1	49,6	50,1	50,6	51,2	51,7	52,2	52,7	53,2	53,7	54,2	54,7	55,3
19	48,1	48,7	49,3	49,9	50,5	51,1	51,7	52,3	52,9	53,5	54,1	54,7	55,3	55,9	56,5	57,1	57,7	58,3	58,9	59,5
20	50,7	51,4	52,1	52,8	53,5	54,2	54,9	55,6	56,3	57,0	57,7	58,4	59,1	59,8	60,5	61,2	61,9	62,6	63,3	64,0
21	53,3	54,1	54,9	55,7	56,5	57,3	58,1	58,9	59,8	60,6	61,4	62,2	63,0	63,8	64,6	65,4	66,2	67,0	67,8	68,6
22	55,9	56,9	57,8	58,7	59,6	60,5	61,5	62,4	63,3	64,2	65,2	66,1	67,0	67,9	68,8	69,8	70,7	71,6	72,5	73,5
23	58,6	59,6	60,7	61,7	62,8	63,8	64,9	65,9	67,0	68,0	69,1	70,1	71,2	72,2	73,3	74,3	75,4	76,4	77,5	78,5
24	61,2	62,4	63,6	64,8	66,0	67,2	68,3	69,5	70,7	71,9	73,1	74,3	75,5	76,7	77,9	79,1	80,3	81,4	82,6	83,8
25	63,9	65,2	66,5	67,9	69,2	70,6	71,9	73,3	74,6	75,9	77,3	78,6	80,0	81,3	82,7	84,0	85,3	86,7	88,0	89,4
26	66,5	68,0	69,5	71,0	72,5	74,1	75,6	77,1	78,6	80,1	81,6	83,1	84,6	86,1	87,6	89,1	90,6	92,1	93,6	95,2
27	69,2	70,9	72,6	74,3	75,9	77,6	79,3	81,0	82,7	84,4	86,0	87,7	89,4	91,1	92,8	94,5	96,1	97,8	99,5	101,2
28	71,9	73,8	75,6	77,5	79,4	81,3	83,1	85,0	86,9	88,8	90,6	92,5	94,4	96,3	98,1	100,0	101,9	103,8	105,6	107,5
29	74,6	76,7	78,8	80,8	82,9	85,0	87,1	89,1	91,2	93,3	95,4	97,5	99,5	101,6	103,7	105,8	107,9	109,9	112,0	114,1
30	77,3	79,6	81,9	84,2	86,5	88,8	91,1	93,4	95,7	98,0	100,3	102,6	104,9	107,2	109,5	111,8	114,1	116,4	118,7	121,0

DRIVER:	power [W]
24V-10W	10
24V-60W	60
24V-150W	150
not supported	> 150

24Vdc	CL III	IP67	IK09 IK10
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Potenza alimentazione per collegamento su unico cavo 2x 1,5 mmq (in Watt)

Power supply for the connection to a single cable 2x 1.5 mmq (in Watt)

Gesamtleistung für die Verbindung zu einem einzelmem Kabel 2x 1,5 mmq (in Watt)

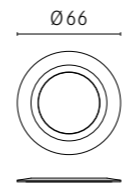
Chara High																				
lunghezza spezzone dorsale - dorsal length - Rückenlänge [m]																				
N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
2	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,8	8,9	8,9	8,9	8,9	8,9	8,9	8,9	8,9
3	13,2	13,2	13,2	13,2	13,3	13,3	13,3	13,3	13,3	13,3	13,3	13,3	13,4	13,4	13,4	13,4	13,4	13,4	13,4	13,4
4	17,6	17,7	17,7	17,7	17,7	17,7	17,8	17,8	17,8	17,8	17,9	17,9	17,9	17,9	17,9	18,0	18,0	18,0	18,0	18,1
5	22,0	22,1	22,1	22,2	22,2	22,3	22,3	22,3	22,4	22,4	22,5	22,5	22,5	22,6	22,6	22,7	22,7	22,8	22,8	22,8
6	26,5	26,5	26,6	26,7	26,8	26,8	26,9	27,0	27,0	27,1	27,2	27,2	27,3	27,4	27,4	27,5	27,6	27,6	27,7	27,8
7	30,9	31,0	31,1	31,2	31,3	31,4	31,5	31,7	31,8	31,9	32,0	32,1	32,2	32,3	32,4	32,5	32,6	32,7	32,8	32,9
8	35,4	35,5	35,7	35,8	36,0	36,1	36,3	36,4	36,6	36,7	36,9	37,1	37,2	37,4	37,5	37,7	37,8	38,0	38,1	38,3
9	39,8	40,0	40,3	40,5	40,7	40,9	41,1	41,3	41,5	41,8	42,0	42,2	42,4	42,6	42,8	43,0	43,3	43,5	43,7	43,9
10	44,3	44,6	44,9	45,2	45,5	45,8	46,0	46,3	46,6	46,9	47,2	47,5	47,8	48,1	48,4	48,7	48,9	49,2	49,5	49,8
11	48,8	49,2	49,6	49,9	50,3	50,7	51,1	51,5	51,8	52,2	52,6	53,0	53,4	53,8	54,1	54,5	54,9	55,3	55,7	56,0
12	53,3	53,8	54,3	54,8	55,3	55,8	56,2	56,7	57,2	57,7	58,2	58,7	59,2	59,7	60,2	60,6	61,1	61,6	62,1	62,6
13	57,8	58,5	59,1	59,7	60,3	60,9	61,5	62,2	62,8	63,4	64,0	64,6	65,2	65,9	66,5	67,1	67,7	68,3	68,9	69,6
14	62,4	63,1	63,9	64,7	65,4	66,2	67,0	67,7	68,5	69,3	70,0	70,8	71,6	72,3	73,1	73,8	74,6	75,4	76,1	76,9
15	67,0	67,9	68,8	69,8	70,7	71,6	72,6	73,5	74,4	75,4	76,3	77,2	78,2	79,1	80,0	81,0	81,9	82,8	83,8	84,7
16	71,6	72,7	73,8	74,9	76,1	77,2	78,3	79,4	80,6	81,7	82,8	83,9	85,1	86,2	87,3	88,4	89,6	90,7	91,8	93,0
17	76,2	77,5	78,9	80,2	81,5	82,9	84,2	85,6	86,9	88,3	89,6	91,0	92,3	93,6	95,0	96,3	97,7	99,0	100,4	101,7
18	80,8	82,4	84,0	85,6	87,2	88,8	90,3	91,9	93,5	95,1	96,7	98,3	99,9	101,5	103,0	104,6	106,2	107,8	109,4	111,0
19	85,5	87,3	89,2	91,1	92,9	94,8	96,6	98,5	100,4	102,2	104,1	105,9	107,8	109,7	111,5	113,4	115,2	117,1	119,0	120,8
20	90,2	92,4	94,5	96,7	98,8	101,0	103,2	105,3	107,5	109,6	111,8	114,0	116,1	118,3	120,4	122,6	124,8	126,9	129,1	131,2
21	94,9	97,4	99,9	102,4	104,9	107,4	109,9	112,4	114,9	117,4	119,9	122,3	124,8	127,3	129,8	132,3	134,8	137,3	139,8	142,3
22	99,7	102,5	105,4	108,3	111,1	114,0	116,8	119,7	122,5	125,4	128,3	131,1	134,0	136,8	139,7	142,5	145,4	148,3	151,1	154,0
23	104,5	107,7	111,0	114,3	117,5	120,8	124,0	127,3	130,5	133,8	137,0	140,3	143,6	146,8	150,1	153,3	156,6	159,8	163,1	166,3
24	109,3	113,0	116,7	120,4	124,1	127,8	131,5	135,1	138,8	142,5	146,2	149,9	153,6	157,3	161,0	164,7	168,4	172,0	175,7	179,4
25	114,2	118,4	122,5	126,7	130,8	135,0	139,2	143,3	147,5	151,6	155,8	160,0	164,1	168,3	172,4	176,6	180,8	184,9	189,1	193,2
26	119,1	123,8	128,4	133,1	137,8	142,5	147,1	151,8	156,5	161,1	165,8	170,5	175,1	179,8	184,5	189,1	193,8	198,5	203,1	207,8
27	124,1	129,3	134,5	139,7	144,9	150,1	155,4	160,6	165,8	171,0	176,2	181,5	186,7	191,9	197,1	202,3	207,5	212,8	218,0	223,2
28	129,0	134,9	140,7	146,5	152,3	158,1	163,9	169,7	175,5	181,3	187,1	192,9	198,7	204,6	210,4	216,2	222,0	227,8	233,6	239,4
29	134,1	140,5	147,0	153,4	159,8	166,3	172,7	179,2	185,6	192,1	198,5	204,9	211,4	217,8	224,3	230,7	237,1	243,6	250,0	256,5
30	139,2	146,3	153,4	160,5	167,6	174,8	181,9	189,0	196,1	203,2	210,3	217,5	224,6	231,7	238,8	245,9	253,1	260,2	267,3	274,4

apparecchi impianto - fittings - Apparate

DRIVER:	power [W]
24V-10W	10
24V-60W	60
24V-150W	150
not supported	> 150



Chara over recessed / wall recessed



Max weight: 0.4kg

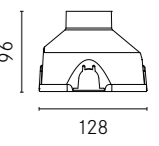
Chara			
06CH			
Power			
0.6W	2W	3.2W	
1	2	3	
Led (source flux) Ref. @4000K			
95lm	250lm	375lm	
A13	A13	A13	
Led (source flux) Ref. @3000K			
90lm	245lm	360lm	
A13	A13	A13	
K			
4000	3000		
0	9		
Optics			
C 8°	M 25°	U-D 90°	
A5	A6	A7	
Colors			
Sandblasted stainless steel AISI 316			
XS			

Esempio Example Beispiel

06CH	1	A13	0	A5	XS
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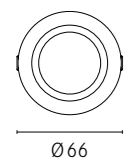
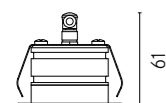
Accessori Accessories Zubehör Chara Over recessed

06CH901B0
 Controcassa calpestabile
 Walk over recessed housing
 Begehbar Einbaugehäuse





Chara ceiling recessed



Max weight: 0.4kg

Chara			
06CH			
Power			
0.6W	2W	3.2W	
1	2	3	
Led (source flux) Ref. @4000K			
95lm	250lm	375lm	
A13	A13	A13	
Led (source flux) Ref. @3000K			
90lm	245lm	360lm	
A13	A13	A13	
K			
4000	3000		
0	9		
Optics			
C 8°	M 25°	U-D 90°	
A5	A6	A7	
Colors			
Sandblasted stainless steel AISI 316			
XS			

Esempio Example Beispiel

06CH	1	A13	0	A5	XS
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Accessori Accessories Zubehör

06KS909C0

Connettore 4 vie IP68
4-way connector IP68
4-Wege-Stecker IP68



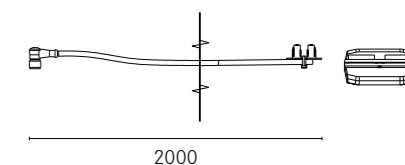
06KS918C0

Connettore 2 vie IP68
2-way connector IP68
2-Wege-Stecker IP68



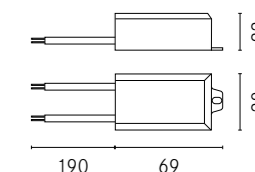
06CH905X0

B163 Kit entra/esci cavo 2m 24V~ con muffola
B163 Kit in/out cable 2m 24V~ with junction box
B163 Kit in/out Kabel 2m 24V~ mit Verbindungsmuffe



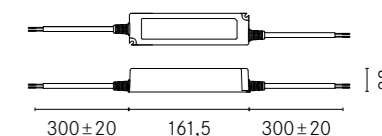
06CH903X0

Driver elettronico 10W-24V IP67
Electronic driver 10W-24V IP67
Elektronischer Driver 10W-24V IP67



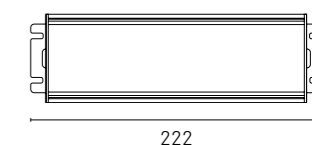
06CH904X0

Driver elettronico 60W-24V IP67
Electronic driver 60W-24V IP67
Elektronischer Driver 60W-24V IP67



06LL914AB0

Driver elettronico 150W-24V IP67
Electronic driver 150W-24V IP67
Elektronischer Driver 150W-24V IP67



Accessori Accessories Zubehör Chara Ceiling recessed

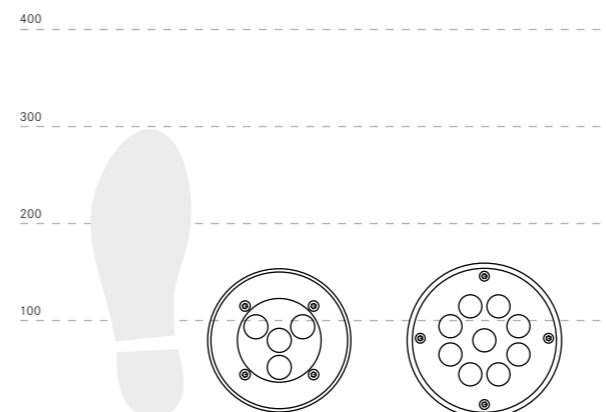
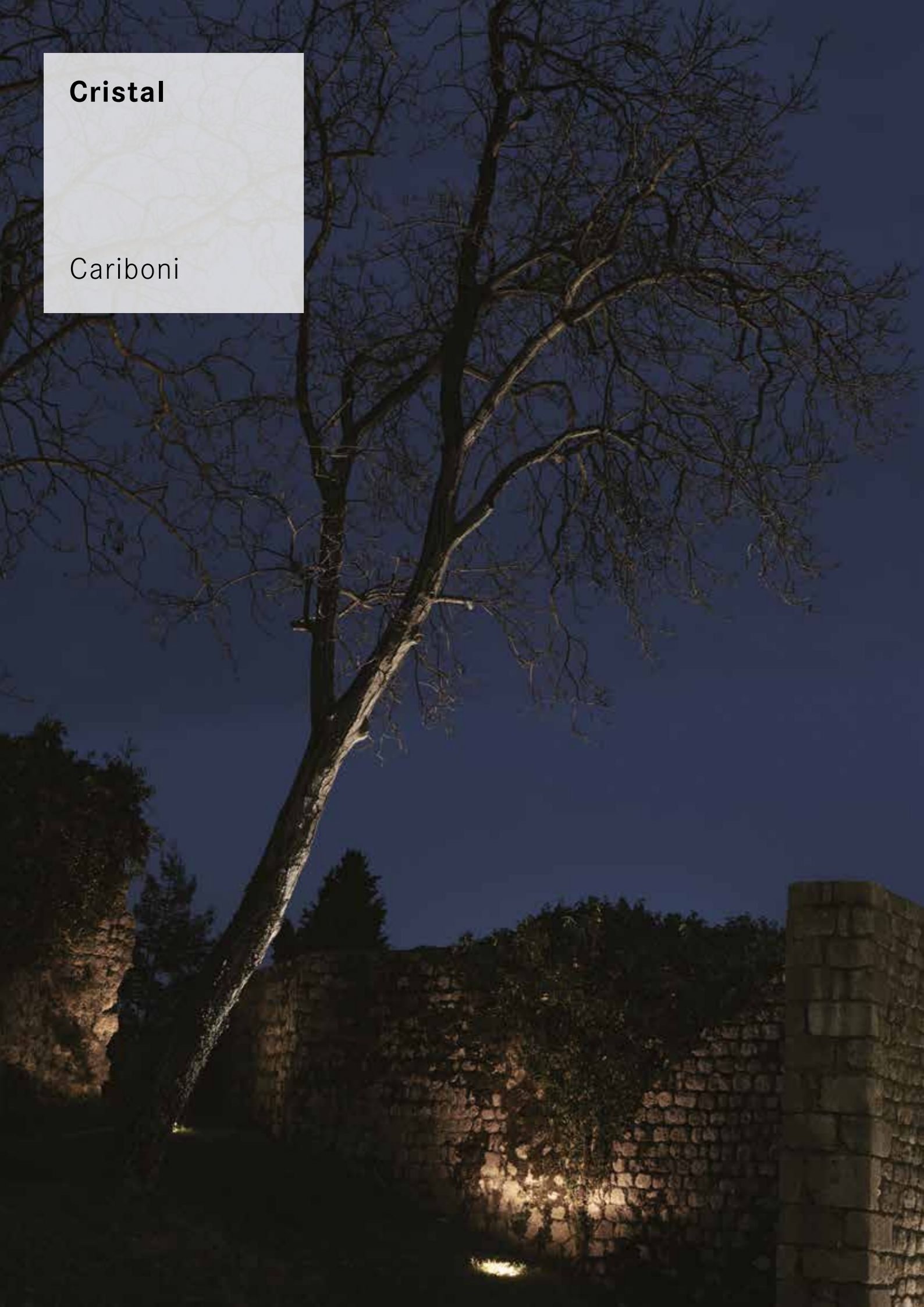
06CH902XX0

Molle
Springs
Federn



Cristal

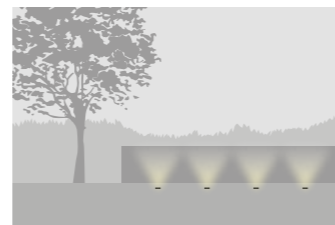
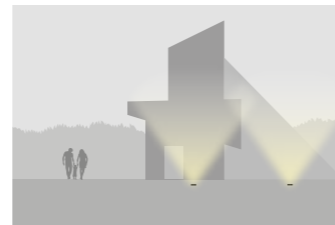
Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: terra (calpestabile), parete
Installation: ground (walk over), wall
Installation: boden (Begehbar), Wand



650-1560lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

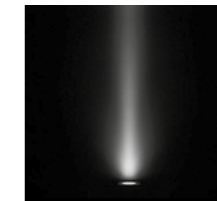
U-D 90°



Walk over recessed small Ultra-wide beam

H (m)	Ø (m)	Em (lux)
5	10.5	3
4	8.5	4
3	6.3	8
2	4.2	17
1	2	68

C 8°



Walk over recessed small Narrow beam

H (m)	Ø (m)	Em (lux)
5	1.1	226
4	0.90	353
3	0.70	627
2	0.45	1410
1	0.2	5641

Walk over recessed medium Ultra-wide beam

H (m)	Ø (m)	Em (lux)
5	10.5	6
4	8.5	9
3	6.3	17
2	4.2	37
1	2	149

Walk over recessed medium Narrow beam

H (m)	Ø (m)	Em (lux)
5	1.1	507
4	0.90	793
3	0.70	1409
2	0.45	3171
1	0.2	12684

D 40°



Walk over recessed small Wide beam

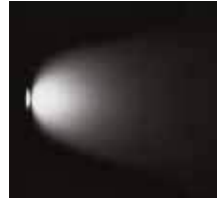
H (m)	Ø (m)	Em (lux)
5	3.5	28
4	2.8	44
3	2	79
2	1.4	177
1	0.70	707

Walk over recessed medium Wide beam

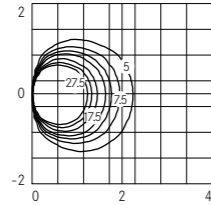
H (m)	Ø (m)	Em (lux)
5	3.5	64
4	2.8	99
3	2	177
2	1.4	397
1	0.70	1589

Cristal

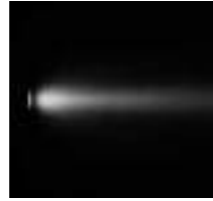
U-D 90°



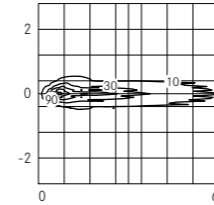
Wall recessed small Ultra-wide beam (H= 0.3m)



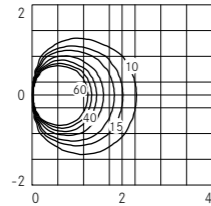
C 8°



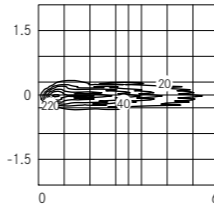
Wall recessed small Narrow beam (H= 0.3m)



Wall recessed medium Ultra-wide beam (H= 0.3m)



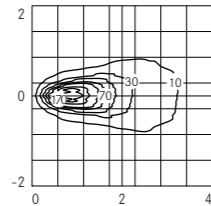
Wall recessed medium Narrow beam (H= 0.3m)



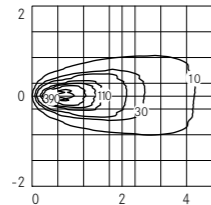
D 40°



Wall recessed small Wide beam (H= 0.3m)



Wall recessed medium Wide beam (H= 0.3m)



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



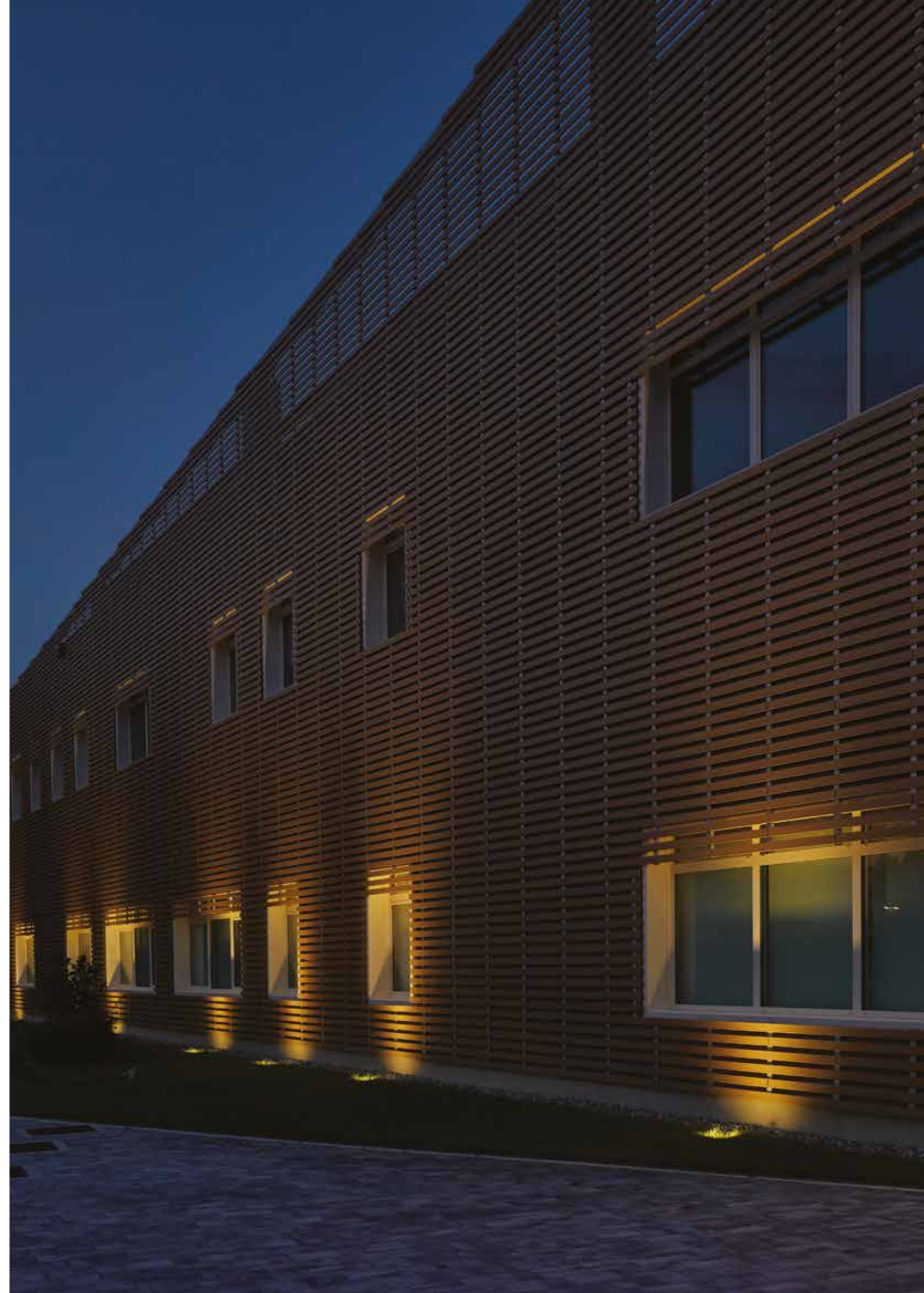
Precablaggio
Pre-wiring
Vorverkabelung



Sistema acqua stop
Water stop system
Wasserstopp-System

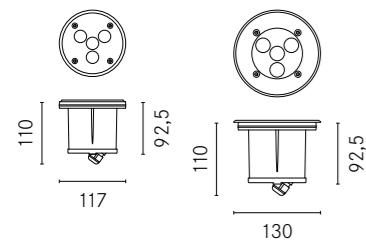


Calpestabile
Walk Over
Begehbar





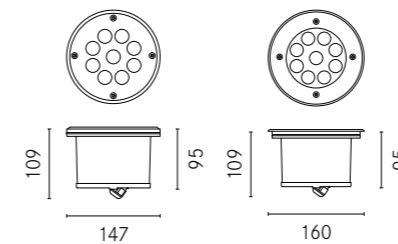
Cristal V
Cristal V-I
walk over recessed small



Max weight: 1.0kg

Cristal S		
06CL		
Options		
V	V-I	
2	4	
Led (source flux):		
Ref. @500mA @4000K	Ref. @500mA @3000K	
695lm 6W	650lm 6W	
A4	A4	
mA		
500		
4		
K		
4000	3000	
0	9	
Optics		
C 8°	D 40°	U-D 90°
4	5	9_J
Colors		
RAL9006		
A		

Cristal V
Cristal V-I
walk over recessed medium



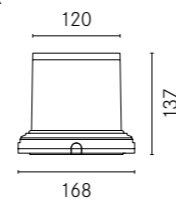
Max weight: 1.5kg

Cristal M		
06CL		
Options		
V	V-I	
6	8	
Led (source flux):		
Ref. @500mA @4000K	Ref. @500mA @3000K	
1560lm 14W	1460lm 14W	
A9	A9	
mA		
500		
4		
K		
4000	3000	
0	9	
Optics		
C 8°	D 40°	U-D 90°
4	5	9_J
Colors		
RAL9006		
A		

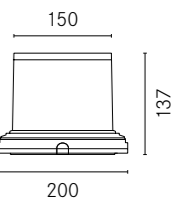
Esempio Example Beispiel

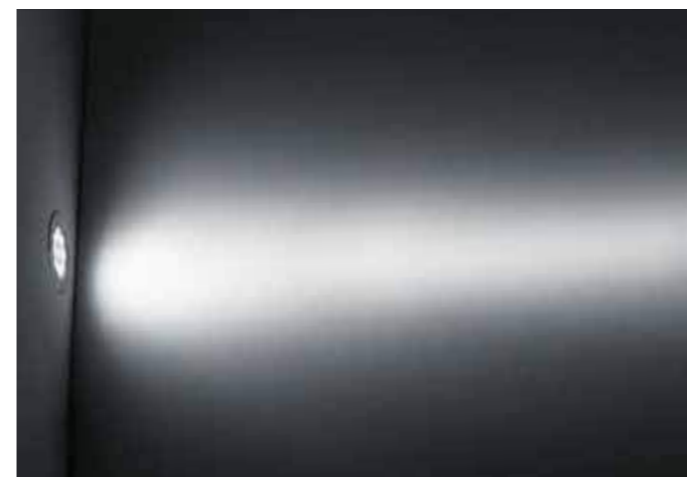
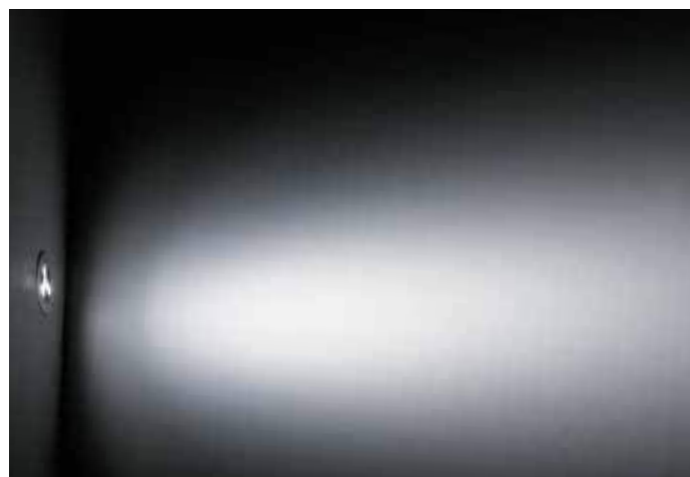
06CL	2	A4	4	0	4	A
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Incasso a terra. L'apparecchio è fornito completo di controcassa in polipropilene stampato con bordo esterno in acciaio inox
Walk-over recessed. The fitting is supplied with recessed housing in moulded polypropylene, with stainless steel external edge
Serie von Bodeneinbauleuchten. Das Gerät wird mit Einbaugehäuse aus gedrücktem Polypropylen,
mit externem Rand im rostfreien Stahl geliefert



Incasso a terra. L'apparecchio è fornito completo di controcassa in polipropilene stampato con bordo esterno in acciaio inox
Walk-over recessed. The fitting is supplied with recessed housing in moulded polypropylene, with stainless steel external edge
Serie von Bodeneinbauleuchten. Das Gerät wird mit Einbaugehäuse aus gedrücktem Polypropylen,
mit externem Rand im rostfreien Stahl geliefert

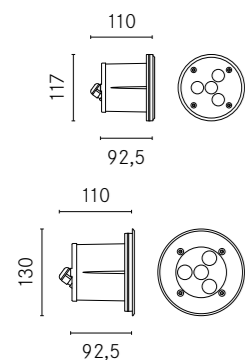




Cristal V

Cristal V-I

wall recessed small



Max weight: 1.0kg

Cristal S

06CL

Options

V	V-I
2	4

Led (source flux):

Ref. @500mA @4000K Ref. @500mA @3000K

695lm 6W 650lm 6W

A4 **A4**

mA

500

4

K

4000

0

3000

9

Optics

C 8°

4

D 40°

5

U-D 90°

9_J

Colors

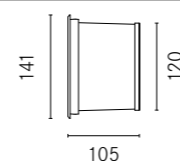
RAL9006

A

Esempio Example Beispiel

06CL	2	A4	4	0	4	A
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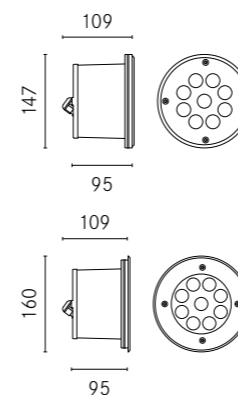
Incasso a parete. L'apparecchio è fornito completo di controcassa in polipropilene stampato con bordo esterno in acciaio inox
 Wall recessed. The fitting is supplied with recessed housing in moulded polypropylene, with stainless steel external edge
 Serie von Wandeinbauleuchten. Das Gerät wird mit Einbaugehäuse aus gedrücktem Polypropylen, mit externem Rand im rostfreien Stahl geliefert.



Cristal V

Cristal V-I

wall recessed medium



Max weight: 1.5kg

Cristal M

06CL

Options

V	V-I
6	8

Led (source flux):

Ref. @500mA @4000K Ref. @500mA @3000K

1560lm 14W

1460lm 14W

A9 **A9**

mA

500

4

K

4000

0

3000

9

Optics

C 8°

4

D 40°

5

U-D 90°

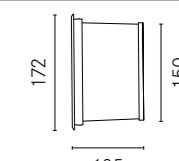
9_J

Colors

RAL9006

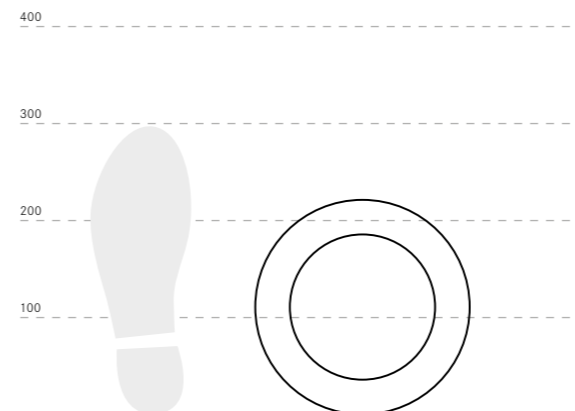
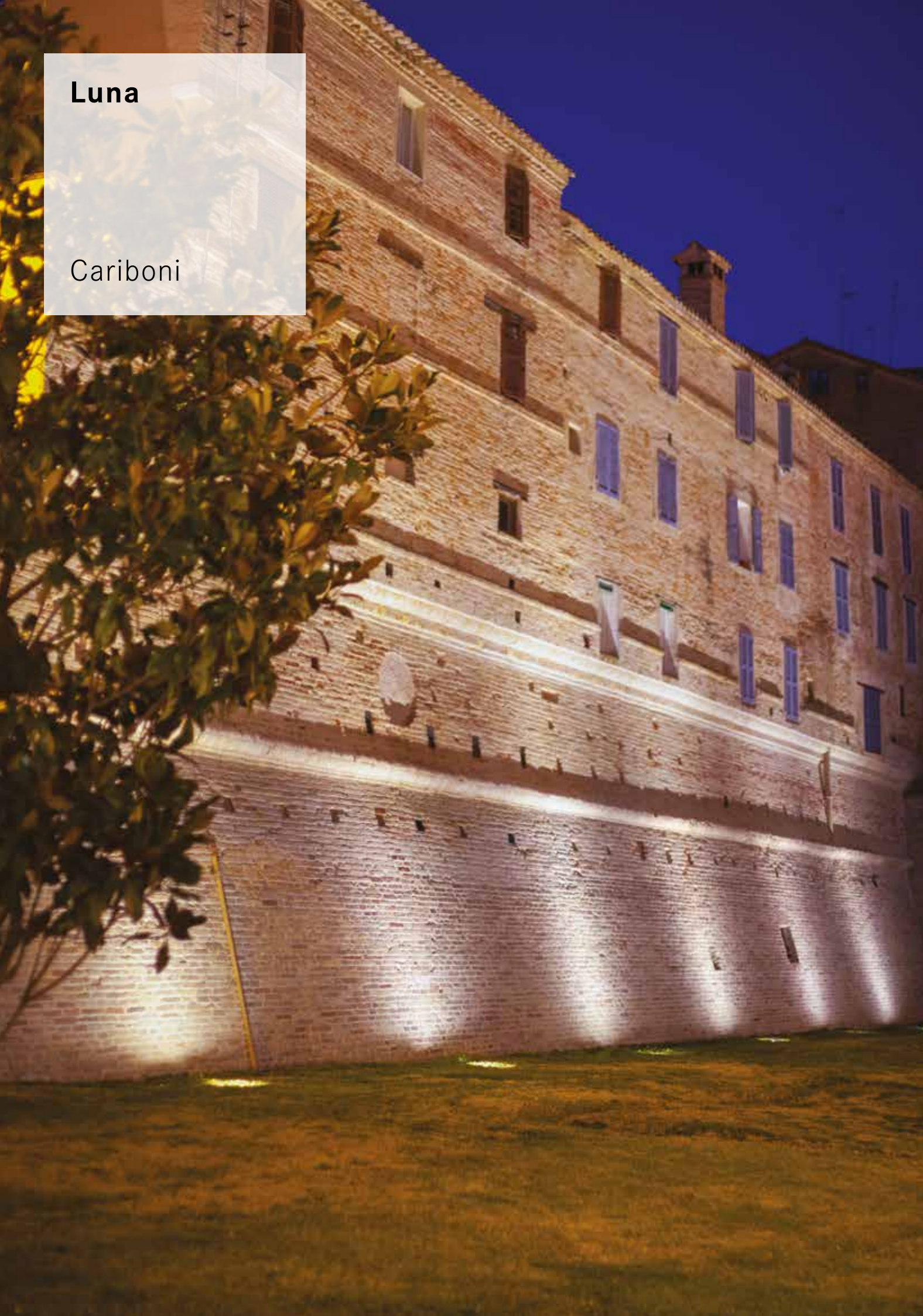
A

Incasso a parete. L'apparecchio è fornito completo di controcassa in polipropilene stampato con bordo esterno in acciaio inox
 Wall recessed. The fitting is supplied with recessed housing in moulded polypropylene, with stainless steel external edge
 Serie von Wandeinbauleuchten. Das Gerät wird mit Einbaugehäuse aus gedrücktem Polypropylen, mit externem Rand im rostfreien Stahl geliefert.



Luna

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK05	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +30° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Body: Grey RAL9006 Frame: Stainless steel	Colori <i>Colours</i> Farben



	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Calpestabile <i>Walk Over</i> Begehbar
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230V 50Hz CL I IP67 IK05

Installazione: incasso a terra

Installation: walk over recessed

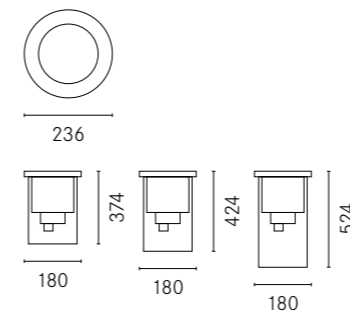
Installation: Begehbare Einbauleuchte

1200-6600lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
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U-D 100°	Ultra-wide beam	FSQ			C 12°	Narrow beam	35W			70W		
		H (m)	Ø (m)	Em (lux)			H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
		5	12	3			5	0.75	571	5	1.5	787
		4	9.4	5			4	0.60	892	4	1.2	1230
		3	7	9			3	0.45	1586	3	0.90	2187
		2	4.8	19			2	0.30	3569	2	0.60	4920
		1	2.2	77			1	0.15	14276	1	0.30	19680

M 32°	Medium beam	35W			70W			U-C 5°	Ultra-narrow beam	20W		
		H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)			H (m)	Ø (m)	Em (lux)
		5	2	233	5	2	322			5	0.42	724
		4	1.65	364	4	1.6	503			4	0.33	1132
		3	1.25	647	3	1.2	894			3	0.25	2012
		2	0.80	1456	2	0.80	2012			2	0.17	4527
		1	0.40	5823	1	0.40	8047			1	0.08	18109

Luna walk over recessed



Max weight: 5.0kg

Luna			
06LN			
Options			
FSQ*	MT	*Only for 100° G24d-2 1200lm	
2	3		
Optics			
5° PGJ5 1600lm 20W	12° G12 3300lm 35W	12° G12 6600lm 70W	32° PGJ5 1600lm 20W
07A	02A	05A	09A
32° G12 3300lm 35W	32° G12 6600lm 70W	100° G24d-2 1200lm 18W	
03A	06A	11A	
Colors			
RAL9006			
A			
Fitting			
CRL wired, power corrected, with lamp		CL with lamp	
4		6	

Esempio *Example* Beispiel

06LN	2	07A	A	4
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Luna Walk over recessed

Accessori Accessories Zubehör

600002063 - 18W FSQ (H 374 mm) **600002064 - 20W MT (H 424mm)**

600002066 - 35-70W MT (H 524mm)

Pozzetto per incasso

Recessed housing

Einbaugehäuse



06SO919AA0 - 18W FSQ

06SO901AA0 - 20-35-70W MT

Griglia a lame dritte RAL9003

Louver with straight blades RAL9003

Blende mit senkrechten Lamellen RAL9003



06SO920AA0 - 18W FSQ

06SO902AA0 - 20-35-70W MT

Griglia a lame inclinate RAL9003

Louver with bent blades RAL9003

Blende mit diagonalen Lamellen RAL9003



06SO926AA0 - 18W FSQ

06SO916AA0 - 20-35-70W MT

Vetro sabbiato RAL9003

Sand-blasted glass RAL9003

Sandgestrahltes Glas RAL9003



06SO930AA0 - RAL9003

Scatola di cablaggio e resina di isolamento

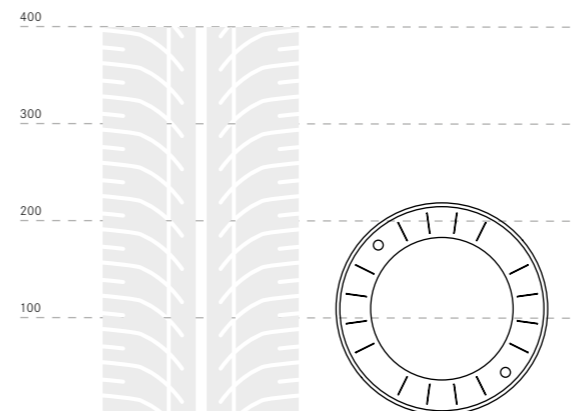
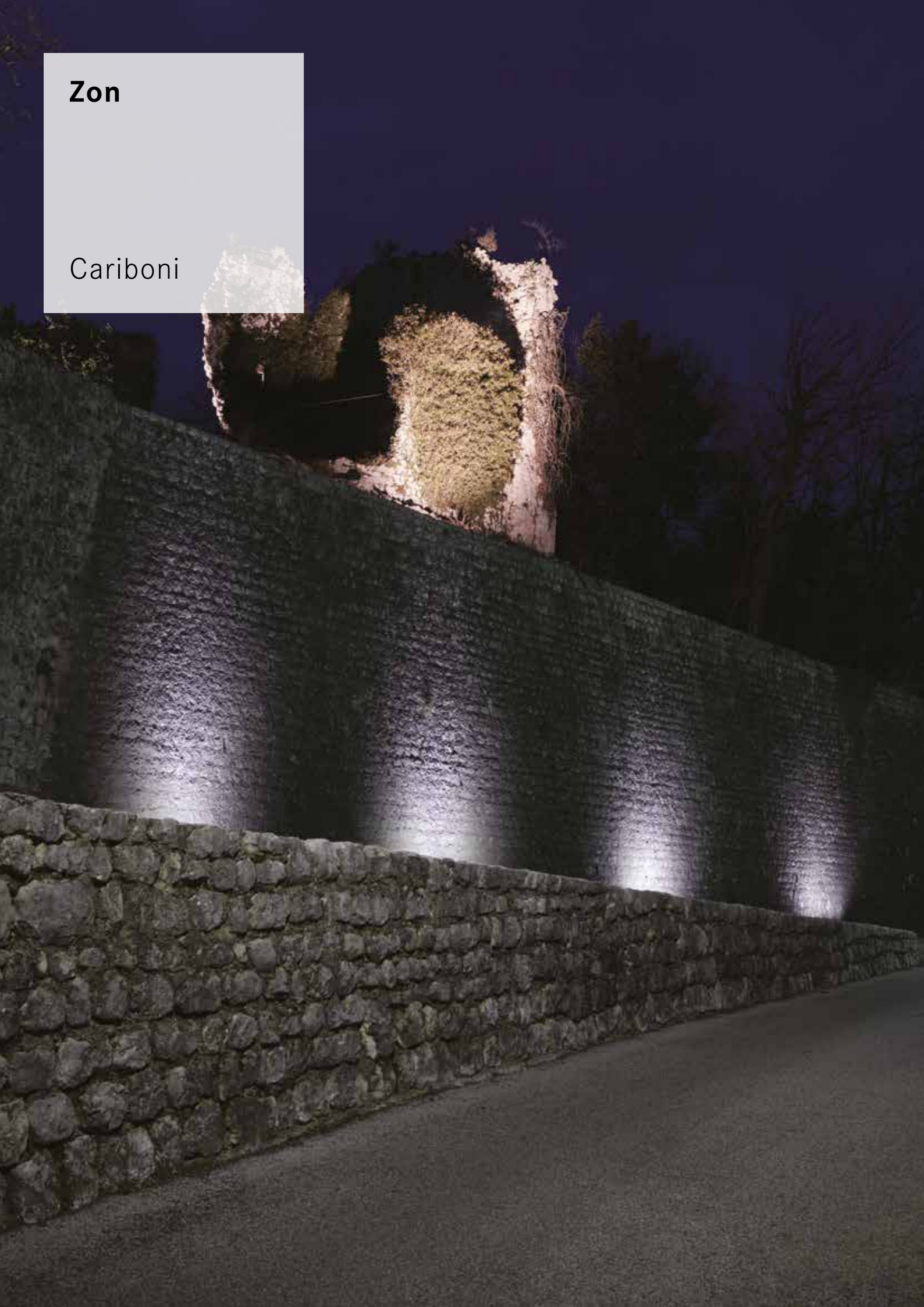
Wiring box and insulation resin

Anschlussgehäuse mit Verdrahtung und Iso-Harz



Zon

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK05	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +30° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Body: Grey RAL9006 Frame: Stainless steel 316	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

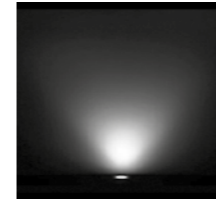


Installazione: incasso a terra
Installation: walk over recessed
Installation: Begehbare Einbauleuchte

1200-6600lm

Flusso sorgente
Source flux
Lichtstrom der Lichtquelle

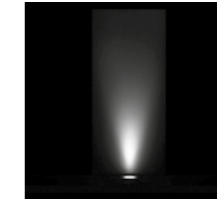
U-D 90°



Ultra-wide beam

18W		
H (m)	Ø (m)	Em (lux)
5	11.72	3
4	9.38	5
3	7.03	8
2	4.69	19
1	2.34	74

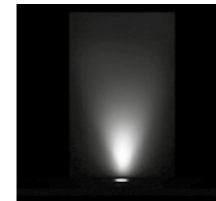
C 12°



Narrow beam

35W			120°		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.98	523	5	1.44	760
4	0.79	817	4	1.15	1188
3	0.59	1452	3	0.86	2112
2	0.39	3267	2	0.58	4751
1	0.20	13068	1	2.29	19004

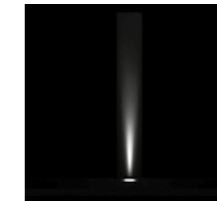
M 32°



Medium beam

20W			35W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	2.07	113	5	1.79	199
4	1.66	177	4	1.43	311
3	1.24	314	3	1.07	553
2	0.83	706	2	0.72	1244
1	0.41	2825	1	0.36	4976

U-C 5°



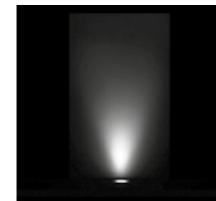
Ultra-narrow beam

20W			35W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	0.42	724	5	0.34	1501
4	0.33	1132	4	0.27	2346
3	0.25	2012	3	0.21	4170
2	0.17	4527	2	0.14	9382
1	0.08	18109	1	0.07	37528

70W PWB		
H (m)	Ø (m)	Em (lux)
5	2.19	295
4	1.75	461
3	1.31	820
2	0.88	1844
1	0.44	7377

70W PWB		
H (m)	Ø (m)	Em (lux)
5	0.64	1257
4	0.52	1964
3	0.39	3492
2	0.26	7856
1	0.13	31424

M 24°



Medium beam

50W		
H (m)	Ø (m)	Em (lux)
5	1.77	59
4	1.42	92
3	1.06	164
2	0.71	368
1	0.35	1472

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52



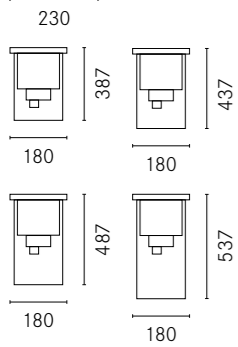
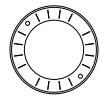
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Carrabile
Drive Over
Befahrbare



Zon over recessed



Max weight: 5.75kg

Code	Source 1	Source 2	W	Source flux 1	K	°C	Fitting	Color
06ZO211AA6	FSQ	G24d-2	18W	1200lm	3000K	100°	CL	RAL9006
06ZO101AA8	HRG	G53	50W	5800cd	3000K	24°	CL	RAL9006
06ZO307AA4	MT	GU6.5	20W	1600lm	3000K	5°	CRL	RAL9006
06ZO309AA4	MT	GU6.5	20W	1600lm	3000K	32°	CRL	RAL9006
06ZO301AA4	MT	G12	35W	3300lm	3000K	5°	CRL	RAL9006
06ZO302AA4	MT	G12	35W	3300lm	3000K	12°	CRL	RAL9006
06ZO303AA4	MT	G12	35W	3300lm	3000K	32°	CRL	RAL9006
06ZO304AA4	MT	G12	70W PWB	6600lm	3000K	5°	CRL	RAL9006
06ZO305AA4	MT	G12	70W PWB	6600lm	3000K	12°	CRL	RAL9006
06ZO306AA4	MT	G12	70W PWB	6600lm	3000K	32°	CRL	RAL9006

Accessori Accessories Zubehör

- 600002003 – 18W FSQ (H 387mm)** **600002004 – 20W MT (H 437mm)**
- 600002005 – 50W MT (H 487mm)** **600002006 – 35-70W MT (H 524mm)**

Pozzetto per incasso RAL9006
 Recessed housing RAL9006
 Einbaugehäuse RAL9006



- 06SO919AA0 – 18W FSQ/50W HRG** **06SO901AA0 – 20-35-70W MT**

Griglia a lame dritte RAL9006
 Louver with straight blades RAL9006
 Blende mit senkrechten Lamellen RAL9006



- 06SO920AA0 – 18W FSQ/50W HRG** **06SO902AA0 – 20-35-70W MT**

Griglia a lame inclinate RAL9006
 Louver with bent blades RAL9006
 Blende mit diagonalen Lamellen RAL9006



- 06SO926AA0 – 18W FSQ/50W HRG** **06SO916AA0 – 20-35-70W MT**

Vetro sabbato RAL9006
 Sand-blasted glass RAL9006
 Sandgestrahltes Glas RAL9006



06SO930AA0 - RAL9003

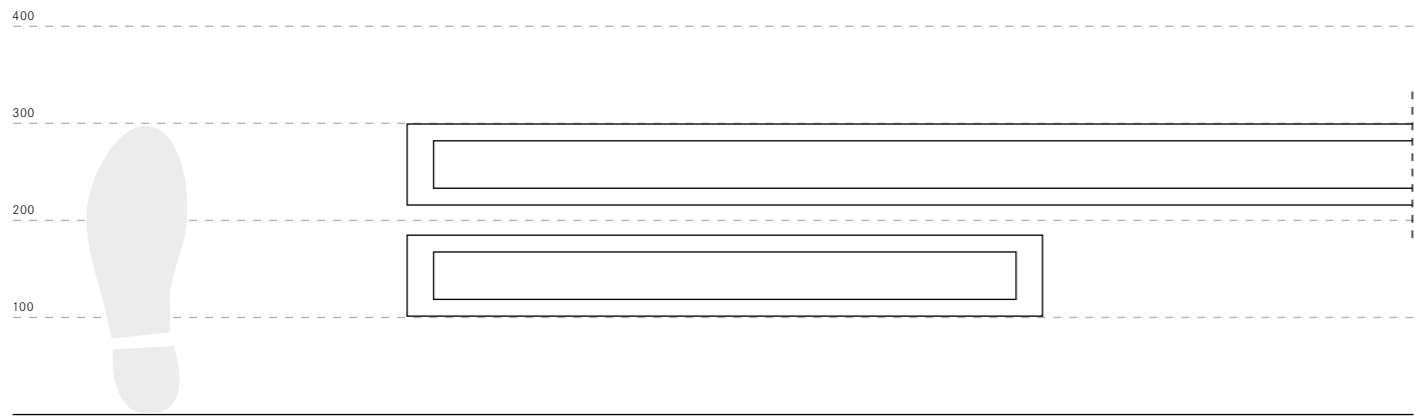
Scatola di cablaggio e resina di isolamento
 Wiring box and insulation resin
 Anschlussgehäuse mit Verdrahtung und Iso-Harz



Trail

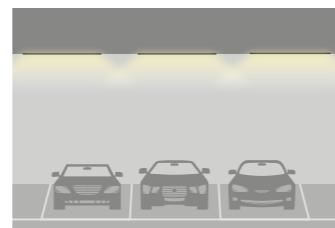
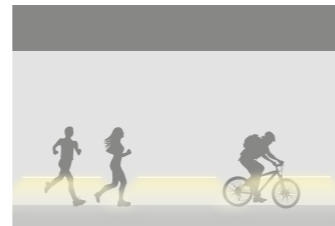
Cariboni







220-240V 50/60Hz CL III 24Vdc	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II with driver wall installation CL III with remote driver	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Natural anodized aluminium	Colori <i>Colours</i> Farben
Remote to be ordered separately	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
1-10V on request DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

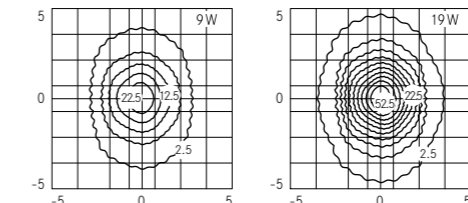


900-3600lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

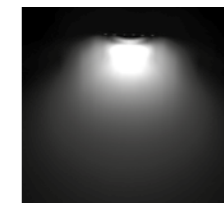
U-D 80° / 100°



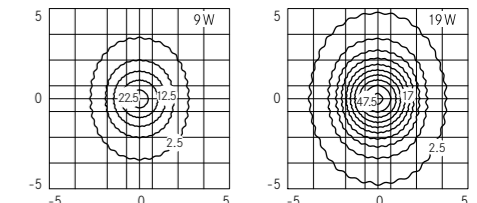
Ceiling 650mm Ultra-wide beam (H= 3m)



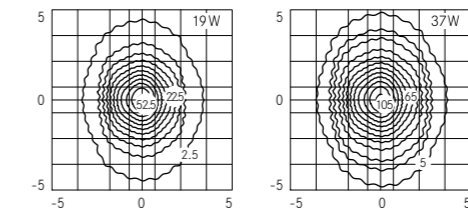
S 75° / 95°



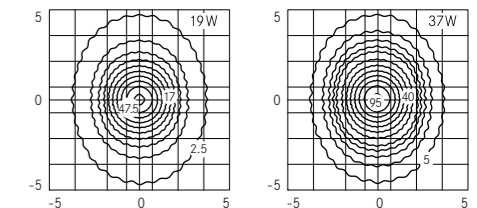
Ceiling 650mm Symmetrical (H= 3m)



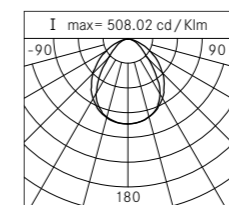
Ceiling 1250mm Ultra-wide beam (H= 3m)



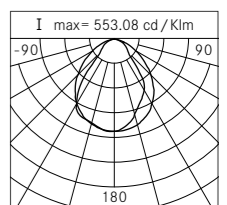
Ceiling 1250mm Symmetrical (H= 3m)



Ceiling 650mm - 1250mm
Ultra-wide beam (H= 3m)



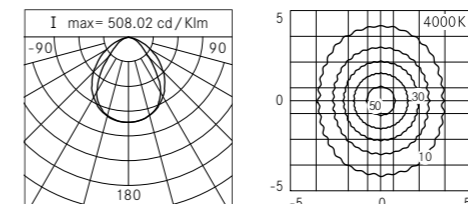
Ceiling 650mm - 1250mm
Symmetrical (H= 3m)



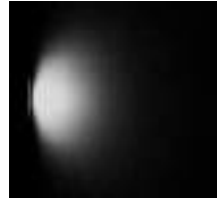
U-D 80° / 100°



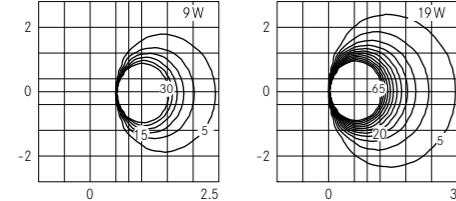
Solid line 2500mm Ultra-wide beam (H= 4m)



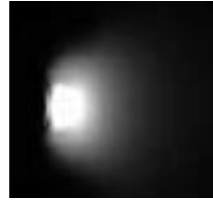
U-D 80° / 100°



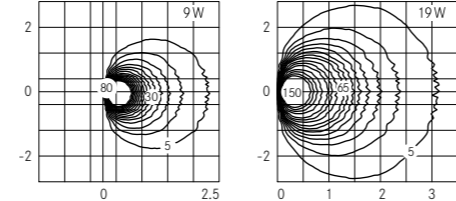
Wall recessed 650mm Ultra-wide beam (H= 0.3m)



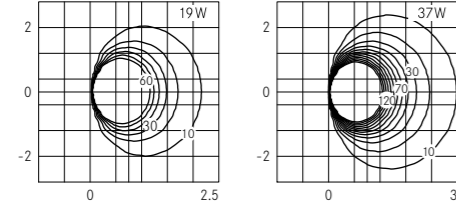
AS 30° α=13°/75°



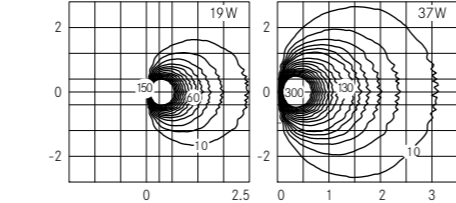
Wall recessed 650mm Asymmetrical (H= 0.3m)



Wall recessed 1250mm Ultra-wide beam (H= 0.3m)



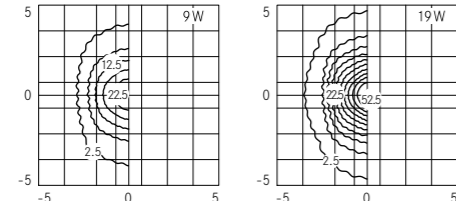
Wall recessed 1250mm Asymmetrical (H= 0.3m)



U-D 80° / 100°



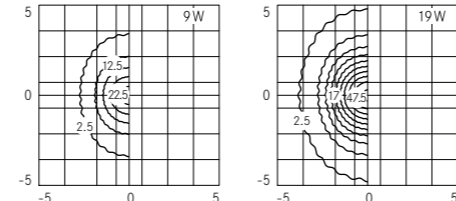
Wall mounted 650mm Ultra-wide beam (H= 3m)



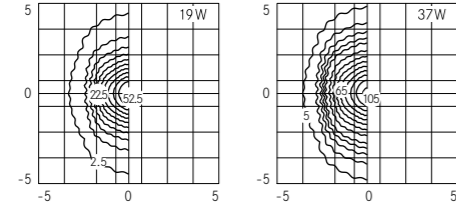
S 75° / 95°



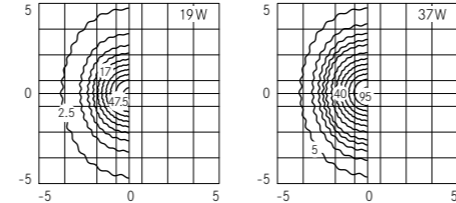
Wall mounted 650mm Symmetrical (H= 3m)



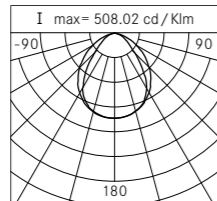
Wall mounted 1250mm Ultra-wide beam (H= 3m)



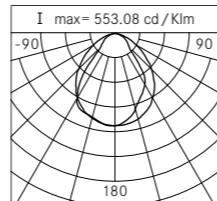
Wall mounted 1250mm Symmetrical (H= 3m)



Wall mounted 650mm - 1250mm
Ultra-wide beam (H= 3m)



Wall mounted 650mm - 1250mm
Symmetrical (H= 3m)



U-D 80° / 100°



Walk over recessed/Ground mounted 650mm
Ultra-wide beam

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	8	3	5	8	7
4	6.4	5	4	6.4	10
3	4.8	9	3	4.8	18
2	3.2	20	2	3.2	41
1	1.6	81	1	1.6	163

Walk over recessed/Ground mounted 1250mm
Ultra-wide beam

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	8	7	5	8	13
4	6.4	10	4	6.4	20
3	4.8	18	3	4.8	36
2	3.2	41	2	3.2	81
1	1.6	163	1	1.6	325

S 75° / 95°



Walk over recessed/Ground mounted 650mm
Symmetrical

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	7.2	4	5	7.2	7
4	6	6	4	6	11
3	4.4	10	3	4.4	20
2	3	23	2	3	45
1	1.5	91	1	1.5	181

Walk over recessed/Ground mounted 1250mm
Symmetrical

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	7.2	7	5	7.2	15
4	6	11	4	6	23
3	4.4	20	3	4.4	40
2	3	45	2	3	91
1	1.5	181	1	1.5	363

AS 30° α=13°/75°



Walk over recessed/Ground mounted 650mm
Asymmetrical

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	3	12	5	3	24
4	2.4	19	4	2.4	37
3	1.8	33	3	1.8	66
2	1.2	74	2	1.2	148
1	0.6	296	1	0.6	593

Walk over recessed/Ground mounted 1250mm
Asymmetrical

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
5	3	24	5	3	47
4	2.4	37	4	2.4	74
3	1.8	66	3	1.8	132
2	1.2	148	2	1.2	296
1	0.6	593	1	0.6	1186

U-D 80° / 100°



Ceiling recessed 650mm Ultra-wide beam

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	1.6	81	1	1.6	163
2	3.2	20	2	3.2	41
3	4.8	9	3	4.8	18
4	6.4	5	4	6.4	10
5	8	3	5	8	7

Ceiling recessed 1250mm Ultra-wide beam

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	1.6	163	1	1.6	325
2	3.2	41	2	3.2	81
3	4.8	18	3	4.8	36
4	6.4	10	4	6.4	20
5	8	7	5	8	13

S 75° / 95°



Ceiling recessed 650mm Symmetrical

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	1.5	91	1	1.5	181
2	3	23	2	3	45
3	4.4	10	3	4.4	20
4	6	6	4	6	11
5	7.2	4	5	7.2	7

Ceiling recessed 1250mm Symmetrical

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	1.5	181	1	1.5	363
2	3	45	2	3	91
3	4.4	20	3	4.4	40
4	6	11	4	6	23
5	7.2	7	5	7.2	15

AS 30° α=13°/75°



Ceiling recessed 650mm Asymmetrical

9W			19W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.6	296	1	0.6	593
2	1.2	74	2	1.2	148
3	1.8	33	3	1.8	66
4	2.4	19	4	2.4	37
5	3	12	5	3	24

Ceiling recessed 1250mm Asymmetrical

19W			37W		
H (m)	Ø (m)	Em (lux)	H (m)	Ø (m)	Em (lux)
1	0.6	593	1	0.6	1186
2	1.2	148	2	1.2	296
3	1.8	66	3	1.8	132
4	2.4	37	4	2.4	74
5	3	24	5	3	47



Controcassa

Controcassa ad altezza adeguata per alloggiamento interno sotto ogni Trail della muffola di collegamento, del cavo di alimentazione con connettore rapido. Per l'installazione ad incasso, a terra o parete, ordinare separatamente la controcassa e il driver in relazione alla potenza. La controcassa è fornita con tre inserti in polistirolo separati per consentire la rimozione di una o entrambe le parti in prossimità delle testate al fine di effettuare facilmente le operazioni di collegamento.

Recessed Housing

A recessed housing of suitable depth for the internal housing of the connecting gel box under each Trail and of the power cable with rapid connector. For recessed, ground or wall mounting, order the housing and driver separately according to the power level. The recessed housing is supplied with three separate sections in polystyrene to allow the removal of one or both parts at the level of the heads in order to allow for easy connection.

Einbaugehäuse

Das Einbaugehäuse befindet sich auf einer geeigneten Höhe für den inneren Sitz unter jeder Trail-Leuchte der Anschlussmuffe und des Stromversorgungskabels mit Schnellverbinder. Für die Einbau-, Boden- oder Wandinstallation bestellen Sie separat das Einbaugehäuse und den Driver in Abhängigkeit von der Leistung. Das Einbaugehäuse wird mit drei separaten Polystyroleinsätzen geliefert, um die Entfernung eines oder beider Teile in der Nähe der Köpfe zu ermöglichen und so die Anschlussarbeiten leicht durchzuführen.

Sistema di allineamento

In dotazione con l'accessorio controcassa: muffola, cavo di collegamento con connettore stagno, molle di allineamento e chiavi di estrazione del prodotto. Molle di allineamento ed antivandaliche, inserite in dotazione nella controcassa svolgono la funzione di:

- allineare perfettamente le controcasse;
- garantire l'unione di tutte le controcasse rendendo così difficoltosa la rimozione vandalica del sistema.

La rimozione del prodotto Trail è invece possibile con apposita chiavetta fornita in dotazione.

Alignment System

Supplied with the recessed housing: gel box, connecting cable with watertight connector, alignment spring and tool for removal of the product. Anti-vandal alignment springs inserted into the recessed housing:

- allow for the perfect alignment of the recessed housings;
- guarantee connection of all of the recessed housings, rendering the undesired removal of the system extremely difficult. Trail can however be removed with the specific tool supplied.

Anreihungssystem

Das Einbaugehäuse wird mit folgenden, im Lieferumfang enthaltenen Teilen geliefert: Muffe, Anschlusskabel mit wasserdichtem Verbinder, Anreihungsfedern und Schlüssel, mit denen das Produkt herausgezogen werden kann. Die Anreihungsfedern und die Federn zum Schutz vor Vandalismus, die sich im Einbaugehäuse befinden und im Lieferumfang enthalten sind, haben folgende Funktionen:

- die Einbaugehäuse perfekt anzureihen;
- die Verbindung aller Einbaugehäuse zu gewährleisten und so die Entfernung des Systems durch Vandalismus schwierig zu machen.

Die Entfernung des Trail-Produkts ist hingegen mit einem speziellen, mitgelieferten Schlüssel möglich.

Distanza totale per collegamento su unico cavo 2x1,5mmq (in metri)

Total distance for the connection to a single cable 2x1.5mmq (in meters)

Gesamtabstand für die Verbindung zu einem einzelmem Kabel 2x1,5mmq (in meter)

Trail 650 - 900 lm

N	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
0		549,5	305,3	213,7	164,8	134,3	113,4	98,1	86,5	77,3	69,9	63,8	58,7	54,3	50,6	47,3	44,4	41,9	39,6	37,6	35,8	34,1	32,6	
1	366,6	229,1	171	137,4	115,2	99,2	87,2	77,9	70,3	64,1	58,9	54,5	50,7	47,4	44,5	42	39,7	37,7	35,8	34,1	32,6			
2	275	183,3	142,6	117,8	100,8	88,2	78,5	70,8	64,5	59,2	54,7	50,9	47,6	44,6	42,1	39,8	37,7	35,9	34,2	32,7				
3	152,8	122,2	103,1	89,6	79,4	71,4	64,9	59,5	55	51,1	47,7	44,8	42,2	39,9	37,8	35,9	34,2	32,7						
4	107	91,7	80,7	72,2	65,5	59,9	55,3	51,3	47,9	44,9	42,3	40	37,9	36	34,3	32,7								
5	82,5	73,3	66,2	60,4	55,6	51,6	48,1	45,1	42,4	40,1	38	36,1	34,4	32,8										
6	67,2	61,1	56,1	51,9	48,4	45,3	42,6	40,2	38,1	36,2	34,4	32,9												
7	56,7	52,4	48,7	45,5	42,8	40,3	38,2	36,3	34,5	32,9														
8	49,1	45,8	43	40,5	38,3	36,4	34,6	33																
9	43,3	40,7	38,5	36,5	34,7	33,1																		
10	38,7	36,7	34,8	33,2																				
11	35	33,3																						

Trail 650 - 1800 lm

N	0	1	2	3	4	5	6	7	8	9	10	11
0		275	152,8	107	82,5	67,2	56,7	49,1	43,3	38,7	35	
1	183,3	114,6	85,6	68,8	57,6	49,7	43,7	39	35,2			
2	137,5	91,7	71,3	58,9	50,4	44,1	39,3	35,4				
3	76,4	61,1	51,6	44,8	39,7	35,7						
4	53,5	45,8	40,3	36,1								
5	41,3	36,7										

Trail

Potenza alimentazione per collegamento su unico cavo 2x 1,5 mmq (in Watt)

Power supply power for the connection to a single cable 2x 1.5 mmq (in Watt)

Gesamtleistung für die Verbindung zu einem einzelmem Kabel 2x 1,5 mmq (in Watt)

Trail 650 - 900 lm

	N	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Trail 1250 - 1800 lm	0		9,36	18,72	28,08	37,44	46,8	56,16	65,52	74,88	84,24	93,6	103	112,3	121,7	131	140,4	149,8	159,1	168,5	177,8	187,2	196,6	205,9	215,3
	1	18,7	28,06	37,42	46,78	56,14	65,5	74,86	84,22	93,58	102,9	112,3	121,7	131	140,4	149,7	159,1	168,5	177,8	187,2	196,5	205,9	215,3		
	2	37,4	46,76	56,12	65,48	74,84	84,2	93,56	102,9	112,3	121,6	131	140,4	149,7	159,1	168,4	177,8	187,2	196,5	205,9	215,2				
	3	56,1	65,46	74,82	84,18	93,54	102,9	112,3	121,6	131	140,3	149,7	159,1	168,4	177,8	187,1	196,5	205,9	215,2						
	4	74,8	84,16	93,52	102,9	112,2	121,6	131	140,3	149,7	159	168,4	177,8	187,1	196,5	205,8	215,2								
	5	93,5	102,9	112,2	121,6	130,9	140,3	149,7	159	168,4	177,7	187,1	196,5	205,8	215,2										
	6	112,2	121,6	130,9	140,3	149,6	159	168,4	177,7	187,1	196,4	205,8	215,2												
	7	130,9	140,3	149,6	159	168,3	177,7	187,1	196,4	205,8	215,1														
	8	149,6	159	168,3	177,7	187	196,4	205,8	215,1																
	9	168,3	177,7	187	196,4	205,7	215,1																		
	10	187	196,4	205,7	215,1																				
	11	205,7	215,1																						

Trail 650 - 1800 lm

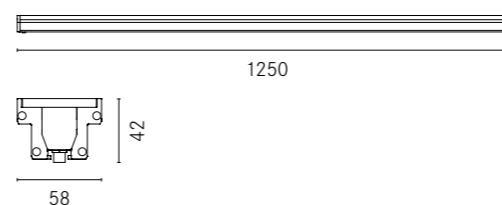
	N	0	1	2	3	4	5	6	7	8	9	10	11
Trail 1250 - 3600 lm	0		18,7	37,4	56,1	74,8	93,5	112,2	130,9	149,6	168,3	187	205,7
	1	37,4	56,1	74,8	93,5	112,2	130,9	149,6	168,3	187	205,7		
	2	74,8	93,5	112,2	130,9	149,6	168,3	187	205,7				
	3	112,2	130,9	149,6	168,3	187	205,7						
	4	149,6	168,3	187	205,7								
	5	187	205,7										

CODE	W	Max W	mt
06TA902X0	60	54,5	73
06LL914AB0	150	136,4	26
06LL915AB0	240	218,2	15





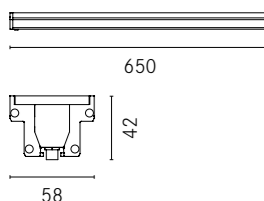
Trail walk over recessed / wall recessed 1250



Max weight: 6kg

Trail 1250		
06TR3		
Led (source flux)		
1800lm 19W	3600lm 37W	
H23	Q43	
K		
4000	3000	
0	9	
Optics		
U-D	S	AS
3	5	7
Colors		
Natural anodized aluminium		
J		

Trail walk over recessed / wall recessed 650



Max weight: 3kg

Trail 650		
06TR2		
Led (source flux)		
900lm 9W	1800lm 19W	
D63	H23	
K		
4000	3000	
0	9	
Optics		
U-D	S	AS
3	5	7
Colors		
Natural anodized aluminium		
J		

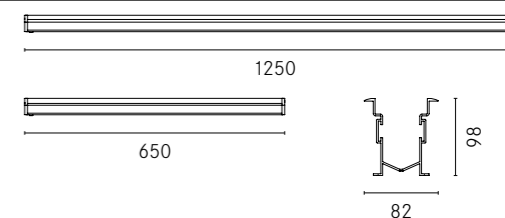
Esempio Example Beispiel

06TR2	D63	0	3	J
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Accessori Accessories Zubehör

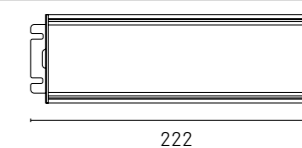
06TR998J0 - Trail 650mm / 06TR999J0 - Trail 1250mm

Controcassa per incasso a terra e parete con cavo, connettori e muffola
 Recessed housing for wall and ground installation complete with cable, connectors and junction box
 Einbaugehäuse für Bodeninstallation-Breite komplett mit Kabel, Verbinder und Verbindungsmuffe



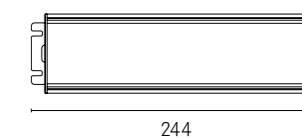
06LL914AB0

Driver elettronico 150W-24V IP67
 Electronic driver 150W-24V IP67
 Elektronischer Driver 150W-24V IP67



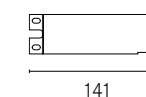
06LL915AB0

Driver elettronico 240W-24V IP67
 Electronic driver 240W-24V IP67
 Elektronischer Driver 240W-24V IP67



06TA902X0

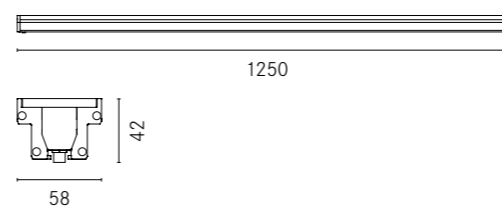
Driver elettronico 60W-24V IP66
 Electronic driver 60W-24V IP66
 Elektronischer Driver 60W-24V IP66



24Vdc CL III IP67 IK08



Trail ceiling recessed 1250



Max weight: 6kg

Trail 1250

06TR3

Led (source flux)

1800lm 19W

H23

3600lm 37W

Q43

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

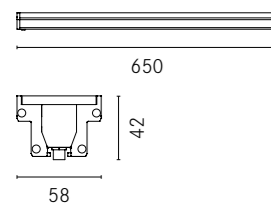
7

Colors

Natural anodized aluminium

J

Trail ceiling recessed 650



Max weight: 3kg

Trail 650

06TR2

Led (source flux)

900lm 9W

D63

1800lm 19W

H23

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

7

Colors

Natural anodized aluminium

J

Esempio Example Beispiel

06TR2 **D63** **0** **3** **J**

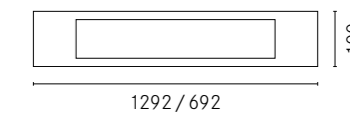
Accessori Accessories Zubehör

06TR988A0 - Trail 650mm / 06TR989A0 - Trail 1250mm

Cornice incasso plafone

Ceiling recessed frame

Decken-Einbaurahmen



06LL914AB0

Driver elettronico 150W-24V IP67

Electronic driver 150W-24V IP67

Elektronischer Driver 150W-24V IP67

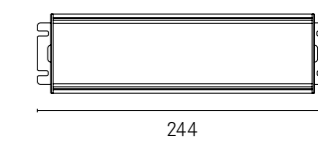


06LL915AB0

Driver elettronico 240W-24V IP67

Electronic driver 240W-24V IP67

Elektronischer Driver 240W-24V IP67

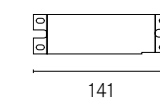


06TA902X0

Driver elettronico 60W-24V IP66

Electronic driver 60W-24V IP66

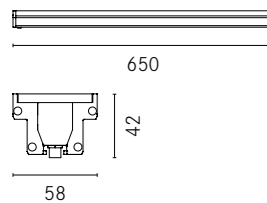
Elektronischer Driver 60W-24V IP66



220 240V	50 60Hz	24Vdc	CL II CL III	IP67	IK08
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Trail wall mounted/ground 650



Max weight: 3kg

Trail 650

06TR2

Led (source flux)

900lm 9W

D63

1800lm 19W

H23

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

7

Colors

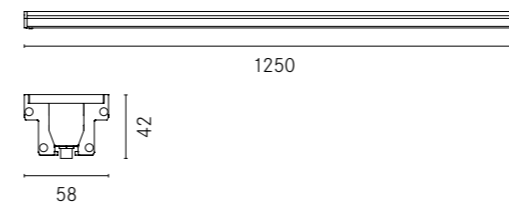
Natural anodized aluminium

J

Esempio Example Beispiel

06TR2	D63	0	3	J
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Trail wall mounted/ground 1250



Max weight: 6kg

Trail 1250

06TR3

Led (source flux)

1800lm 19W

H23

3600lm 37W

Q43

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

7

Colors

Natural anodized aluminium

J

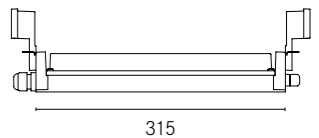
Accessori Accessories Zubehör

06OT988A0 - Trail 650mm / 06OT989A0 - Trail 1250mm

Box cablato per attacco parete / soffitto IP65

IP65 wiring box for wall / ceiling installation

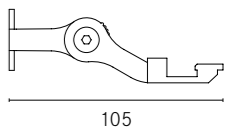
IP65 Verkabelungseinheit für Wand / Deckeinstallation

**06TR997A0 - RAL9006**

Staffe di fissaggio parete con cavo, connettori e muffola

Bracket for wall fastening complete with cable, connectors and junction box

Bügel für Wandinstallation komplett mit Kabel, Verbinder und Verbindungsmuffe

**06LL914AB0**

Driver elettronico 150W-24V IP67

Electronic driver 150W-24V IP67

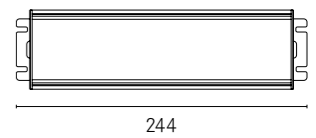
Elektronischer Driver 150W-24V IP67

**06LL915AB0**

Driver elettronico 240W-24V IP67

Electronic driver 240W-24V IP67

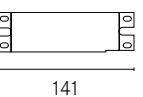
Elektronischer Driver 240W-24V IP67

**06TA902X0**

Driver elettronico 60W-24V IP66

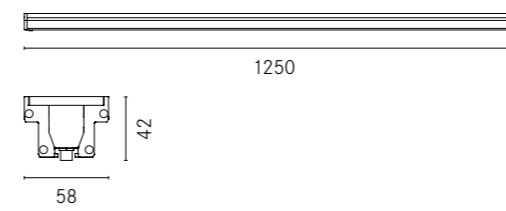
Electronic driver 60W-24V IP66

Elektronischer Driver 60W-24V IP66





Trail ceiling 1250



Max weight: 6 kg

Trail 1250

06TR3

Led (source flux)

1800lm 19W

H23

3600lm 37W

Q43

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

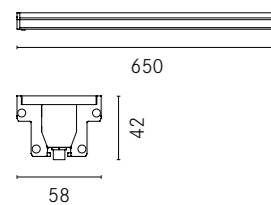
7

Colors

Natural anodized aluminium

J

Trail ceiling 650



Max weight: 3 kg

Trail 650

06TR2

Led (source flux)

900lm 9W

D63

1800lm 19W

H23

K

4000

0

3000

9

Optics

U-D

3

S

5

AS

7

Colors

Natural anodized aluminium

J

Esempio Example Beispiel

06TR2	D63	0	3	J
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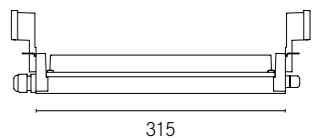
Accessori Accessories Zubehör

06OT988A0 - Trail 650 mm / 06OT989A0 - Trail 1250 mm

Box cablato per attacco parete / soffitto IP65

IP65 wiring box for wall / ceiling installation

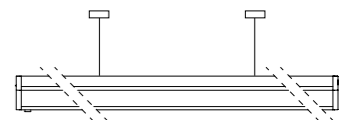
IP65 Verkabelungseinheit für Wand / Deckeinstallation

**06TR986A0 - RAL9006**

Sistema di sospensione a soffitto L 1,5m con cavo, connettori e muffola

System for ceiling suspended installation L 1.5m with cable, connectors and junction box

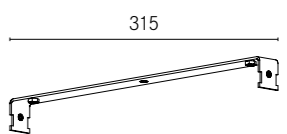
Deckeaufhängungssystem L 1,5m komplett mit Kabel, Verbinder und Verbindungsmuffe

**06TR987A0 - RAL9006**

Staffe fissaggio, driver remoto

Brackets for ceiling fastening

Ausleger für Deckeninstallation

**06LL914AB0**

Driver elettronico 150W-24V IP67

Electronic driver 150W-24V IP67

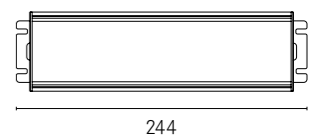
Elektronischer Driver 150W-24V IP67

**06LL915AB0**

Driver elettronico 240W-24V IP67

Electronic driver 240W-24V IP67

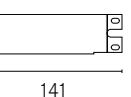
Elektronischer Driver 240W-24V IP67

**06TA902X0**

Driver elettronico 60W-24V IP66

Electronic driver 60W-24V IP66

Elektronischer Driver 60W-24V IP66

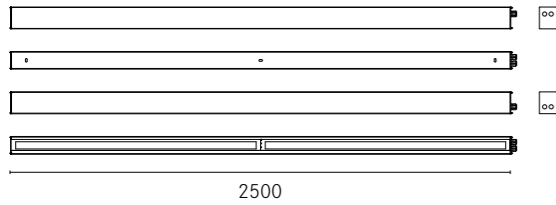


Trail Solid line

220 240V	50 60Hz	24Vdc	CL II CL III	IP67	IK08
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Trail solid line 2500



Max weight: 10kg

Trail 2500	
06TR6	
Led (source flux)	
1800lm 19W	3600lm 37W
H23	Q43
K	
4000	3000
0	9
Optics	
U-D	
3	
Colors	
Natural anodized aluminium	
J	

Esempio *Example* Beispiel

06TR6	H23	0	3	J
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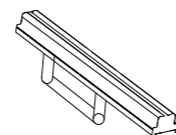
Accessori Accessories Zubehör

06TR980J0

Dima di fissaggio estruso L 2500mm

Extruded fastening jig L 2500mm

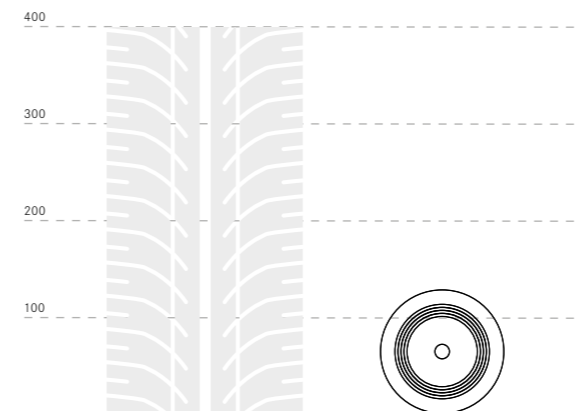
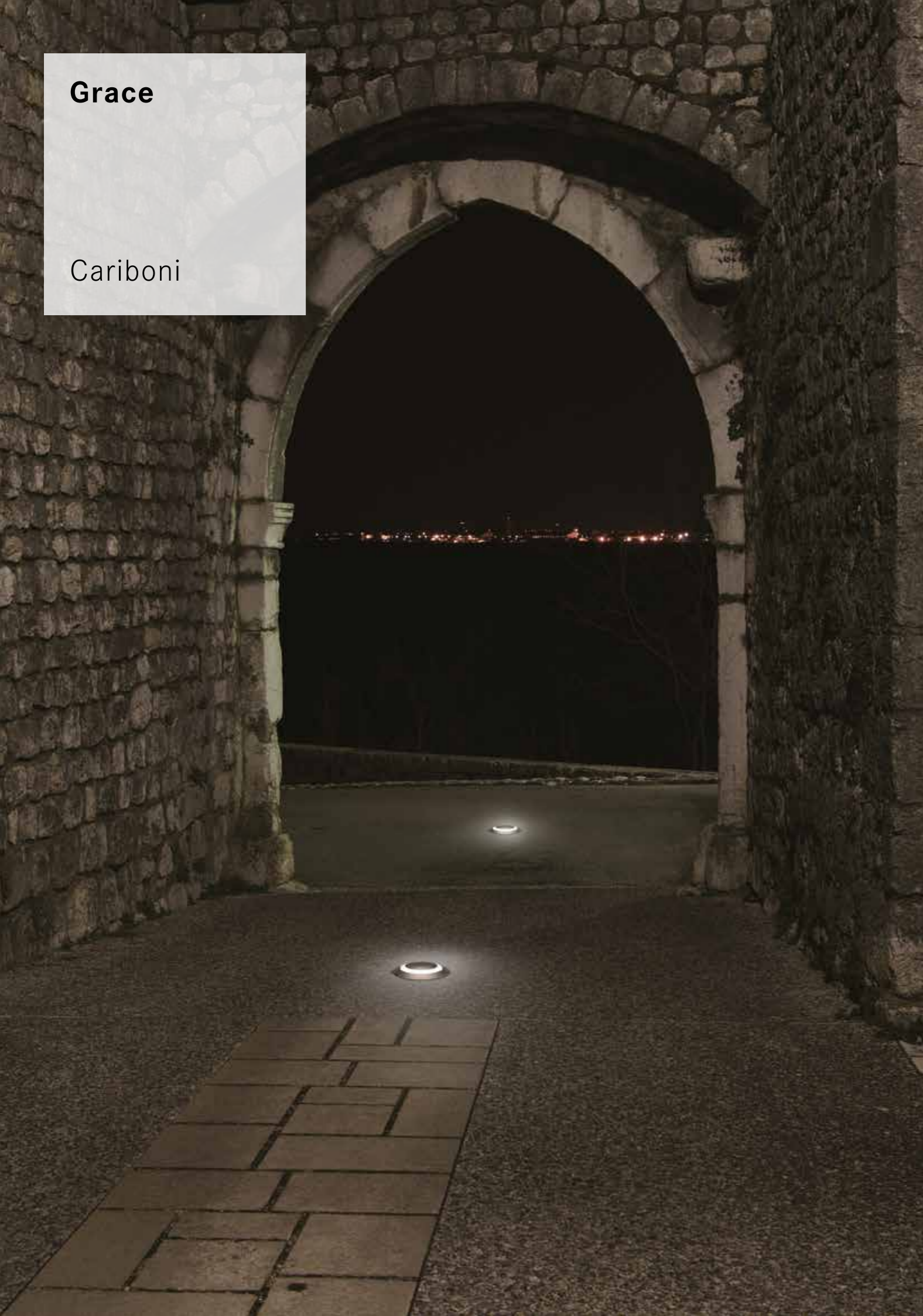
Extrudierte Befestigungsvorrichtung L 2500mm



Trail SM

Grace

Cariboni





24Vdc	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL III	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP67	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK10	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sandblasted stainless steel AISI 316	Colori <i>Colours</i> Farben
To be ordered separately	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

Installazione: terra (carrabile), parete

Installation: ground (drive over), wall

Installation: Bodenleuchte (Befahrbare), wand



200-528 lm

Flusso sorgente
Source flux
Lichtstrom der Lichtquelle

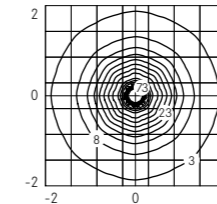
**4000K
3000K**

Temperatura colore
Colour temperature
Farbtemperatur

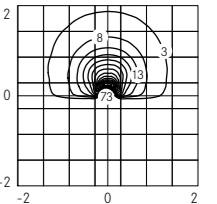
≥80

Indice di resa cromatica (CRI)
Colour rendering index (CRI)
Farbwiedergabe-Index (CRI)

360°



180°



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52



Schermatura sorgenti
Hidden Light Emitting Surfaces
Abschirmung der Lichtquellen



Ta -30° C +50° C
Ta -30° C +50° C
Ta -30° C +50° C



Elevata resistenza agli urti (IK09-IK10)
Maximum impact resistance (IK09-IK10)
Maximum Stoßfestigkeitsgrad (IK09-IK10)



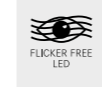
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Separabilità delle componenti
Separable components
Trennbare Komponenten



Flicker free
Flicker free
Flicker free



Sistema acqua stop
Water stop system
Wasserstopp-System



Calpestabile
Walk Over
Begehbar



Carrabile
Drive Over
Befahrbare



Absenza di viti a vista
No visible screws
Fehlen sichtbarer Schrauben



Dimensioni incasso ridotte
Reduced recessed dimensions
Reduzierte Einbaumaße



No vetro
No glass
Kein Glas



Robustezza meccanica e resistenza termica

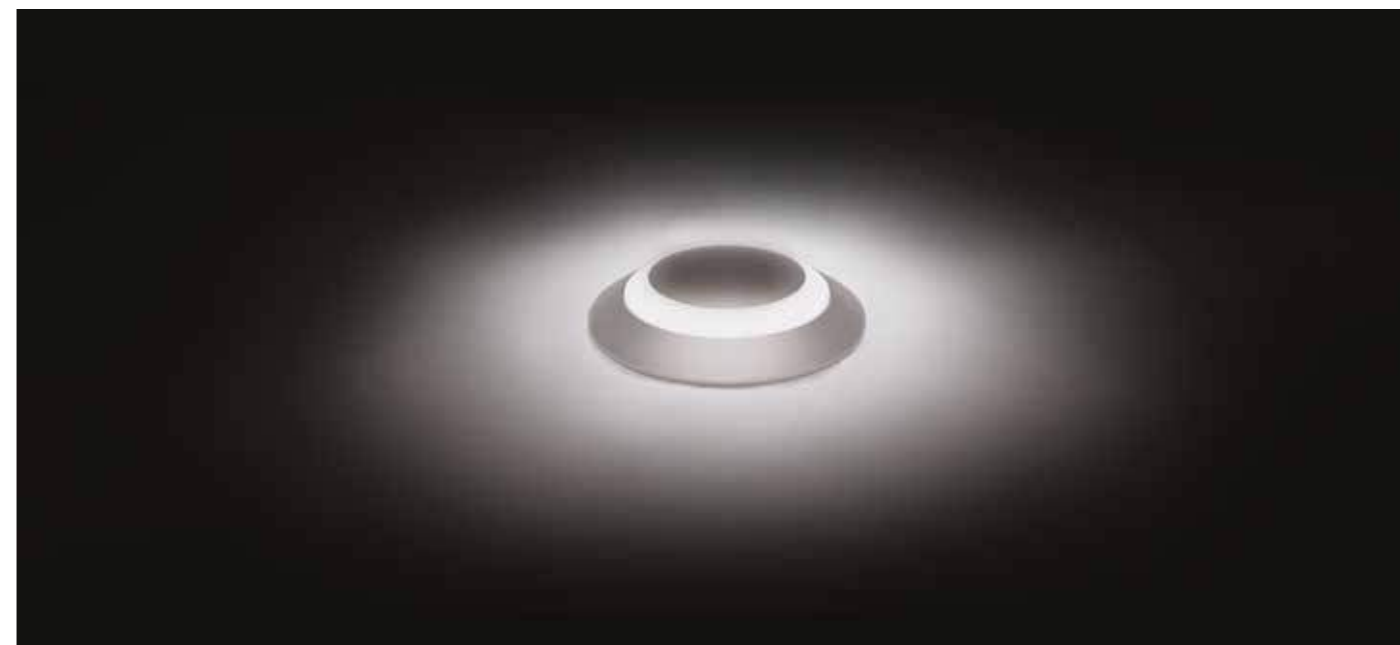
L'emissione radiale continua è permessa da una lente TIR (Total internal reflection) realizzata in Ultra-Clear LSR (Liquid Silicone Rubber). La scelta del materiale consente un ottimo rendimento in termini di lm/W, un maggiore controllo ottico per la riduzione delle emissioni di luce verso l'alto ed un'elevata durata di vita del prodotto. Per la lente è stato scelto LSR in 80 shore per garantire la massima robustezza meccanica e resistenza termica.

Mechanical robustness and thermal resistance

Uninterrupted radial emission is made possible by a TIR (Total Internal Reflection) lens made from Ultra-Clear LSR (Liquid Silicone Rubber). The use of this material allows for excellent performance in terms of lm/W, increased optical control for the reduction of vertical light emission, and an elevated life-span for the product. For the lens, LSR in 80 shore has been chosen, guaranteeing the highest levels of mechanical robustness and thermal resistance.

Mechanische Robustheit und thermische Beständigkeit

Die kontinuierliche radiale Ausstrahlung wird durch eine TIR-Linse (Total internal reflection) aus Ultra-Clear LSR (Liquid Silicone Rubber) ermöglicht. Die Wahl des Materials ermöglicht eine hervorragende Leistung in Bezug auf lm/W, eine größere optische Kontrolle zur Verringerung der Lichtausstrahlungen nach oben und eine hohe Lebensdauer des Produkts. Für die Linse wurde LSR mit 80-Shore-Härte gewählt, um die maximale mechanische Robustheit und thermische Beständigkeit zu gewährleisten.



Emissione luminosa radiale senza ombre

Grace è una radenza carrabile compatta ed elegante disponibile in due taglie e con due diverse aperture di fascio luminoso: 360° e 180°. L'essenzialità delle geometrie viene garantita in entrambe le versioni che conservano lo stesso aspetto pur variando le emissioni luminose per offrire coerenza formale al progettista che desidera installare distribuzioni luminose in uno stesso spazio. La versione 360°, essendo completamente libera da sostegni, garantisce un'emissione luminosa continua senza ombre.

Radial Shadow-free Light Emission

Grace is a compact and elegant drive-over grazer available in two sizes and with two widths of light beam: 360° and 180°. The simplicity of the design is guaranteed in both versions, which have the same shape, while varying the emissions of light, offering a coherence in form for designers wishing to install differing forms of light distribution in the same area. As it is completely free of supports, the 360° version guarantees uninterrupted, shadow-free light emission.

Radiale Lichtausstrahlung ohne Schatten

Grace ist ein kompaktes und elegantes befahrbares Streiflichtsystem, das in zwei Größen und mit zwei verschiedenen Lichtbündelöffnungen erhältlich ist: 360° und 180°. Die Wesentlichkeit der Geometrien wird in beiden Versionen gewährleistet, die das gleiche Aussehen behalten, obwohl sie die Lichtausstrahlungen variieren, um dem Entwerfer, der Lichtverteilungen im selben Raum installieren möchte, formale Kohärenz zu bieten. Die 360°-Version gewährleistet eine kontinuierliche Lichtausstrahlung ohne Schatten, da sie komplett frei von Trägern ist.

Potenza alimentazione per collegamento su unico cavo 2x 1,5mmq (in Watt)

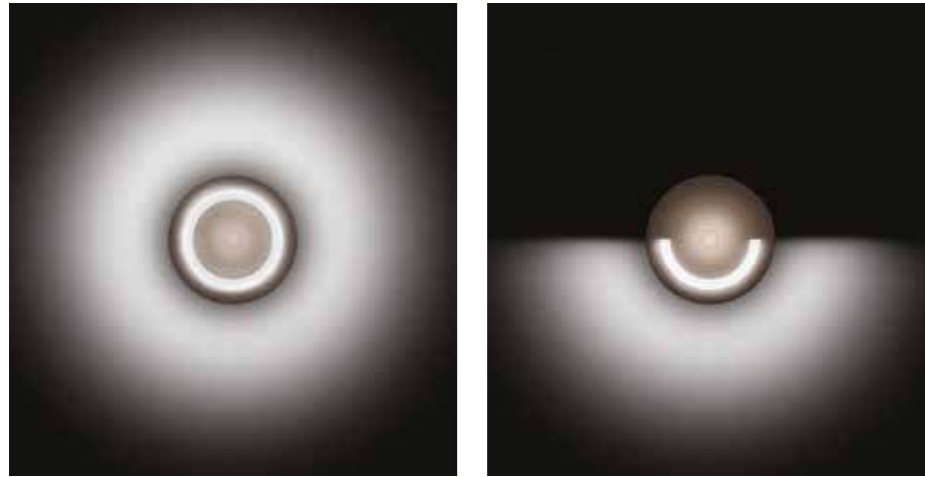
Power supply for the connection to a single cable 2x 1.5mmq (in Watt)

Gesamtleistung für die Verbindung zu einem einzelmem Kabel 2x 1,5mmq (in Watt)

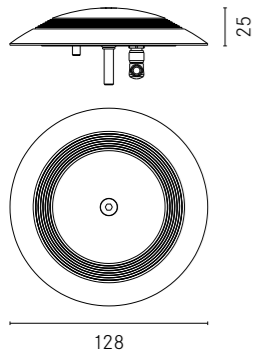
		Grace 180° High																									
		lunghezza spezzone dorsale - dorsal length - Rückenlänge [m]																									
	N	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	
apparecchi impianto - fittings - Apparate	1	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	
	2	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,4	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
	3	8,1	8,1	8,1	8,1	8,1	8,1	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,3	8,3	8,3	8,3	8,3	8,3	8,3	8,3
	4	10,8	10,8	10,9	10,9	10,9	10,9	10,9	10,9	11,0	11,0	11,0	11,0	11,0	11,0	11,1	11,1	11,1	11,1	11,1	11,1	11,2	11,2	11,2	11,2	11,2	11,2
	5	13,5	13,6	13,6	13,6	13,7	13,7	13,7	13,8	13,8	13,8	13,8	13,9	13,9	13,9	14,0	14,0	14,0	14,1	14,1	14,1	14,2	14,2	14,2	14,3	14,3	14,3
	6	16,3	16,3	16,4	16,4	16,5	16,5	16,6	16,6	16,7	16,7	16,8	16,8	16,9	16,9	17,0	17,0	17,1	17,1	17,2	17,2	17,3	17,3	17,4	17,4	17,5	17,5
	7	19,0	19,1	19,1	19,2	19,3	19,4	19,5	19,5	19,6	19,7	19,8	19,9	19,9	20,0	20,1	20,2	20,3	20,3	20,4	20,5	20,6	20,7	20,7	20,8	20,8	20,9
	8	21,7	21,8	22,0	22,1	22,2	22,3	22,4	22,5	22,6	22,8	22,9	23,0	23,1	23,2	23,3	23,5	23,6	23,7	23,8	23,9	24,0	24,1	24,3	24,4	24,5	24,5
	9	24,5	24,6	24,8	25,0	25,1	25,3	25,4	25,6	25,8	25,9	26,1	26,2	26,4	26,6	26,7	26,9	27,1	27,2	27,4	27,5	27,7	27,9	28,0	28,2	28,3	28,3
	10	27,2	27,4	27,7	27,9	28,1	28,3	28,5	28,8	29,0	29,2	29,4	29,6	29,8	30,1	30,3	30,5	30,7	30,9	31,2	31,4	31,6	31,8	32,0	32,2	32,5	32,5
	11	30,0	30,3	30,6	30,9	31,1	31,4	31,7	32,0	32,3	32,6	32,9	33,1	33,4	33,7	34,0	34,3	34,6	34,9	35,2	35,4	35,7	36,0	36,3	36,6	36,9	36,9
	12	32,8	33,1	33,5	33,9	34,2	34,6	35,0	35,4	35,7	36,1	36,5	36,8	37,2	37,6	37,9	38,3	38,7	39,0	39,4	39,8	40,1	40,5	40,9	41,3	41,6	41,6
	13	35,6	36,0	36,5	37,0	37,4	37,9	38,4	38,8	39,3	39,8	40,2	40,7	41,1	41,6	42,1	42,5	43,0	43,5	43,9	44,4	44,9	45,3	45,8	46,3	46,7	46,7
	14	38,4	39,0	39,5	40,1	40,7	41,3	41,8	42,4	43,0	43,6	44,1	44,7	45,3	45,9	46,4	47,0	47,6	48,2	48,7	49,3	49,9	50,5	51,0	51,6	52,2	52,2
	15	41,2	41,9	42,6	43,3	44,0	44,7	45,4	46,1	46,8	47,5	48,2	48,9	49,6	50,4	51,1	51,8	52,5	53,2	53,9	54,6	55,3	56,0	56,7	57,4	58,1	58,1
	16	44,1	44,9	45,8	46,6	47,5	48,3	49,1	50,0	50,8	51,7	52,5	53,4	54,2	55,1	55,9	56,8	57,6	58,5	59,3	60,2	61,0	61,9	62,7	63,6	64,4	64,4
	17	46,9	47,9	48,9	50,0	51,0	52,0	53,0	54,0	55,0	56,0	57,0	58,1	59,1	60,1	61,1	62,1	63,1	64,1	65,1	66,2	67,2	68,2	69,2	70,2	71,2	71,2
	18	49,8	51,0	52,2	53,4	54,6	55,8	57,0	58,2	59,4	60,6	61,8	63,0	64,2	65,4	66,5	67,7	68,9	70,1	71,3	72,5	73,7	74,9	76,1	77,3	78,5	78,5
	19	52,7	54,1	55,5	56,9	58,3	59,7	61,1	62,5	63,9	65,3	66,7	68,1	69,5	70,9	72,3	73,7	75,1	76,5	77,9	79,3	80,7	82,1	83,5	84,9	86,3	86,3
	20	55,6	57,3	58,9	60,5	62,1	63,8	65,4	67,0	68,7	70,3	71,9	73,5	75,2	76,8	78,4	80,0	81,7	83,3	84,9	86,6	88,2	89,8	91,4	93,1	94,7	94,7

		Grace 360° High																									
		lunghezza spezzone dorsale - dorsal length - Rückenlänge [m]																									
	N	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	
apparecchi impianto - fittings - Apparate	1	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,8	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	
	2	15,6	15,7	15,7	15,7	15,7	15,8	15,8	15,8	15,8	15,8	15,9	15,9	15,9	16,0	16,0	16,0	16,0	16,0	16,1	16,1	16,1	16,1	16,2	16,2	16,2	16,2
	3	23,5	23,5	23,6	23,7	23,7	23,8	23,9	23,9	24,0	24,1	24,1	24,2	24,3	24,3	24,4	24,5	24,5	24,6	24,7	24,7	24,8	24,9	24,9	25,0	25,1	25,1
	4	31,4	31,5	31,6	31,8	31,9	32,1	32,2	32,4	32,5	32,6	32,8	32,9	33,1	33,2	33,3	33,5	33,6	33,8	33,9	34,1	34,2	34,3	34,5	34,6	34,8	34,8
	5	39,3	39,5	39,8	40,1	40,3	40,6	40,8	41,1	41,4	41,6	41,9	42,1	42,4	42,7	42,9	43,2	43,4	43,7	44,0	44,2	44,5	44,7	45,0	45,3	45,5	45,5
	6	47,3	47,7	48,1	48,6	49,0	49,4	49,8	50,3	50,7	51,1	51,6	52,0	52,4	52,9	53,3	53,7	54,1	54,6	55,0	55,4	55,9	56,3	56,7	57,2	57,6	57,6
	7	55,3	56,0	56,6	57,3	57,9	58,6	59,3	59,9	60,6	61,3	61,9	62,6	63,2	63,9	64,6	65,2	65,9	66,6	67,2	67,9	68,5	69,2	69,9	70,5	71,2	71,2
	8	63,4	64,4	65,3	66,3	67,3	68,2	69,2	70,2	71,1	72,1	73,1	74,0	75,0	76,0	76,9	77,9	78,8	79,8	80,8	81,7	82,7	83,7	84,6	85,6	86,6	86,6
	9	71,6	72,9	74,3	75,6	77,0	78,3	79,7	81,0	82,4	83,7	85,1	86,4	87,8	89,1	90,5	91,8	93,2	94,5	95,9	97,2	98,6	99,9	101,3	102,6	104,0	104,0
	10	79,9	81,7	83,5	85,3	87,2	89,0	90,8	92,6	94,4	96,3	98,1	99,9	101,7	103,6	105,4	107,2	109,0	110,8	112,7	114,5	116,3	118,1	119,9	121,8	123,6	123,6
	11	88,2	90,6	93,0	95,4	97,8	100,2	102,6	105,0	107,4	109,8	112,2	114,6	117,0	119,4	121,8	124,2	126,6	129,0	131,3	133,7	136,1	138,5	140,9	143,3	145,7	145,7
	12	96,7	99,8	102,9	106,0	109,0	112,1	115,2	118,3	121,3	124,4	127,5	130,6	133,6	136,7	139,8	142,9	145,9	149,0	152,1	155,2	158,2	161,3	164,4	167,5	170,6	170,6
	13	105,3	109,2	113,1	117,0	120,8	124,7	128,6	132,5	136,3	140,2	144,1	148,0	151,8	155,7	159,6	163,5	167,3	171,2	175,1	179,0	182,8	186,7	190,6	194,5	198,3	198,3
	14	114,1	118,9	123,7	128,5	133,3	138,1	142,9	147,7	152,5	157,3	162,1	166,9	171,7	176,5	181,3	186,1	190,9	195,7	200,5	205,3	210,1	214,9	219,7	224,5	229,3	229,3
	15	122,9	128,8	134,7	140,5	146,4	152,3	158,1	164,0	169,9	175,7	181,6	187,5	193,4	199,2	205,1	211,0	216,8	222,7	228,6	234,4	240,3	246,2	252,0	257,9	263,8	263,8
	16	132,0	139,0	146,1	153,2	160,3	167,4	174,4	181,5	188,6	195,7	202,7	209,8	216,9	224,0	231,1	238,1	245,2	252,3	259,4	266,5	273,5	280,6	287,7	294,8	301,9	301,9
	17	141,1	149,6	158,0	166,5	174,9	183,4	191,8	200,3	208,7	217,1	225,6	234,0	242,5	250,9	259,4	267,8	276,3	284,7	293,2	301,6	310,1	318,5	327,0	335,4	343,8	343,8
	18	150,5	160,4	170,4	180,4	190,4	200,4	210,3	220,3	230,3	240,3	250,3	260,2	270,2	280,2	290,2	300,2	310,1	320,1	330,1	340,1	350,1	360,0	370,0	380,0	390,0	390,0
	19	160,0	171,7	183,4	195,0	206,7	218,4	230,1	241,8	253,5	265,2	276,9	288,5	300,2	311,9	323,6	335,3	347,0	358,7	370,4	382,1	393,7	405,4	417,1	428,8	440,5	440,5
	20	169,7	183,3	196,8	210,4	224,0	237,6	251,2	264,7	278,3	291,9	305,5	319,1	332,6	346,2	359,8	373,4	387,0	400,5	414,1	427,7	441,3	454,9	468,5	482,0	495,6	495,6

DRIVER:	power [W]
24V-10W	10
24V-60W	60
24V-150W	150
not supported	> 150



Grace razer drive over recessed with cable



Max weight: 1 kg

Grace	
06GC1	
Led (source flux) Ref. @4000K AS-D 180° Ref. @4000K RS-D 360°	
210lm 3W A13	528lm 7W A13
Led (source flux) Ref. @3000K AS-D 180° Ref. @3000K RS-D 360°	
200lm 3W A13	495lm 7W A13
K	
4000 0	3000 9
Optics	
AS-D 180° A4	RS-D 360° A3
Colors	
Sandblasted stainless steel AISI 316 XS	

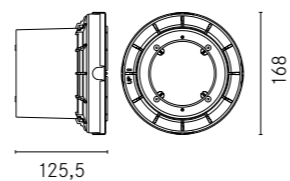
Esempio Example Beispiel

06GC1	A13	0	9	A4	XS
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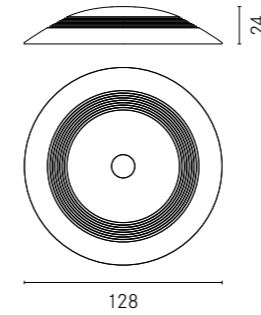
Accessori Accessories Zubehör Grace Razer drive over recessed

06GC901B0

Controcassa carrabile
Drive over recessed housing
Befahrbare Einbaugehäuse



Grace razer over recessed with cable



Max weight: 1 kg

Grace	
06GC1	
Led (source flux) Ref. @4000K AS-D 180° Ref. @4000K RS-D 360°	
210lm 3W A13	528lm 7W A13
Led (source flux) Ref. @3000K AS-D 180° Ref. @3000K RS-D 360°	
200lm 3W A13	495lm 7W A13
K	
4000 0	3000 9
Optics	
AS-D 180° A4	RS-D 360° A3
Colors	
Sandblasted stainless steel AISI 316 XS	

Accessori Accessories Zubehör Grace

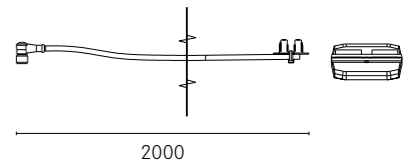
06GC902X0

B165 Connettore 2 poli IP68 Grace calpestabile
B165 2-pole connector IP68 Grace razer over
B165 2-poliger Stecker IP68 Begehbare Grace



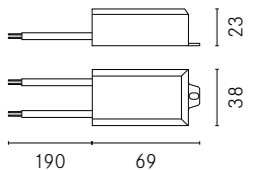
06CH905X0

B163 Kit entra/esci cavo 2m 24V~ con muffola
B163 Kit in/out cable 2m 24V~ with junction box
B163 Kit in/out Kabel 2m 24V~ mit Verbindungsmuffe



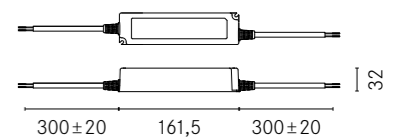
06CH903X0

Driver elettronico 10W-24V IP67
Electronic driver 10W-24V IP67
Elektronischer Driver 10W-24V IP67



06CH904X0

Driver elettronico 60W-24V IP67
Electronic driver 60W-24V IP67
Elektronischer Driver 60W-24V IP67



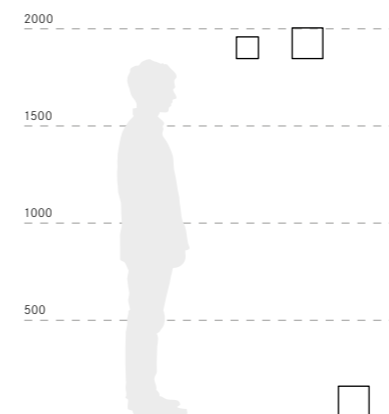
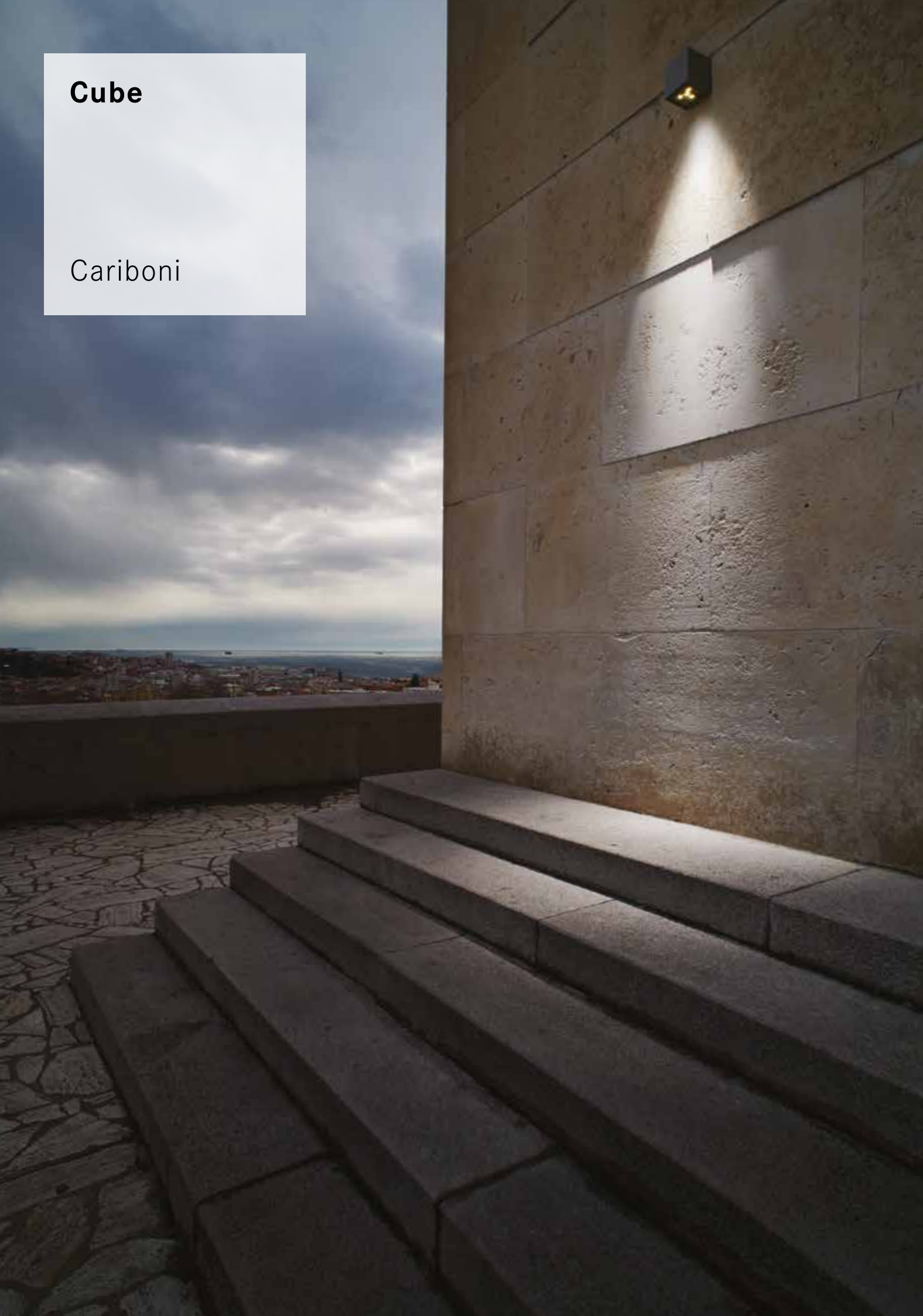
06LL914AB0

Driver elettronico 150W-24V IP67
Electronic driver 150W-24V IP67
Elektronischer Driver 150W-24V IP67



Cube

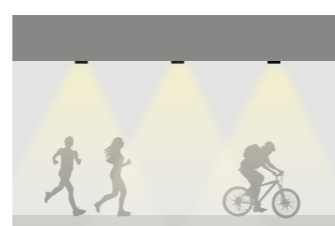
Cariboni





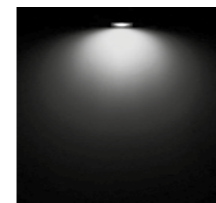
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10° C +45° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

Installazione: parete, soffitto, terra
Installation: wall, ceiling, ground
Installation: Wand, Decke, Boden



650-1560lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

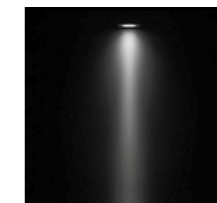
U-D 80°



Small Ultra-wide beam

H (m)	Ø (m)	Em (lux)
1	2	68
2	4	17
3	6	8
4	8	4
5	10	3

C 8°



Small Narrow beam

H (m)	Ø (m)	Em (lux)
1	0.2	5641
2	0.4	1410
3	0.7	627
4	0.9	353
5	1.1	223

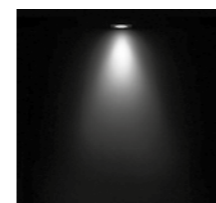
Medium Ultra-wide beam

H (m)	Ø (m)	Em (lux)
1	2	149
2	4	37
3	6	17
4	8	9
5	10	6

Medium Narrow beam

H (m)	Ø (m)	Em (lux)
1	0.2	12684
2	0.4	3171
3	0.7	1409
4	0.9	793
5	1.1	507

D 40°



Small Wide beam

H (m)	Ø (m)	Em (lux)
1	0.7	707
2	1.2	177
3	2	79
4	2.6	44
5	3.4	28

Medium Wide beam

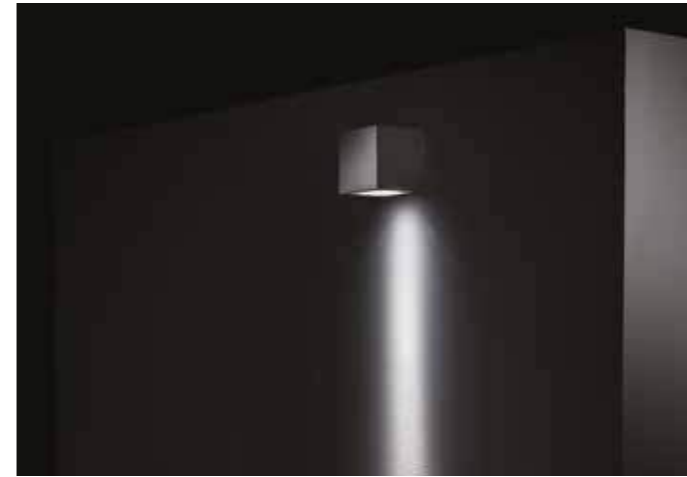
H (m)	Ø (m)	Em (lux)
1	0.7	1589
2	1.2	397
3	2	177
4	2.6	99
5	3.4	64



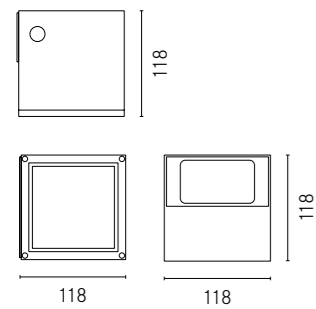
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Cube wall small



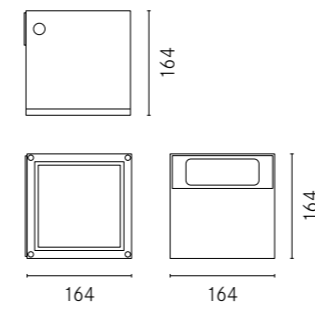
Max weight: 1.5kg
 Max exposed surface: 0.012m²
 Lateral exposed surface: 0.012m²

Cube S			
06LC1			
Led (source flux):			
Ref. @500mA @4000K		Ref. @500mA @3000K	
695lm 6W	650lm 6W		
A4	A4		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J

Esempio Example Beispiel

06LC1	A4	4	0	4	C
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Cube wall medium

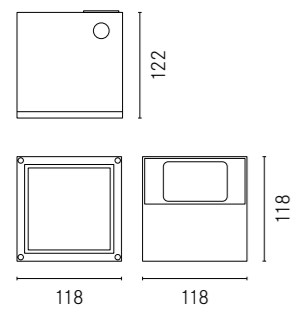


Max weight: 3kg
 Max exposed surface: 0.025m²
 Lateral exposed surface: 0.025m²

Cube M			
06LC3			
Led (source flux):			
Ref. @500mA @4000K		Ref. @500mA @3000K	
1560lm 14W	1460lm 14W		
A9	A9		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J



Cube ceiling small



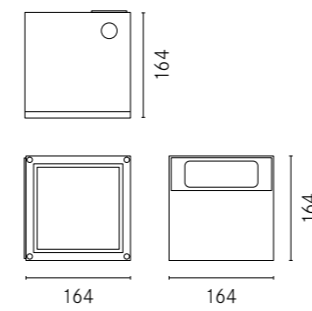
Max weight: 1.5kg
 Max exposed surface: 0.012m²
 Lateral exposed surface: 0.012m²

Cube S			
06LC2			
Led (source flux):			
Ref. @500mA @4000K		Ref. @500mA @3000K	
695lm 6W	650lm 6W		
A4	A4		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J

Esempio Example Beispiel

06LC2	A4	4	0	4	D
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Cube ceiling medium

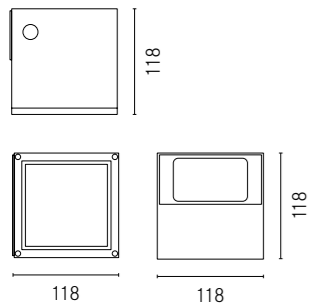


Max weight: 3kg
 Max exposed surface: 0.025m²
 Lateral exposed surface: 0.025m²

Cube M			
06LC4			
Led (source flux):			
Ref. @500mA @4000K		Ref. @500mA @3000K	
1560lm 14W	1460lm 14W		
A9	A9		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J



Cube flood small



Max weight: 1.5kg
 Max exposed surface: 0.012m²
 Lateral exposed surface: 0.012m²

Cube S			
06LC1			
Led (source flux): Ref. @500mA @4000K Ref. @500mA @3000K			
695lm 6W	650lm 6W		
A4	A4		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J

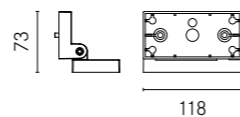
Esempio Example Beispiel

06LC1	A4	4	0	4	C
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Accessori Accessories Zubehör Cube small

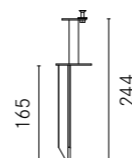
06LC1901A - RAL9006 / 06LC1901C - Sablé100 / 06LC1901D - RAL9003

Snodo per fissaggio a parete
Articulated joint for wall-mounting
 Gelenk Für die Installation an der Wand

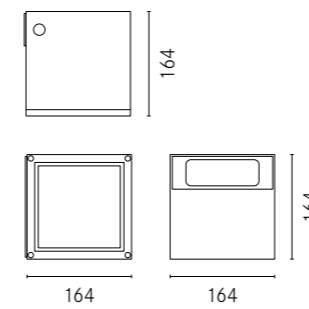


06LC900C0

Picchetto per interrimento
Spike for ground installation
 Erdspeiß für Bodeninstallation



Cube flood medium



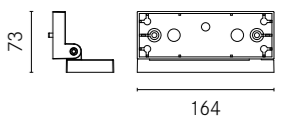
Max weight: 3kg
 Max exposed surface: 0.025m²
 Lateral exposed surface: 0.025m²

Cube M			
06LC3			
Led (source flux): Ref. @500mA @4000K Ref. @500mA @3000K			
1560lm 14W	1460lm 14W		
A9	A9		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 8°	D 40°	U-D 80°*	* Only for Sandblasted glass
4	5	9	
Colors			
RAL9006	Sablé100	RAL9003	Screen Sandblasted glass
A	C	D	J

Accessori Accessories Zubehör Cube medium

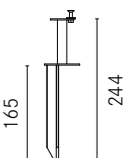
06LC2901A - RAL9006 / 06LC2901C - Sablé100 / 06LC2901D - RAL9003

Snodo per fissaggio a parete
Articulated joint for wall-mounting
 Gelenk Für die Installation an der Wand



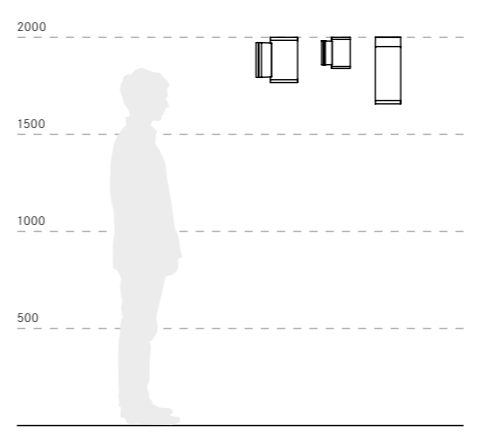
06LC901C0

Picchetto per interrimento
Spike for ground installation
 Erdspeiß für Bodeninstallation



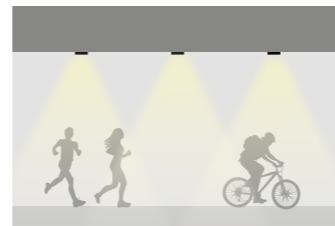
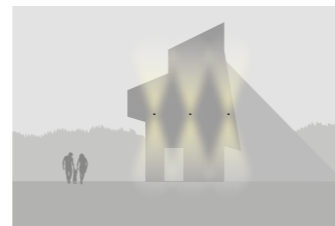
One4two

Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK05	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung

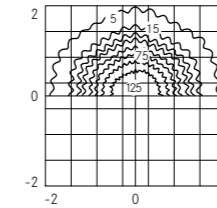


650-1560lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

D 40°



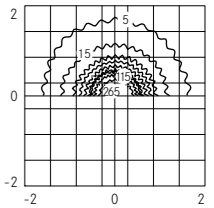
Wall small Wide beam (H= 3m)



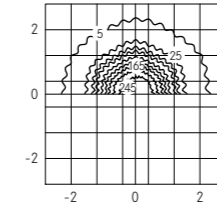
C 8°



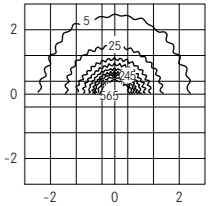
Wall small Narrow beam (H= 3m)



Wall medium Wide beam (H= 3m)



Wall medium Narrow beam (H= 3m)



Ceiling medium Wide beam

H (m)	Ø (m)	Em (lux)
1	0.7	1589
2	1.4	397
3	2	177
4	2.8	99
5	3.5	64

Ceiling medium Narrow beam

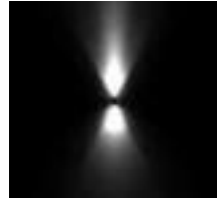
H (m)	Ø (m)	Em (lux)
1	0.2	12684
2	0.45	3171
3	0.65	1409
4	0.90	793
5	1.1	507

Installazione: bollard, lato palo, parete, soffitto

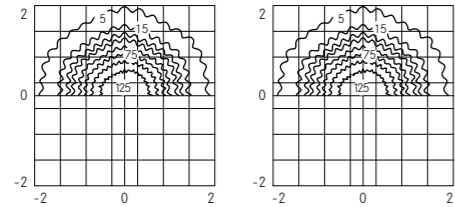
Installation: bollard, pole side, wall, ceiling

Installation: Pollerleuchte, Seitlicher Mastanschluss, Wand, Deckenleuchte

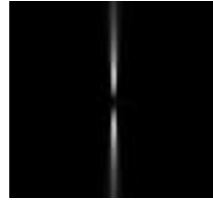
D 40° + D 40°



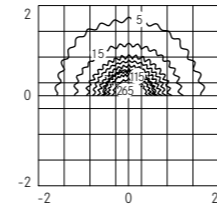
Wall small Wide beam (H= 3m)



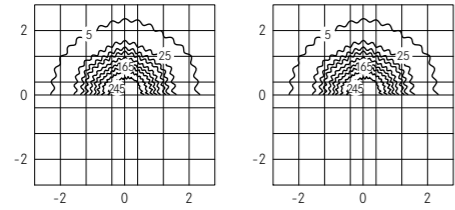
C 8° + C 8°



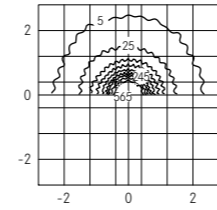
Wall small Narrow beam (H= 3m)



Wall medium Wide beam (H= 3m)



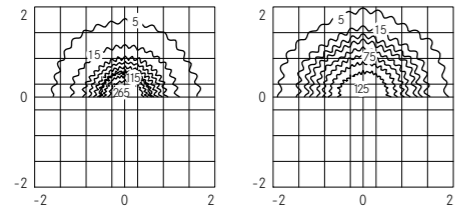
Wall medium Narrow beam (H= 3m)



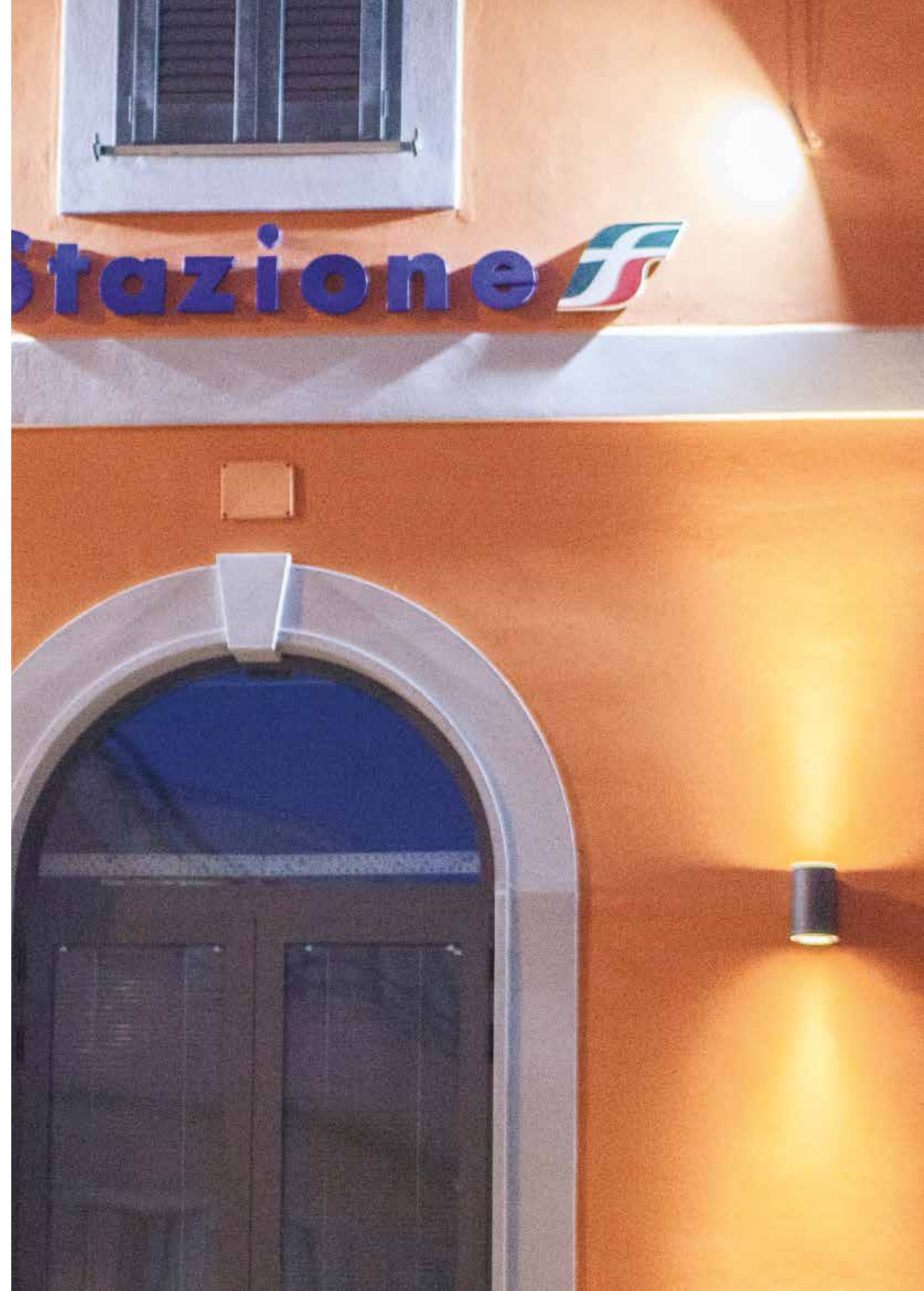
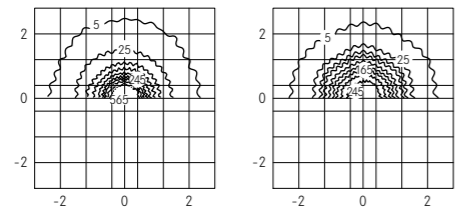
C 8° + D 40°



Wall small Narrow beam + Wide beam (H= 3m)

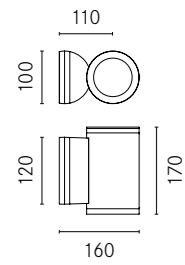


Wall medium Narrow beam + Wide beam (H= 3m)





One4two wall small



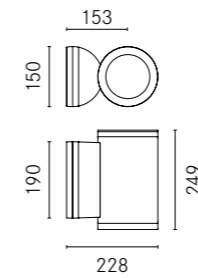
Max weight: 2kg
 Max exposed surface: 0.024m²
 Lateral exposed surface: 0.024m²

One4two S				
060T				
Emission				
Double	Mono			
1	2			
Led (source flux) Ref. @500mA @4000K				
695lm* 6W	2x695lm 12W**			
A4	A8			
	*Only Mono			
	**Only Double			
Led (source flux) Ref. @500mA @3000K				
650lm* 6W	2x650lm 12W**			
A4	A8			
	*Only Mono			
	**Only Double			
mA				
500				
4				
K				
4000	3000			
0	9			
Optics				
C	C + C	D	D + D	C + D
4	4	5	5	12
Colors				
RAL9006	Sablé100			
A	C			

Esempio Example Beispiel

060T	2	A4	4	0	4	C
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One4two wall medium



Max weight: 4kg
 Max exposed surface: 0.046m²
 Lateral exposed surface: 0.046m²

One4two M				
060T				
Emission				
Mono	Double			
4	3			
Led (source flux) Ref. @500mA @4000K				
1560lm* 14W	2x1560lm** 27W			
A9	B8			
	*Only Mono			
	**Only Double			
Led (source flux) Ref. @500mA @3000K				
1460lm* 14W	2x1460lm** 27W			
A9	B8			
	*Only Mono			
	**Only Double			
mA				
500				
4				
K				
4000	3000			
0	9			
Optics				
C	C + C	D	D + D	C + D
4	4	5	5	12
Colors				
RAL9006	Sablé100			
A	C			

One4two Ceiling

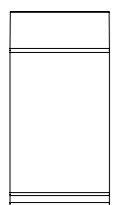
230 V 50Hz CL I IP65 IK05



One4two ceiling medium



110



291

150

Max weight: 4 kg

Max exposed surface: 0.046m²

Lateral exposed surface: 0.046m²

One4two M

060T5

Led (source flux):
Ref. @500mA @4000K Ref. @500mA @3000K

1560lm 14W

1460lm 14W

A9

A9

mA

500

4

K

4000

0

3000

9

Optics

C

4

D

5

Colors

RAL9006

A

Sablé100

C

Esempio *Example* Beispiel

060T5 A9 4 0 4 C

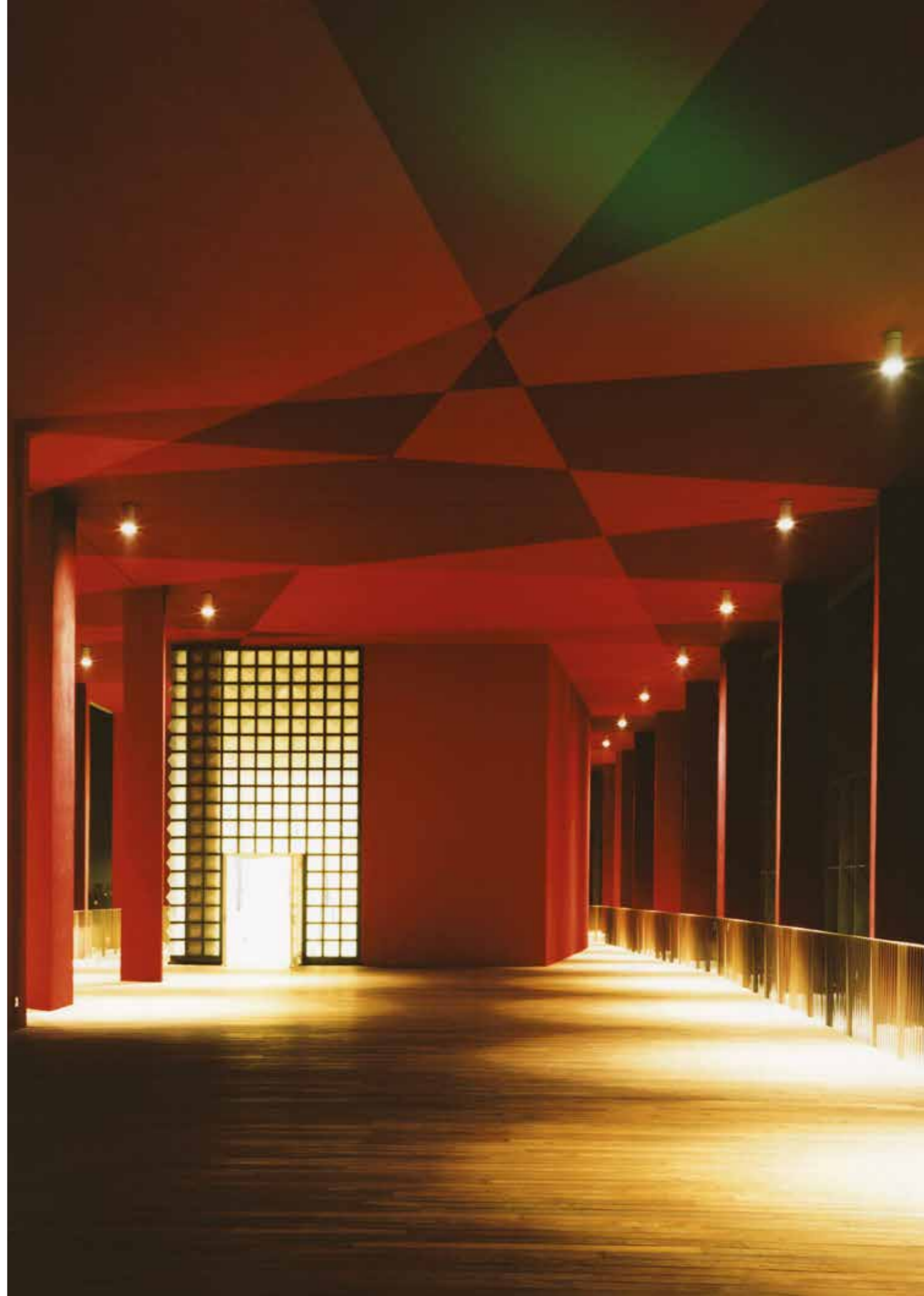
Accessori *Accessories* Zubehör

060T950A0 - RAL9006 / 060T950C0 - Sablé100

Tige L 1000mm

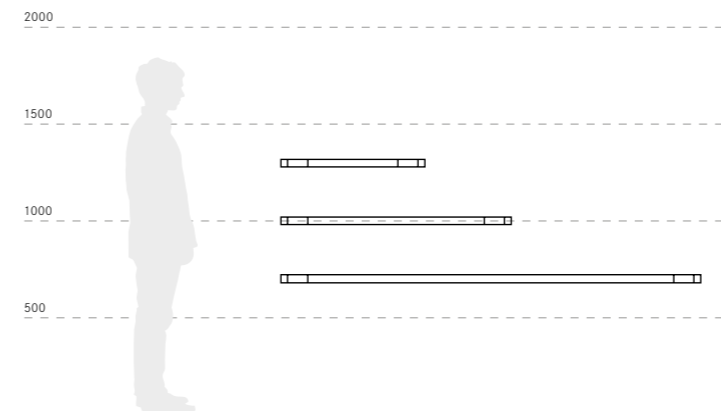


1000



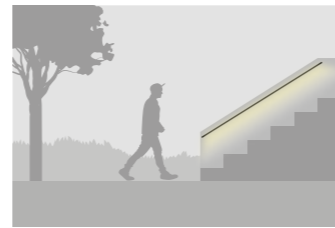
Banister

Cariboni





230V 50Hz individual module 24Vdc continuous line	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II individual module CL III handrail	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included for individual module Remote for continuous line	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
1-10V on request DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

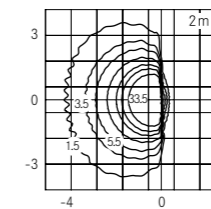
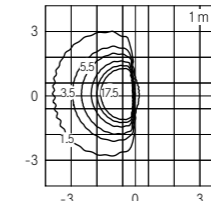
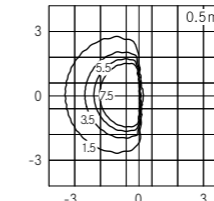


205-815lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

S-D 8°



Symmetrical wide beam



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 50

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 52

Installazione: singola, linea continua

Installation: single, continuous line

Installation: Einzel, Lichtbandsystem



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Separabilità delle componenti
Separable components
Trennbare Komponenten

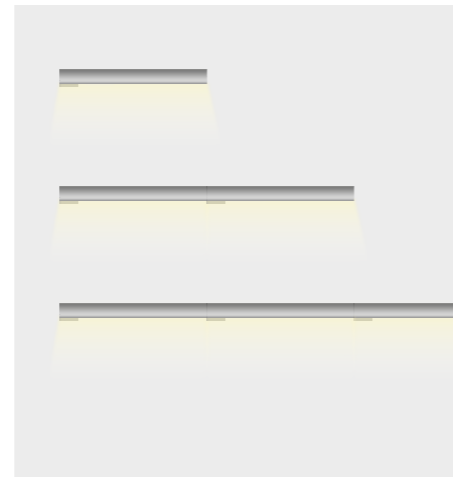


Assenza di viti a vista
No visible screws
Fehlen sichtbarer Schrauben



No vetro
No glass
Kein Glas

230V 24Vdc	50Hz	CL II CL III	IP67	IK05
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Installazione

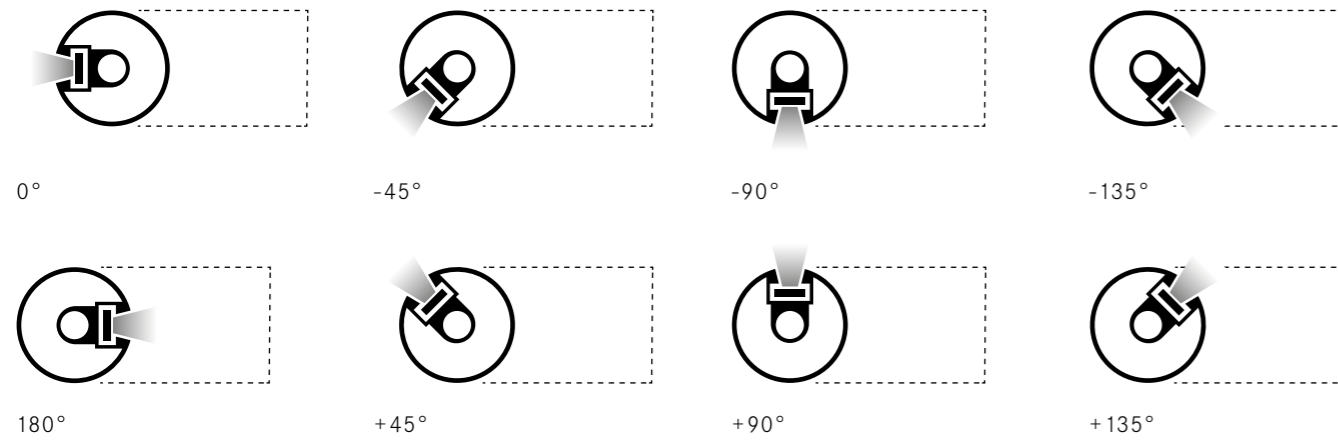
Installazione in modulo singolo o in fila continua. Possibilità di collegare fino a 20 m lineari in fila continua con un solo driver da 150W. Per applicazione corrimano, sia in versione singola che in fila continua, il prodotto è disponibile solo con driver remoto, quindi in classe di isolamento III.

Installation

Installation on a single module or in a continuous line and possibility of connecting up to 20 linear metres in a continuous line with a single 150W driver. For banister installation, both singularly and in a continuous line, the product is available with a remote driver only, thus with an insulation class III.

Installation

Installation als Einzelmodul oder Lichtbandsystem. Möglichkeit des Anschlusses von bis zu 20 m geraden Leuchtstoffröhren als Lichtbandsystem mit einem einzigen 150W-Driver. Für die Nutzung als Leuchtgeländer in den Versionen Einzelmodul oder Lichtbandsystem ist das Produkt nur mit Remote-Driver, also in Isolationsklasse III erhältlich.



Orientabilità

Ottica simmetrica diffondente orientabile su 360° con step da 45°.

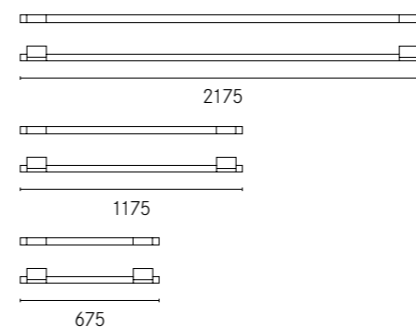
Orientability

Symmetrical light distribution optics orientable through 360° in steps of 45°.

Ausrichtbarkeit

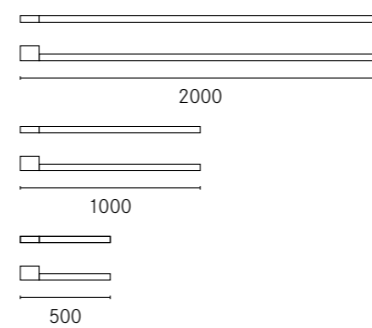
Breitstrahlende symmetrische Optik, ausrichtbar um 360° mit 45°-Step.

Banister wall individual module



Max weight: 0.45 kg
Max exposed surface: 0.90m²
Lateral exposed surface: 1.80m²

Banister wall continuous line



Max weight: 0.45 kg
Max exposed surface: 0.90m²
Lateral exposed surface: 1.80m²

Esempio Example Beispiel

06BA2	C45	9	9	C
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Banister single

06BA1		
Led (source flux)		
205lm 2.5W C45	410lm 5W F45	815lm 10W N45
K		
3000 9		
Optics		
S-D 9		
Colors		
Sablé100 C		

Banister continuous line

06BA2		
Led (source flux)		
205lm 2.5W C45	410lm 5W F45	815lm 10W N45
K		
3000 9		
Optics		
S-D 9		
Colors		
Sablé100 C		

Banister Wall

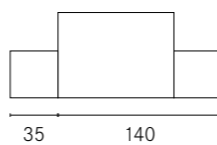
Accessori Accessories Zubehör

06BA900C0 - Sablé 100

Kit 2 terminali + 1 staffa per completamento fila continua

Kit with 2 terminal parts + bracket for the installation in a continuous line

Kit mit 2 Endstücke + 1 Bügel für Installation in einer Reihe

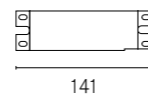


06TA902X0

Driver elettronico 60W-24V IP66

Electronic driver 60W-24V IP66

Elektronischer Driver 60W-24V IP66

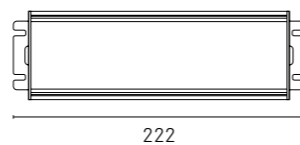


06LL914AB0

Driver elettronico 150W-24V IP67

Electronic driver 150W-24V IP67

Elektronischer Driver 150W-24V IP67

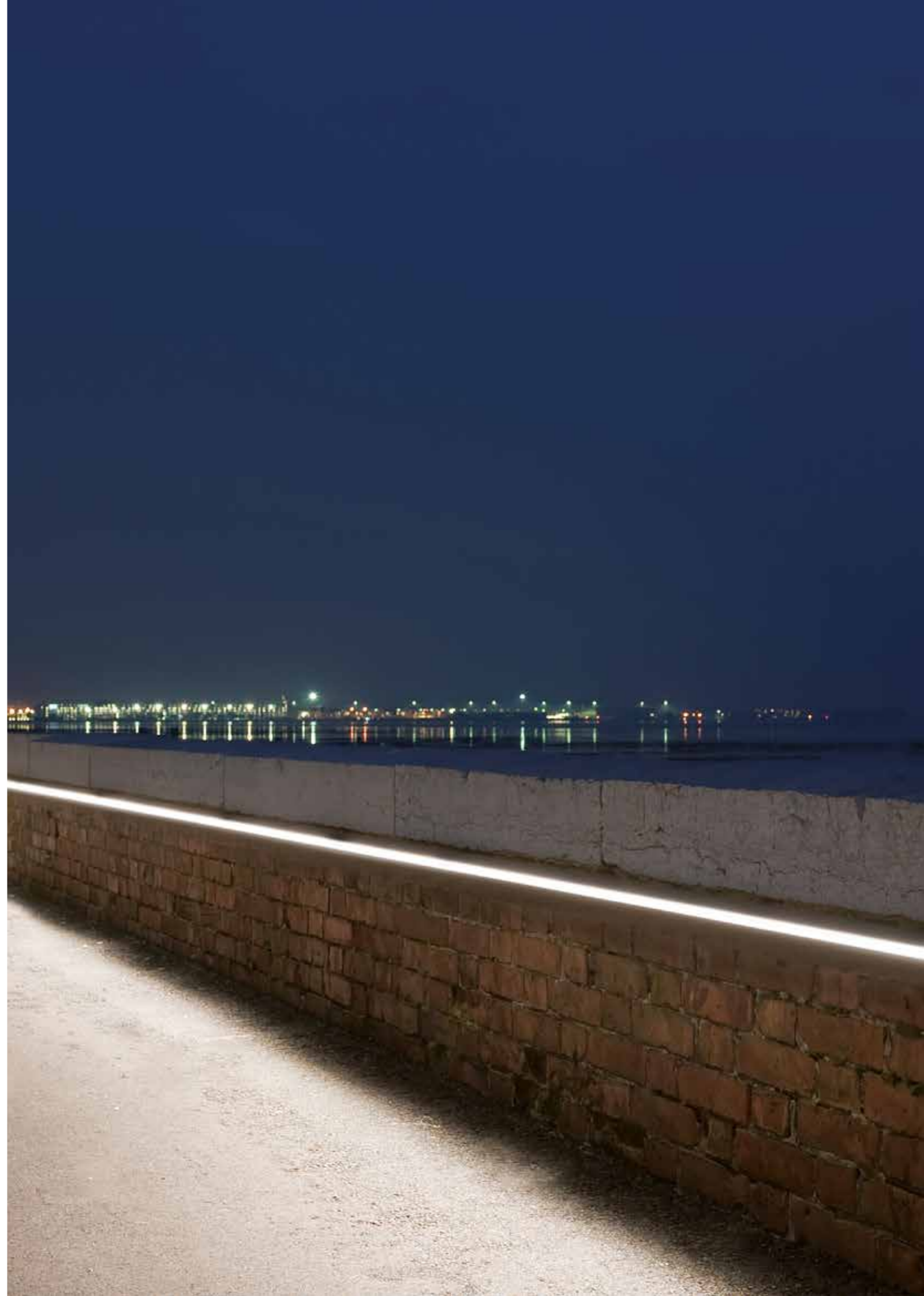


06LL915AB0

Driver elettronico 240W-24V IP67

Electronic driver 240W-24V IP67

Elektronischer Driver 240W-24V IP67



Spazi e percorsi urbani

Soluzioni di luce per l'illuminazione di spazi verdi, aree pedonali, piste ciclabili, percorsi veicolari, parcheggi e gallerie interne ed esterne alle città.

Urban spaces and walkways

Light solutions for green spaces, pedestrian areas, cycle paths, streets, car parks and tunnels inside and outside urban areas.

Urbane räume und wege

Lichtlösungen für die Beleuchtung von Grünbereichen, Fußgängerzonen, Fahrrad- und Verkehrswegen, Parkplätzen und Tunneln sowohl inner- als auch außerhalb der Stadt.





1



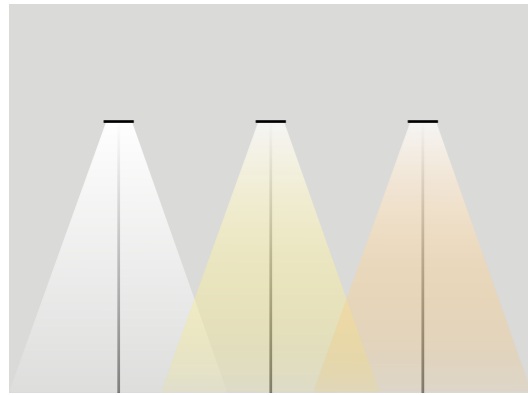
Qualità della Luce

1. Riduzione abbagliamento: Schermatura delle sorgenti

Il fenomeno dell'abbagliamento si presenta come una sensazione molto fastidiosa, in quanto l'occhio viene sollecitato da valori di luminosità che superano quelli limite di adattamento fisiologico (valori eccessivi di luminanza nel campo visivo o contrasti di luminanza troppo elevati). Nei casi in cui all'interno dell'area emittente risulta visibile il LED stesso (o una matrice di LED) l'abbagliamento provocabile è maggiore. Una soluzione per la limitazione dell'abbagliamento può essere la schermatura parziale o totale delle sorgenti LEDs. Un buon design del prodotto può consentire di schermare la sorgente senza compromettere le performance fotometriche (la distribuzione del solido fotometrico che influenza uniformità dell'illuminamento e numero di punti luce per area illuminata).

2. Temperatura di colore: nuova luce calda CCT 2200K

La temperatura colore è una misura della tonalità della luce bianca. Maggiore sarà la temperatura colore, più freddo apparirà il punto di bianco. I prodotti Cariboni sono disponibili in differenti temperature colore (Correlated Color Temperature: 2200K / 3000K / 4000K) per valorizzare al meglio ogni ambiente urbano. L'innovativa sorgente LED 2200K è particolarmente indicata per l'illuminazione di borghi, centri storici e turistici, materiali naturali come il legno, il mattone o la pietra e ovunque sia richiesta la sostituzione di prodotti con lampada tradizionale al sodio ad alta pressione. Le lampade a vapori di sodio hanno un'emissione di luce calda ma che non consente di distinguere in modo ottimale i colori avendo un CRI solitamente pari a 20. Le sorgenti LED ambra non sono luci bianche e alterano completamente i colori. Il vantaggio di una sorgente LED a 2200K è quello di avere un CRI70, che consente invece un'ottima percezione dei colori e una maggiore efficienza energetica.



2

2200K

Quality of Light

1. Glare reduction Screening sources

Glare is very bothersome because the eye is stressed by light values that exceed the physiological adaptation limits (excessive luminance values in the visual field or excessively high luminance contrasts). The glare effect is even greater when the LED (or a LED matrix) is visible in the emitting area. One solution to limit glare is to partially or totally screen LED sources. Good product design allows for the source to be screened without compromising the photometric performance (distribution of the photometric solid that affects the uniformity of the lighting and the number of light fixtures for the area being lit).

2. Colour temperature: CCT 2200K new warm light

The colour temperature is a measurement of the tonality of white light. The higher the colour temperature the colder the white spot will seem. Cariboni products are available in different colour temperatures (Correlated Colour Temperature: 2200K / 3000K / 4000K) to optimally enhance every urban space. The innovative 2200K LED light source is particularly suited for lighting hamlets, historic and tourist centres, natural materials such as wood, brick or stone and wherever there is the need to replace traditional high pressure sodium lights. Sodium vapour lamps have a warm light emission but, with a CRI of only 20, they don't allow colours to be distinguished optimally. Amber LED sources are not white lights and alter colours completely. The advantage of a 2200K LED source is that it has a CRI70, which ensures an excellent perception of colours and greater energy efficiency.

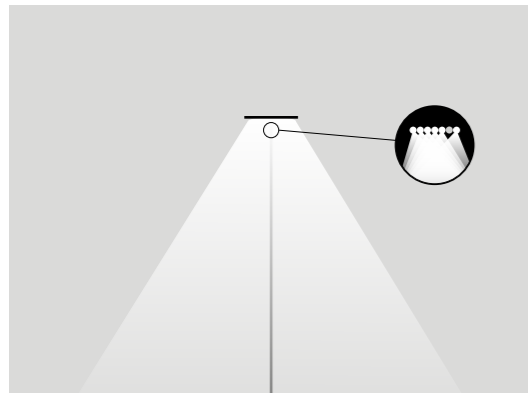
Lichtqualität

1. Reduzierte Blendung: Abschirmung der Lichtquelle durch einen Blendschutz

Blendung ist ein sehr unangenehmes Phänomen, denn sie setzt das Auge einer Helligkeit aus, die die Grenze der physiologischen Anpassung überschreitet (zu große Leuchtdichte bzw. zu hohe Leuchtdichtenkontraste im Sichtfeld). Wenn die LED selbst (bzw. eine LED-Matrix) im Emissionsbereich sichtbar ist, ist die hervorgerufene Blendung besonders hoch. Eine mögliche Lösung zur Einschränkung der Blendung ist die partielle bzw. komplette Abschirmung der LED-Leuchtmittel. Ein gutes Produktdesign macht es möglich, das Leuchtmittel abzuschirmen, ohne die photometrische Leistung (die Verteilung des photometrischen Körpers, die die Einheitlichkeit der Beleuchtung und die Anzahl der Lichtpunkte pro beleuchtetem Bereich beeinflusst) zu beeinträchtigen.

2. Farbtemperatur: das neue warme Licht CCT 2200K

Die Farbtemperatur ist das Maß für den Farbeindruck von weißem Licht. Je höher die Farbtemperatur, desto kälter erscheint der weiße Punkt. Die Cariboni Produkte sind in unterschiedlichen Farbtemperaturen erhältlich (Correlated Color Temperature: 2200K / 3000K / 4000K), um alle Arten von städtischen Bereichen optimal hervorzuheben. Das innovative LED-Leuchtmittel 2200K ist speziell für die Beleuchtung von historischen Ortschaften, Altstadt- und Touristenzentren, natürlichen Materialien wie Holz, Backstein oder Stein geeignet - überall dort, wo Produkte mit herkömmlichen Hochdruck-Natriumlampen ersetzt werden sollen. Natriumdampflampen strahlen ein warmes Licht ab, das allerdings keine optimale Farbwahrnehmung ermöglicht, denn sein CRI liegt in der Regel bei 20. Das Licht von bernsteinfarbenen LED-Lampen ist nicht weiß und verändert die Farbwahrnehmung komplett. Der Vorteil einer LED-Lampe mit 2200K liegt darin, dass sie einen CRI70 hat, der hingegen eine optimale Farbwahrnehmung und eine höhere Energieeffizienz gewährleistet.



3



3. Uniformità: Sistema ottico multilayers

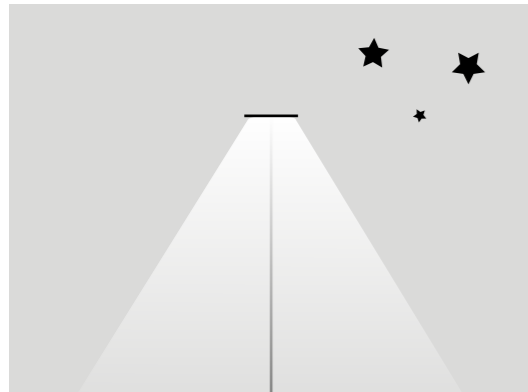
I sistemi ottici Cariboni sono composti da lenti in polimetilmetacrilato ad alta trasparenza che sono state sviluppate in modo che ciascun LED contribuisca a generare il medesimo solido fotometrico che insiste su tutta l'area di competenza del singolo apparecchio. Questa soluzione garantisce che, in caso di malfunzionamento di un singolo LED, non si crei una zona a minore illuminamento rispetto alle altre ma, al limite, si ottenga una riduzione percentuale dell'illuminamento sull'intera superficie di competenza.

4. Riduzione inquinamento luminoso: Cut-Off

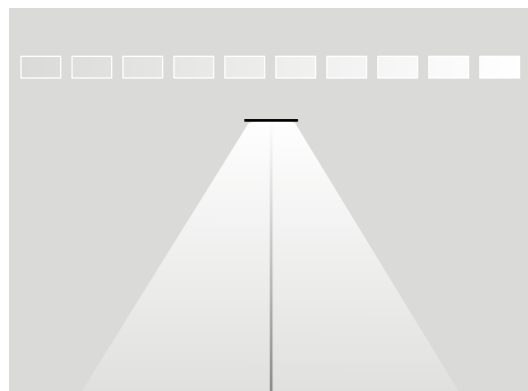
Tutti i prodotti LED Cariboni (inclinazione 0°) sono prodotti Cut-Off. I prodotti Cut-Off annullano il flusso emesso verso l'alto per ridurre l'inquinamento luminoso (ULOR: 0% DLOR: 100%).

5. Impatto ambientale: efficienza energetica e smart lighting

L'elevata efficienza delle sorgenti, unita ai differenti sistemi di regolazione o telegestione del flusso luminoso, garantiscono la possibilità di ottimizzare la quantità di luce in funzione dei requisiti di progetto e dei regimi di funzionamento, garantendo non solo un ridotto impatto ambientale ma anche una maggiore durata nel tempo del gruppo ottico e un risparmio economico per il cliente sia in fase di installazione che di gestione degli impianti.



4



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3. Uniformity: Multilayer optical system

Cariboni optical systems consist of high transparency polymethyl methacrylate lenses that have been developed to ensure that each LED contributes to generate the same photometric solid across the whole area covered by the individual luminaire. This solution guarantees that, if a single LED malfunctions, there isn't an area with lower lighting levels compared to the others but, at most, there is a percentage reduction of the lighting across the whole surface.

4. Reduction of light pollution: Cut-Off

All Cariboni LED products (0° angle) are Cut-Off products. Cut-Off products cancel the flux emitted upwards to reduce light pollution (ULOR: 0% DLOR: 100%).

5. Environmental impact: energy efficiency and smart lighting

The high efficiency of the light sources, coupled with the different adjustment or remote management systems of the light flow, guarantee the possibility of optimising the quantity of light based on the project requirements and the operating regimes. This not only achieves a lower environmental impact but also increases the life of the optical unit with consequent economic savings for the customer during the installation and management of the systems.

3. Gleichförmigkeit Optisches System Multilayer

Die optischen Systeme von Cariboni bestehen aus Linsen aus transparentem Polymethylmethacrylat, die so entwickelt wurden, dass jede einzelne LED-Lampe zur Entstehung desselben photometrischen Körpers beiträgt, der auf dem gesamten Zuständigkeitsbereich der einzelnen Leuchte anliegt.

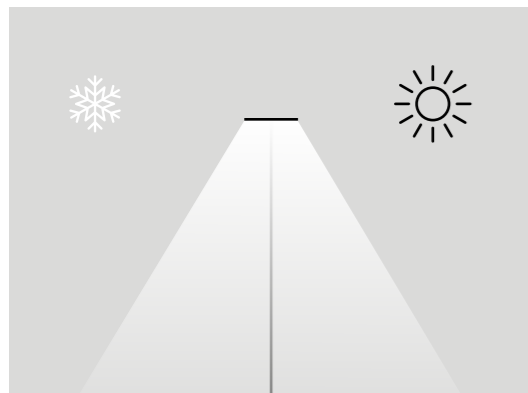
Diese Lösung gewährleistet, dass im Falle einer Betriebsstörung einer einzelnen LED kein Bereich entsteht, der im Vergleich zu den anderen schwächer beleuchtet ist, sondern dass es höchstens zu einer prozentualen Abschwächung der gesamten Oberflächenbeleuchtung kommt.

4. Reduzierung der Lichtverschmutzung: Cut-Off

Alle mit LED-Leuchtmitteln bestückten Cariboni Produkte (mit 0°-Neigung) sind Cut-Off Produkte. Cut-Off Produkte annullieren den Lichtstrom nach oben, um die Lichtverschmutzung zu reduzieren (ULOR: 0% DLOR: 100%).

5. Umweltverträglichkeit: Energieeffizienz und Smart Lighting

Die hohe Effizienz der Leuchtmittel gewährleistet in Verbindung mit den unterschiedlichen Systemen zur Steuerung bzw. Fernsteuerung des Lichtstroms, dass die Lichtmenge je nach Projektanforderungen und Betriebssystemen optimiert werden kann. Es wird also nicht nur die Umweltverträglichkeit verbessert, sondern auch eine längere Lebensdauer der optischen Einheit und eine Kosteneinsparung für den Kunden sowohl bei der Installation als auch bei der Verwaltung der Anlagen erzielt.



1



2



Affidabilità

1. Temperatura di esercizio: Ta -30°C +50°C

Il design delle linee di prodotto Cariboni è pensato per ottimizzare al meglio la dissipazione termica mantenendo la temperatura di giunzione dei LED ben al di sotto della soglia di riferimento, garantendo così la possibilità di installare i prodotti Cariboni in zone con temperature ambiente fino a 50°C. La corretta gestione del calore garantisce inoltre un lifetime del gruppo ottico maggiore di 160.000h.

2. Robustezza meccanica: Resistenza agli urti IK09 / IK10

Lo sviluppo tecnologico consente una sempre maggiore durata di vita delle sorgenti LED e dei dispositivi di alimentazione. L'obiettivo di Cariboni è quello di garantire la massima longevità all'intero sistema prodotto. La classificazione IK identifica il livello di resistenza all'urto meccanico dell'involucro esterno del prodotto. I prodotti Cariboni sono progettati per essere sempre più resistenti a questo tipo di sollecitazioni. Un valore elevato di IK garantisce infatti una concreta riduzione dei rischi di danneggiamento o rottura dei punti luce e riduce i costi di manutenzione.

Reliability

1. Operating temperature: Ta -30°C +50°C

The Cariboni product line is designed to optimise heat dissipation by keeping the connection temperature of the LEDs well below the reference threshold, which therefore allows the products to be installed in areas with ambient temperatures of up to 50°C. The correct heat management provides the optical unit with a lifetime of over 160.000h.

2. Mechanical strength IK09 / IK10 impact resistance

Technological developments allow for a constant lengthening of the lifetime of LED sources and power supply devices. Cariboni's aim is to guarantee the maximum lifetime for the entire product system. The IK rating identifies the impact resistance of the external product body. Cariboni products are designed to be increasingly resistant to this type of stresses. A high IK rating guarantees a concrete reduction of the risks of damage or failure of the luminaires and reduces maintenance costs.

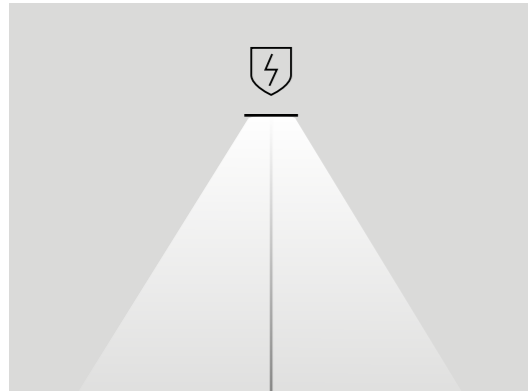
Zuverlässigkeit

1. Betriebstemperatur: Ta -30°C +50°C

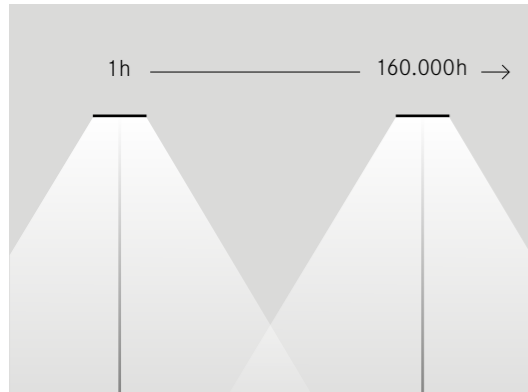
Die Produkte der Linien Cariboni sind so konstruiert, dass eine optimale Wärmeableitung gewährleistet ist und die Sperrschichttemperatur der LED-Lampen weit unter dem Bezugsgrenzwert gehalten wird, daher können sie auch in Umgebungen mit Temperaturen bis zu 50°C installiert werden. Die korrekte Verwaltung der Wärme gewährleistet außerdem eine Lebensdauer der optischen Einheit von mehr als 160.000h Stunden.

2. Mechanische Robustheit: Stoßfestigkeitsgrad IK09 / IK10

Technologische Innovationen ermöglichen eine immer längere Lebensdauer von LED-Leuchtmitteln und Versorgungseinheiten. Cariboni setzt sich zum Ziel, die maximale Langlebigkeit des gesamten Produktsystems zu gewährleisten. Der IK-Stoßfestigkeitsgrad identifiziert das Maß der Widerstandsfähigkeit des Produktgehäuses gegen Stoßbelastung. Die Cariboni Produkte werden so geplant, dass ihre Widerstandsfähigkeit gegen diese Art von Beanspruchung ständig optimiert werden kann. Ein hoher IK-Schutzgrad bedeutet in der Tat, dass sich die Gefahr der Beschädigung oder des Zerschlagens der Lichtpunkte erheblich verringert und somit auch ein reduzierter Wartungsaufwand gewährleistet ist.



3



4

160.000h
L80B20
L80B10

CLO

Affidabilità

3. Protezioni elettriche: sovratensioni e scariche elettrostatiche

I prodotti Cariboni sono stati progettati per ridurre al minimo il rischio di accumulo di cariche elettrostatiche e per resistere alle sovratensioni di modo comune e di modo differenziale fino ad un valore di 10kV. La sorgente LED infatti per sua natura, essendo un diodo, cioè un componente elettronico, è particolarmente sensibile a sbalzi di tensione e scariche elettrostatiche. Nell'ambito dell'illuminazione per esterni, i prodotti LED sono maggiormente soggetti a danneggiamenti a causa della loro posizione esposta. Scariche atmosferiche (fulmini), vento, operazioni di commutazione di impianti industriali, inserzioni discontinue di carichi induttivi limitrofi o guasti sulla linea possono progressivamente danneggiare o degradare il prodotto. Se l'apparecchio subisce eventi di sovratensione impulsive, un dispositivo apposito protegge il prodotto dal danneggiamento. Il dispositivo di protezione aggiunge un livello di salvaguardia dell'apparecchio a quello integrato nel driver di alimentazione ed è fatto per potere essere sostituito a fine vita, senza che ci siano danneggiamenti degli altri componenti elettronici all'interno dell'apparecchio. Questa soluzione riduce le possibilità di guasto dell'apparecchio e gli interventi di manutenzione dell'impianto.

4. Durabilità: lifetime e CLO

Al fine di ridurre gli interventi di manutenzione degli impianti e di sostituzione dei punti luce, Cariboni utilizza sorgenti con una durata di vita maggiore di 160.000h (@700mA @Ta25°C TM21 L80B20/L80B10).

I prodotti Cariboni sono inoltre predisposti per il sistema di autoregolazione CLO (Constant Lumen Output). Il compito del CLO è quello di compensare il naturale decadimento del flusso luminoso dei LED. Attraverso un innalzamento di corrente graduale, precedentemente programmato, il flusso luminoso si mantiene nel tempo e comunque non diventa mai inferiore del valore limite preimpostato.

Reliability

3. Electric protections: voltage surges and electrostatic discharges

Cariboni products have been designed to reduce the risk of buildups of electrostatic charges to a minimum and to resist common and differential mode voltage surges up to 10kV. As it is a diode, and therefore an electronic component, the LED lamp naturally operates with extremely low currents and voltages and is particularly sensitive to voltage surges and electrostatic discharges. In the lighting sphere, LED products located outdoors are more subject to this kind of damage due to their exposed position. Atmospheric discharges (lightning), wind, switching operations of industrial systems, nearby discontinuous inductive load insertions or faults on the line may gradually damage or ruin the product. If the fitting is subject to impulsive voltage surges, a specific device protects the product from being damaged. The protection device adds a further safeguard level to the fitting, as well as the one built into the power supply driver, and it is designed to be replaced at the end of its life, without damaging other electronic components inside the fitting. This solution reduces the possibility of failures in the fitting and the maintenance interventions required for the system.

4. Durability: lifetime and CLO

In order to reduce the system maintenance interventions and the replacement of luminaires, Cariboni uses sources with a lifetime higher than 160.000h (@700mA @Ta25°C TM21 L80B20/L80B10).

Cariboni products are also CLO self-regulation system ready (Constant Lumen Output). The aim of CLO is to compensate the natural deterioration of the LED luminous flux.

By pre-programming a gradual increase in current, the luminous flux is maintained over time and, in any case, never drops lower than the preset limit.

Zuverlässigkeit

3. Schutz der elektrischen Komponenten: Überspannung und elektrostatiche Entladungen

Die Cariboni Produkte sind so konstruiert, dass die Gefahr der Ansammlung elektrostatischer Ladungen auf ein Mindestmaß reduziert ist und eine Widerstandsfähigkeit gegen Gleichtakt- und Gegentaktüberspannung bis zu 10kV gewährleistet ist. LED-Leuchtmittel sind Licht-emittierende Dioden, d.h. elektronische Komponenten und daher besonders empfindlich gegenüber Überspannungen und elektrostatischen Entladungen. Werden sie für die Beleuchtung von Außenbereichen eingesetzt, ist aufgrund ihrer exponierten Position die Gefahr einer Beschädigung besonders hoch. Atmosphärische Entladungen (Blitze), Wind, Kommutierungsprozesse in Industrieanlagen, diskontinuierliche Zuschaltungen von angrenzenden induktiven Lasten oder Störungen in der Leitung können das Produkt allmählich beschädigen bzw. zerstören. Wenn die Leuchte stoßartig auftretende Überspannungsereignisse erleidet, wird sie durch eine spezifische Vorrichtung vor Beschädigung geschützt. Diese Schutzvorrichtung erhöht das Schutzniveau, das durch den im Driver integrierten Schutz gewährleistet ist, und ist so konzipiert, dass sie am Ende ihrer Lebensdauer ohne die Gefahr der Beschädigung der anderen elektronischen Komponenten in der Leuchte ausgewechselt werden kann. Das Produkt ist dank dieser Lösung weniger schadensanfällig und erfordert einen geringeren Wartungsaufwand.

3. Haltbarkeit: Lebensdauer und CLO

Um die Eingriffe zur Wartung der Anlagen und zum Auswechseln der Lichtpunkte zu reduzieren, verwendet Cariboni Leuchtmittel mit einer Lebensdauer von mehr als 160.000h (@700mA @25°C TM21 L80B20/L80B10).

Darüber hinaus sind die Cariboni Produkte für die Konstant-Lichtstrom-Regelung CLO (Constant Lumen Output) vorgerüstet. Die CLO dient dazu, die Abnahme des Lichtstroms über die Einsatzdauer der LED-Leuchtmittel auszugleichen. Dank einer im Voraus programmierten, schrittweisen Erhöhung der Leistungsaufnahme wird der Lichtstrom über die Lebensdauer der LED beibehalten und unterschreitet niemals den voreingestellten Grenzwert.

1. Design: sistemi di illuminazione per ogni spazio urbano

L'aspetto geometricamente essenziale delle linee di prodotto Cariboni è pensato per rendere l'apparecchio flessibile a qualsiasi città, nel pieno rispetto delle identità dei luoghi urbani. Le linee Cariboni si presentano come sistemi formalmente coerenti che consentono di combinare differenti distribuzioni fotometriche e sistemi di fissaggio per rispondere al meglio alle richieste di ogni progetto.

2. Installazione: nuovi sistemi di arredo urbano e sostituzione dei vecchi punti luce

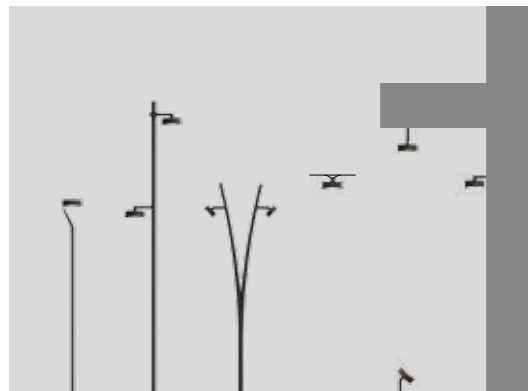
I prodotti Cariboni possono essere installati con gli accessori disponibili sul catalogo o fissati su supporti esistenti (pali, bracci, pastorali, funi, catene...). La maggior parte delle linee Cariboni prevede la possibilità di inclinare i prodotti in fase di installazione per compensare le inclinazioni dei supporti ed assicurare che la totalità del flusso emesso sia rivolto verso il basso.

3. Sicurezza elettrica: precablaggio e sezionatore automatico

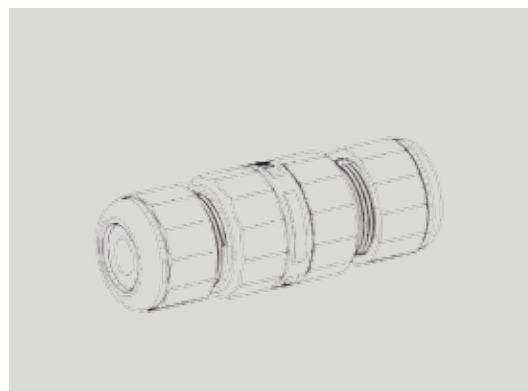
I nuovi prodotti Cariboni possono essere installati in differenti configurazioni senza necessità di aprire l'apparecchio. Gli apparecchi sono infatti forniti pre-cablati per un'installazione semplice, veloce e sicura. Un connettore IP68 consente il collegamento con i cavi di alimentazione. Quando invece è prevista l'apertura del vano componenti in fase di installazione o manutenzione il gruppo di alimentazione include sempre un sistema di sezionamento automatico della linea elettrica per la sicurezza dell'operatore.



1



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3



1. Design: lighting systems for every urban space

The geometrically essential look of the Cariboni product lines has been designed to render the fitting adaptable to any city, whilst respecting the identity of the urban locations. The Cariboni product lines consist of formally coherent systems that allow different photometric distributions and fixing systems to be combined to meet the demands of each project.

2. Installation: new urban furniture systems and replacement of old light points

Cariboni products can be installed with the accessories available in the catalogue or fixed on existing supports (poles, arms, tubes, cables, chains, etc.). Most of the Cariboni lines allow the products to be adjusted during the installation to compensate for the angles of the supports and to ensure that the whole light flow is aimed downwards.

3. Electrical safety: pre-wiring and automatic disconnecter

The new Cariboni products can be installed in different configurations without having to open the fitting. They are supplied pre-wired for a simple, quick and safe installation. An IP68 connector is used to connect to the power supply cables. The power supply unit always includes an automatic cut off system of the electrical line to ensure the safety of the operator, if the component's compartment needs to be opened during installation or maintenance.

1. Design: Beleuchtungssysteme für alle urbanen Räume

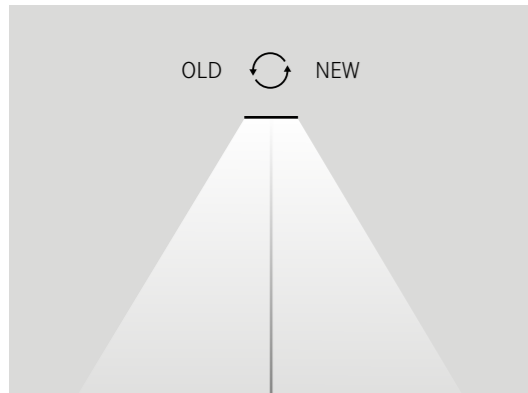
Das geometrisch schlichte Design der Cariboni Produktlinien wurde mit dem Ziel entwickelt, die Leuchten für jede Stadt geeignet zu machen und die Identität des jeweiligen urbanen Kontextes zu bewahren. Die Cariboni Produktlinien präsentieren sich als formal kohärente Systeme, die die Möglichkeit bieten, unterschiedliche photometrische Verteilungen und Befestigungssysteme zu kombinieren, um beliebigen Projektanforderungen gerecht zu werden.

2. Installation: neue Systeme für die städtische Beleuchtung und Ersetzen der vorhandenen Lichtpunkte

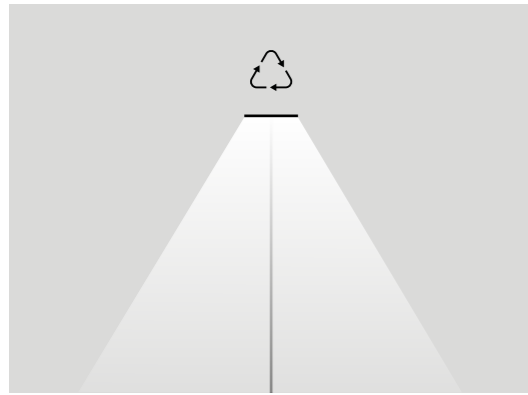
Die Cariboni Produkte können mithilfe der im Katalog aufgeführten Zubehörteile installiert oder an bereits vorhandenen Trägern befestigt werden (Masten, Ausleger, Bogenausleger, Seile, Ketten...). Für den Großteil der Cariboni Produktlinien ist die Möglichkeit vorgesehen, die Produkte während der Montage auszurichten, um die Neigungen der Träger auszugleichen und sicherzustellen, dass der gesamte Lichtstrom nach unten gerichtet ist.

3. Elektrische Sicherheit: Vorverkabelung und automatischer Trennschalter

Die neuen Cariboni Produkte können in unterschiedlichen Konfigurationen installiert werden, ohne die Leuchte öffnen zu müssen. Die Installation ist einfach, schnell und sicher, denn die Leuchten werden mit Vorverkabelung geliefert. Der Anschluss an die Versorgungskabel erfolgt über einen Kabelverbinder IP68. Im Fall von Produkten, deren Komponentengehäuse bei der Installation oder Wartung geöffnet werden muss, besitzt die Versorgungseinheit immer ein automatisches Trennsystem zur Unterbrechung der Stromversorgung, um die Sicherheit des Bedieners zu gewährleisten.



4



5



Design

4. Manutenzione: sostituibilità gruppo ottico e gruppo di alimentazione

Cariboni sa bene come lo sviluppo tecnologico rende velocemente obsoleti i prodotti di illuminazione. Nell'ottica di una sempre maggiore estensione del ciclo di vita dei prodotti, Cariboni rende disponibili prodotti predisposti all'aggiornamento tecnologico nel tempo del cuore ottico e di quello elettronico.

5. Impatto ambientale: ingombri ridotti, separabilità dei componenti e riciclabilità

Cariboni è attenta all'impatto ambientale dell'intero ciclo di vita della propria offerta. Oltre all'affidabilità dei prodotti nel tempo, garantita dalla robustezza degli involucri, dalla scelta dei componenti elettrici e dal possibile aggiornamento degli stessi, Cariboni ha preferito per le nuove linee ingombri ridotti e soluzioni di imballo compatte per ottimizzare i trasporti e ridurre i rifiuti in fase di smaltimento.

I materiali principali utilizzati nei prodotti sono completamente riciclabili: pressofusione di lega di alluminio a basso contenuto di rame, vetro e acciaio inox.

Una particolare attenzione negli ultimi prodotti è riservata a semplificare la separabilità dei componenti per il riciclo degli stessi al fine-vita: si evitano i fissaggi con silicone, resine o collanti, si utilizzano sistemi anti-ossidazione per i componenti metallici e si preferisce viteria removibile con utensili di comune dotazione.

Design

4. Maintenance: replacement of the optical unit and power supply unit

At Cariboni we are well aware of how technological progress renders lighting products obsolete extremely quickly. In order to increase the life cycle of the products we have designed our products so that the optical and electronic parts can be updated over time.

5. Environmental impact: smaller sizes, separable components and recycling

The environmental impact of the entire life cycle of our products is extremely important for us at Cariboni. As well as the long term reliability of the products, guaranteed by the strength of the casings, the electric components selected and the possibility of being updated, Cariboni has focused on smaller sizes and compact packaging solutions to optimise shipping and reduce waste during the disposal.

The main materials used in the products are completely recyclable: die-cast aluminium alloy with a low copper content, glass and stainless steel.

In the latest products we have focused on simplifying the separability of the components for recycling at the end of their life, by avoiding fixings with silicone, resins or glues, using anti-oxidation systems for the metal components and nuts and bolts that can be removed with ordinary tools.

Design

4. Wartung: Ersetzbarkeit der optischen Einheit und der Versorgungseinheit

Wir wissen sehr genau, wie schnell die technologischen Entwicklungen die Beleuchtungsprodukte obsolet machen. Um eine kontinuierliche Verlängerung der Lebensdauer zu ermöglichen, bieten wir Produkte an, die für eine technologische Aktualisierung der optischen und elektronischen Einheit vorgerüstet sind.

5. Umweltverträglichkeit: kleine Abmessungen, trenn- und recycelbare Komponenten

Die Umweltverträglichkeit des gesamten Lebenszyklus unserer Produkte ist uns ein zentrales Anliegen. Die Cariboni Produkte gewährleisten dank ihrer robusten Gehäuse, der Qualität der elektrischen Komponenten und der Möglichkeit zur Aktualisierung eine langfristige Zuverlässigkeit. Für die neuen Produktlinien hat sich Cariboni darüber hinaus für kleine Abmessungen und kompakte Verpackungen entschieden, wodurch der Transport optimiert wird und geringere Abfallmengen entsorgt werden müssen.

Die Hauptmaterialien, die in den Produkten verwendet werden, sind komplett recycelbar: Aluminiumdruckguss-Legierungen mit geringem Kupferanteil, Glas und Edelstahl.

Bei den neuesten Produkten wurde besonders darauf geachtet, die Trennbarkeit der Komponenten für den Recyclingprozess am Ende der Lebensdauer zu erleichtern: Verzicht auf Befestigungen mit Silikon, Harzen oder Klebstoffen, Gebrauch von Antioxidationssystemen für die Komponenten aus Metall und Einsatz von Schraubteilen, die mit allgemein gebräuchlichen Werkzeugen entfernt werden können.



Sistemi Ottici

Cariboni rende disponibile una vasta gamma di sistemi ottici e distribuzioni fotometriche in grado di illuminare ogni geometria urbana e di soddisfare le richieste di ogni area geografica di interesse. Le distribuzioni fotometriche per la categoria “Spazi e Percorsi Urbani” si distinguono in ottiche:

- **Asimmetriche;**
- **Asimmetriche stradali;**
- **Simmetriche stradali;**
- **Rotosimmetriche;**
- **Diffondenti.**

Tra le nuove soluzioni per gli spazi e i percorsi urbani ci sono:

- **Ottiche asimmetriche stradali per attraversamenti pedonali AP-DX e AP-SX;**
- **Ottica asimmetrica stradale per manto bagnato MB-01;**
- **Ottica simmetrica stradale per centro strada SO-01;**
- **Ottiche Front & Back F&B.**

L’ottica stradale “Front & Back” (brevettata) è in grado di generare un doppio solido fotometrico che assolve alla duplice funzione di illuminare da un lato la carreggiata e dal lato opposto una pista ciclabile o un’area pedonale. Questa soluzione offre la possibilità di sostituire i sistemi palo esistenti completi di due fonti luminose con un sistema palo corredato da un solo prodotto che assolve al doppio compito illuminotecnico garantendo così un notevole risparmio energetico e di costi di manutenzione.

Optics

Cariboni has a vast range of optical systems and photometric distributions that can light any urban space and meet the demands of every geographic location. The photometric distribution solutions for the “Urban Spaces and Pathways” category include the following:

- **Asymmetrical;**
- **Street asymmetrical;**
- **Street symmetrical;**
- **Roto-symmetrical;**
- **Diffusing.**

Some of the new solutions for urban spaces and walkways include:

- **Asymmetrical street optics for pedestrian crossings AP-DX and AP-SX;**
- **Asymmetrical street optics for wet surfaces MB-01;**
- **Asymmetrical street optics for road centres SO-01;**
- **Front & Back optics F&B.**

The “Front & Back” (patented) street optic is able to generate a double photometric solid that is able to light on one side the road and on the opposite side a cycle path or pedestrian area. This solution offers the possibility of replacing existing pole top systems with two light sources, with a pole top system fitted with a single product that performs both jobs, and provides a considerable savings in terms of energy and maintenance costs.

Optische Systeme

Cariboni bietet eine breite Palette von optischen Systemen und photometrischen Verteilungen an, die den Beleuchtungsanforderungen beliebiger urbaner Bereiche oder geographischer Gegebenheiten gerecht werden können. Die photometrischen Verteilungen für die Kategorie “Urbane Räume und Wege” unterscheiden sich durch:

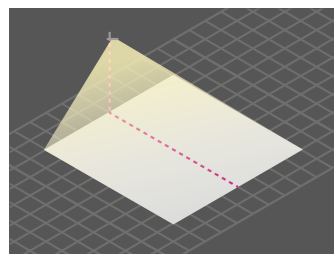
- **Asymmetrische Optiken;**
- **Asymmetrische Straßenoptiken;**
- **Symmetrische Straßenoptiken;**
- **Rotosymmetrische Optiken;**
- **Streuoptiken.**

Zu den neuen Lösungen für urbane Räume und Wege gehören:

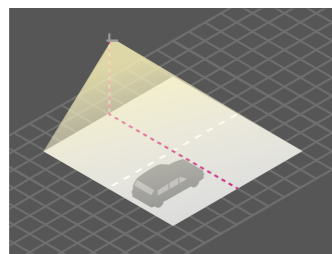
- **Asymmetrische Straßenoptiken für Fußgängerüberwege AP-DX und AP-SX;**
- **Asymmetrische Straßenoptiken für nasse Straßenbeläge MB-01;**
- **Symmetrische Straßenoptiken für die Straßenmitte SO-01;**
- **Straßeoptiken Front & Back F&B.**

Die patentierte Straßenoptik “Front & Back” ist imstande, einen doppelten photometrischen Körper zu erzeugen, der zwei Funktionen erfüllt: Auf der einen Seite wird die Fahrbahn, auf der gegenüberliegenden Seite ein Fahrrad- bzw. Fußgängerweg beleuchtet. Mit dieser Lösung können die vorhandenen Mastsysteme mit zwei Lichtquellen durch ein Mastsystem mit nur einer Leuchte, die die doppelte Beleuchtungsfunktion übernimmt, ersetzt werden, was die Energie- und Wartungskosten erheblich reduziert.

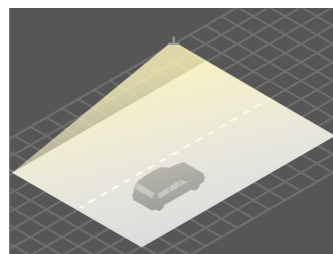
Asymmetrical optics



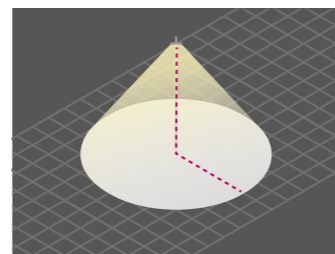
Street asymmetrical optics



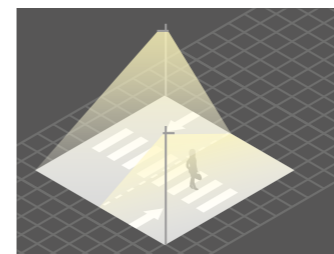
Street symmetrical optics



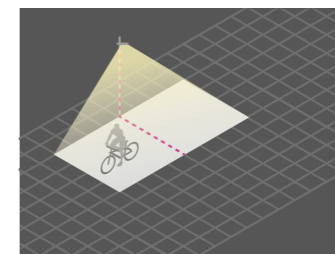
Rotosymmetrical optics



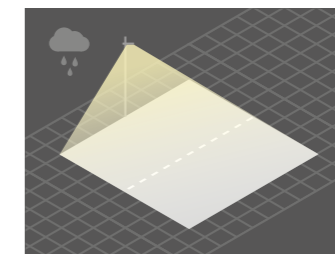
Pedestrian crossing optics



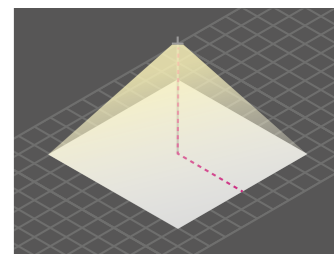
Cycle optics

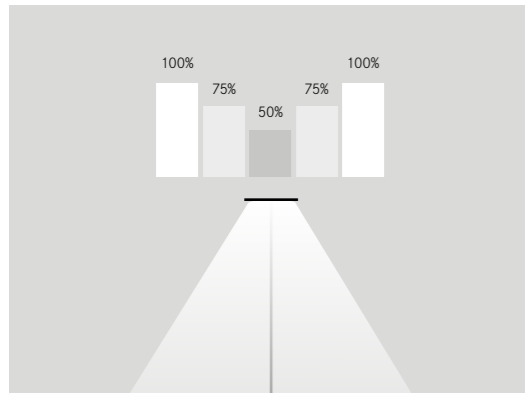


Wet surface optics



Front & Back optics





1



1. Stand Alone: Regolazione di flusso in Mezzanotte Virtuale HM3 e HM4

È una tecnica di riduzione del flusso luminoso stand-alone, completamente integrata in ogni singolo prodotto e che non richiede nuovi cablaggi o dispositivi esterni.

Autoapprendimento mezzanotte virtuale con programmazione preimpostata selezionabile HM3

– L'alimentatore consente di selezionare tra differenti programmi preimpostati di regolazione del flusso luminoso (ciascuno per le 3 varianti di corrente 350-525-700mA). Alla selezione del programma, l'alimentatore attiva uno speciale algoritmo che permette la riduzione del flusso luminoso, e di conseguenza della potenza assorbita, durante le ore centrali della notte. Il calcolo della mezzanotte virtuale è automatico e continuamente aggiornato nel corso dell'anno.

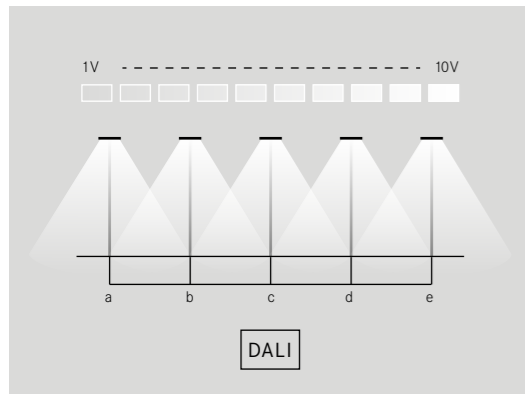
Autoapprendimento mezzanotte virtuale programmabile custom HM4

– Disponibili versioni programmabili custom su richiesta del cliente; mediante un algoritmo di mezzanotte virtuale è possibile eseguire una precisa riduzione percentuale del flusso luminoso dell'apparecchio e della potenza elettrica assorbita dall'apparecchio.

2. Group Management: Regolazione di flusso in 1-10V e DALI

1-10V – È un controllo di tipo analogico, basato sulla distribuzione di un segnale in tensione che spazia tra 1 e 10 Volt, dove 1V corrisponde al valore minimo di intensità luminosa e 10V corrispondono al valore massimo.

DALI – È un controllo di tipo digitale, dove ad ogni apparecchio viene assegnato un indirizzo univoco, che permette il controllo del singolo punto luce e la creazione di gruppi di controllo.



2



1. Stand Alone: HM3 and HM4 Virtual Midnight flow adjustment

This stand-alone light flow reduction system is built into every individual product and it does not require new wiring or external devices.

Virtual midnight self-learning with selectable preset programming HM3

The driver allows different preset luminous flux adjustment programmes to be selected (one each for the 3 current variants 350-525-700mA). When the programme has been selected, the driver activates a special algorithm that allows the luminous flux to be reduced and consequently the power input during the middle of the night. The virtual midnight calculation is made automatically and continually updated during the year.

Custom programmable virtual midnight self-learning HM4

Custom programmable versions are available at the customer's request. Using a virtual midnight algorithm, a precise reduction can be made in the luminaire's luminous flux percentage and its electrical power input.

2. Group Management: Flow adjustment in 1-10V and DALI

1-10V – *This is an analogue type control system based on the distribution of a voltage signal between 1 and 10 Volt, where 1V corresponds to the minimum light intensity value and 10V corresponds to the maximum value.*

DALI – *This is a digital type control system where every device is assigned a unique address that allows the individual light points to be controlled and the control units to be created.*

1. Stand Alone: Lichtstromregelung mit Berechnung der virtuellen Mitternacht HM3 und HM4

Dabei handelt es sich um eine komplett in das Produkt integrierte Steuerungstechnik zur Reduzierung des Lichtstroms, die im Stand-Alone-Betrieb arbeitet, d.h. es werden keine zusätzlichen Verkabelungen oder externe Geräte benötigt.

System zur Selbsterlernung der virtuellen Mitternacht mit voreingestellter auswählbarer HM3

– Programmierung Das Vorschaltgerät bietet die Möglichkeit, zwischen verschiedenen, voreingestellten Programmen für die Lichtstromregelung zu wählen (jeweils mit den 3 Stromstärken 350-525-700mA). Bei Auswahl des Programms aktiviert das Vorschaltgerät einen speziellen Algorithmus zur Reduzierung des Lichtstroms und somit der verbrauchten Leistung während der Mitternachtsstunden. Die Berechnung der virtuellen Mitternacht erfolgt automatisch und wird im Laufe des Jahres ständig aktualisiert.

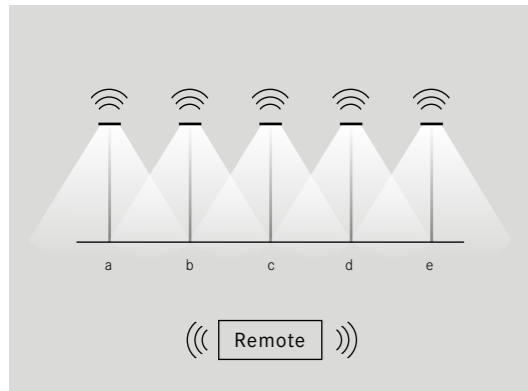
Kundenspezifisch programmierbares System zur Selbsterlernung der virtuellen Mitternacht Custom HM4

– Auf Wunsch des Kunden bieten wir spezifisch programmierbare Versionen an: Mittels eines Algorithmus zur Berechnung der virtuellen Mitternacht wird die Lichtemission der Leuchte präzise prozentual gesenkt und somit die aufgenommene elektrische Leistung reduziert.

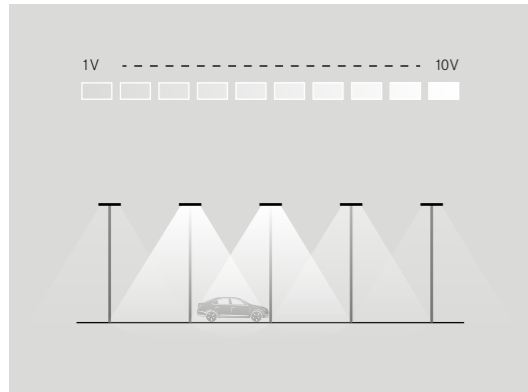
2. Steuerung von Leuchtengruppen: Lichtflussregulierung 1-10V und DALI

1-10V – Diese analoge Steuertechnik beruht auf der Verteilung eines Spannungssignals von 1-10V, wobei 1V dem kleinsten Wert der Lichtstärke und 10V dem höchsten Wert entspricht.

DALI-Betriebsgerät – DALI-Betriebsgeräte arbeiten mit digitalen Steuerprotokollen, die jede Leuchte einzeln adressieren, sodass die Lichtpunkte unabhängig oder als Leuchtengruppen angesteuert werden können.



3



4

Illuminazione intelligente

3. Remote Management

I sistemi di telecontrollo ad onde convogliate e wireless consentono di gestire da remoto il dimming del flusso luminoso, il monitoraggio dell'impianto, le statistiche di consumo e la segnalazione dei guasti. I sistemi di telegestione, oltre a contenere i consumi e le spese di gestione, predispongono l'infrastruttura utile ad ospitare altri sistemi o servizi per il territorio compatibili con i più innovativi progetti di smart lighting.

Onde convogliate – Tramite la comunicazione a onde convogliate, quindi senza cavi aggiuntivi nell'impianto, è possibile comunicare con ogni singolo punto luce. Il sistema consente di monitorare da remoto ogni singolo apparecchio e di modificarne i profili di consumo.

Wireless – Il sistema di telegestione wireless è in grado di gestire gli apparecchi da remoto in modo semplice e senza vincoli dovuti all'impianto preesistente. La tecnologia wireless consente di monitorare ogni singolo apparecchio e di modificarne i profili di consumo.

4. Sensori

Rilevatori di movimento e di presenza – L'utilizzo dei sensori di movimento consente di rilevare il passaggio di persone o veicoli e di regolare il flusso emesso per garantire i giusti livelli di sicurezza. Se non viene rilevato alcun movimento di persone o veicoli il flusso luminoso viene ridotto consentendo un importante contenimento di consumi e costi. Il tipo di sensore e le modalità di installazione devono essere definiti in base al contesto applicativo e alle geometrie dello spazio di progetto. Il controllo dell'impianto, comunicando sistemi 1-10V, DALI o Wireless può essere centralizzato. I sensori devono essere montati esternamente al prodotto.

Sensore luminoso – I prodotti Cariboni con regolazione DALI, 1-10V o Wireless sono compatibili con sensori luminosi che regolano l'emissione di luce in uscita sulla base della quantità di luce già presente nell'ambiente. Questa soluzione evita inutili sprechi e garantisce il rientro dei costi di investimento in tempi brevi.

Smart Lighting

3. Remote Management

The PLC and wireless remote control systems allow the luminous flux to be dimmed, the system to be monitored and consumption statistics and faults to be displayed all remotely. In addition to reducing consumption and running costs, remote management systems provide an infrastructure that is useful for hosting other local systems or services that are compatible with the latest smart lighting projects.

PLC – *Using PLC communications. i.e. with no extra system wiring, it is possible to communicate with each individual light point. The system allows each individual luminaire to be monitored remotely and consumption profiles to be modified.*

Wireless – *The wireless remote management system can remote control luminaires simply and without limits thanks to the existing system. Wireless technology allows each individual luminaire to be monitored remotely and consumption profiles to be modified.*

4. Sensors

Movement and presence sensors – *Using movement sensors allows the luminaire's luminous flux to be regulated and the correct safety levels maintained according to whether a person or a vehicle is passing. If no movement of people or vehicles is detected the luminous flux is reduced, thereby allowing consumption and costs to be reduced. The type of sensor and the method of installation should be defined according to the application context and the size and shape of the space in question. The system control, by communicating with the 1-10V DALI or Wireless systems, can be centralised. Sensors must be mounted outside the product.*

Light sensor – *The Cariboni products with DALI, 1-10V or Wireless adjustment are compatible with light sensors that adjust the light emission output based on the quantity of light already in the space. This solution avoids waste and guarantees a return on investment in a very short time.*

Intelligente Beleuchtung

3. Fernsteuerung

Die Fernsteuerungssysteme mit Powerline- und drahtloser Kommunikation ermöglichen das Dimmen des Lichtstroms und die Überwachung der Anlage, der Verbrauchsstatistiken und der Störungsmeldungen aus der Ferne. Das Remote-Steuerungssystem reduziert nicht nur den Energieverbrauch und die Verwaltungskosten, sondern stellt auch die erforderliche Infrastruktur bereit, um weitere, mit den innovativen Smart-Lighting-Projekten kompatible Anlagen oder Service-Systeme zu integrieren.

Powerline-Kommunikation – Die Übertragung via Powerline ermöglicht die Kommunikation mit den einzelnen Lichtpunkten ohne die Verwendung zusätzlicher Kabel in der Anlage. Das System ermöglicht es, die einzelnen Leuchten aus der Ferne zu überwachen und deren Verbrauchsprofile zu ändern.

Wireless – Das drahtlose Remote-Steuerungssystem ist imstande, Leuchten mühelos und ohne Einschränkungen, die durch die bereits bestehende Anlage verursacht werden, fernzusteuern. Mithilfe der Wireless-Technologie kann jede einzelne Leuchte aus der Ferne überwacht und deren Verbrauchsprofil geändert werden.

3. Sensoren

Bewegungs- und Präsenzmelder – Der Einsatz von Bewegungsmeldern ermöglicht es, Passanten bzw. Fahrzeuge zu erkennen und den Lichtstrom dementsprechend zu regulieren, sodass das benötigte Maß an Sicherheit gewährleistet ist. Wenn keine Bewegung von Personen oder Fahrzeugen erfasst wird, wird der Lichtstrom und somit der Energieverbrauch reduziert. Welche Art von Sensor gewählt und wie er installiert wird, hängt vom Anwendungsumfeld und der Geometrie des im Projekt geplanten Raums ab. Die Steuerung der Beleuchtungsanlage, die über die Systeme 1-10V, DALI oder drahtlos erfolgt, kann zentralisiert werden. Die Sensoren werden extern an der Leuchte montiert.

Lichtsensor – Die Produkte Cariboni mit DALI-, 1-10V- oder drahtloser Steuerung sind mit Lichtsensoren kompatibel, die den austretenden Lichtstrom je nach bereits in der Umgebung vorhandener Lichtmenge regulieren. Dadurch werden Verschwendungen durch unnützes Licht ausgeschlossen und die Kosten der Investition in kurzer Zeit amortisiert.

Spazi e percorsi urbani
Urban spaces and walkways
Urbane räume und wege

Palo conico testa palo Ø60mm
Conical pole post top Ø60mm
 Konischer Mast Mastkopf Ø60mm

H 3500mm	01PA0113C
H 4000mm	01PA0108C
H 4500mm	01PA0109C
H 5000mm	01PA0110C
H 5500mm	01PA0111C
H 6000mm	01PA0112C



Palo rastremato base Ø102-76mm + codolo testa palo Ø60mm H90mm
Tapered pole basis Ø102-76mm + fastening part Ø60mm H90mm
 Verjüngte Mast basis Ø102-76mm + Schaft-Mastkopf Ø60mm H90mm

H 3500mm	01PA0150C1
H 4000mm	01PA0151C1
H 4500mm	01PA0152C1
H 5000mm	01PA0153C1
H 5500mm	01PA0154C1
H 6000mm	01PA0155C1
H 6500mm	01PA0156C1
H 7000mm	01PA0157C1



Palo conico testa palo Ø76mm + codolo Ø60mm H90mm / codolo Ø60mm H120mm
Conical pole post top Ø76mm + fastening part Ø60mm H90mm / fastening part Ø60mm H120mm
 Konischer Mast Mastkopf Ø76mm + Schaft-Mastkopf Ø60mm H90mm / Schaft-Mastkopf Ø60mm H120mm

H 4000mm	01PA0001C	TP Ø76mm
H 4000mm	01PA0001C1	TP Ø60mm H90mm
H 4000mm	01PA0001C2	TP Ø60mm H120mm
H 4500mm	01PA0052C	TP Ø76mm
H 4500mm	01PA0052C1	TP Ø60mm H90mm
H 4500mm	01PA0052C2	TP Ø60mm H120mm
H 5000mm	01PA0002C	TP Ø76mm
H 5000mm	01PA0002C1	TP Ø60mm H90mm
H 5000mm	01PA0002C2	TP Ø60mm H120mm
H 5500mm	01PA0053C	TP Ø76mm
H 5500mm	01PA0053C1	TP Ø60mm H90mm
H 5500mm	01PA0053C2	TP Ø60mm H120mm
H 6000mm	01PA0054C	TP Ø76mm
H 6000mm	01PA0054C1	TP Ø60mm H90mm
H 6000mm	01PA0054C2	TP Ø60mm H120mm
H 6500mm	01PA0003C	TP Ø76mm
H 6500mm	01PA0003C1	TP Ø60mm H90mm
H 6500mm	01PA0003C2	TP Ø60mm H120mm
H 7000mm	01PA0055C	TP Ø76mm
H 7000mm	01PA0055C1	TP Ø60mm H90mm
H 7000mm	01PA0055C2	TP Ø60mm H120mm
H 7500mm	01PA0004C	TP Ø76mm
H 7500mm	01PA0004C1	TP Ø60mm H90mm
H 7500mm	01PA0004C2	TP Ø60mm H120mm
H 8000mm	01PA0096C	TP Ø76mm
H 8000mm	01PA0096C1	TP Ø60mm H90mm
H 8000mm	01PA0096C2	TP Ø60mm H120mm



Palo rastremato base Ø127mm, testa palo Ø102mm + codolo Ø60mm H90 / codolo Ø60mm H120mm
Tapered pole basis Ø127mm, post top Ø102mm + fastening part Ø60mm H90mm / fastening part Ø60mm H120mm
 Verjüngte Mast basis Ø127mm, Mastkopf Ø102mm + Schaft-Mastkopf Ø60mm H90mm / Schaft-Mastkopf Ø60mm H120mm

H 6500mm	01PA0011C	TP Ø102mm
H 6500mm	01PA0011C1	TP Ø60mm H90mm
H 6500mm	01PA0011C2	TP Ø60mm H120mm
H 7000mm	01PA0097C	TP Ø102mm
H 7000mm	01PA0097C1	TP Ø60mm H90mm
H 7000mm	01PA0097C2	TP Ø60mm H120mm
H 7500mm	01PA0012C	TP Ø102mm
H 7500mm	01PA0012C1	TP Ø60mm H90mm
H 7500mm	01PA0012C2	TP Ø60mm H120mm
H 8000mm	01PA0098C	TP Ø102mm
H 8000mm	01PA0098C1	TP Ø60mm H90mm
H 8000mm	01PA0098C2	TP Ø60mm H120mm
H 8500mm	01PA0013C	TP Ø102mm
H 8500mm	01PA0013C1	TP Ø60mm H90mm
H 8500mm	01PA0013C2	TP Ø60mm H120mm



Palo rastremato base Ø127mm, testa palo Ø114mm
Tapered pole basis Ø127mm, post top Ø114mm
 Verjüngte Mast basis Ø127mm, Mastkopf Ø114mm

H 7500mm	01PA0022C
H 8000mm	01PA0126C



Le versioni con piastra di base su richiesta.
Versions with base plate on request.
 Versionen mit Grundplatte auf Anfrage.

Spazi e percorsi urbani
Urban spaces and walkways
Urbane räume und wege

Palo cilindrico Ø114 mm
Cylindrical pole Ø114 mm
 Zylindrischer Mast Ø114 mm

H 6500mm	01PA0016C
H 6500mm	01PA0017C
H 7000mm	01PA0099C
H 7000mm	01PA0100C
H 7500mm	01PA0101C
H 7500mm	01PA0018C
H 8000mm	01PA0102C
H 8000mm	01PA0125C



Palo cilindrico testa palo Ø102mm + codolo Ø60mm H90mm /codolo Ø60mm H 120mm
Cylindrical pole post top Ø102mm + fastening part Ø60mm H90mm/fastening part Ø60mm H 120mm
 Zylindrischer Mast Ø102mm + Schaft-Mastkopf Ø60mm H90mm /Schaft-Mastkopf Ø60mm H 120mm

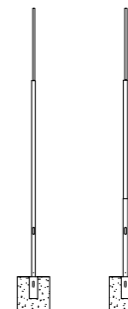
H 4000mm	01PA0005C	TP Ø102mm
H 4000mm	01PA0005C1	TP Ø60mm H90mm
H 4000mm	01PA0005C2	TP Ø60mm H120mm
H 4500mm	01PA0056C	TP Ø102mm
H 4500mm	01PA0056C1	TP Ø60mm H90mm
H 4500mm	01PA0056C2	TP Ø60mm H120mm
H 5000mm	01PA0006C	TP Ø102mm
H 5000mm	01PA0006C1	TP Ø60mm H90mm
H 5000mm	01PA0006C2	TP Ø60mm H120mm
H 5500mm	01PA0057C	TP Ø102mm
H 5500mm	01PA0057C1	TP Ø60mm H90mm
H 5500mm	01PA0057C2	TP Ø60mm H120mm
H 6000mm	01PA0058C	TP Ø102mm
H 6000mm	01PA0058C1	TP Ø60mm H90mm
H 6000mm	01PA0058C2	TP Ø60mm H120mm
H 6500mm	01PA0009C	TP Ø102mm
H 6500mm	01PA0009C1	TP Ø60mm H90mm
H 6500mm	01PA0009C2	TP Ø60mm H120mm
H 7000mm	01PA0059C	TP Ø102mm
H 7000mm	01PA0059C1	TP Ø60mm H90mm
H 7000mm	01PA0059C2	TP Ø60mm H120mm
H 7500mm	01PA0010C	TP Ø102mm
H 7500mm	01PA0010C1	TP Ø60mm H90mm
H 7500mm	01PA0010C2	TP Ø60mm H120mm



Le versioni con piastra di base su richiesta.
Versions with base plate on request.
 Versionen mit Grundplatte auf Anfrage.

Palo rastremato base Ø102mm (Ø127mm H8500mm), testa palo Ø60mm
Tapered pole basis Ø102mm (Ø127mm H8500mm), post top Ø60mm
 Verjüngte Mast basis Ø102mm (Ø127mm H8500mm), Mastkopf Ø60mm

H 4500mm	01PA0025C
H 5000mm	01PA0103C
H 5500mm	01PA0026C
H 6000mm	01PA0104C
H 6500mm	01PA0029C
H 7000mm	01PA0105C
H 7500mm	01PA0030C
H 8500mm*	01PA0033C



*base Ø127 TP Ø102-60mm
 *basis Ø127 TP Ø102-60mm
 *basis Ø127 TP Ø102-60mm

Palo conico curvo doppio, due tronchetti (H 4000mm* e H 8000mm**)
Conical curved pole with double arm (H 4000mm e H 8000mm**)*
 Gebogener Konischer Mast, mit Doppelarm (H 4000mm* e H 8000mm**)

H 4500mm*	06PA0002C
H 9000mm **	06PA0009C



Palo conico curvo singolo, un tronchetto (H 4000mm* e H 8000mm**)
Conical curved pole with single arm (H 4000mm e H 8000mm**)*
 Gebogener Konischer Mast, mit Einzelarm (H 4000mm* e H 8000mm**)

H 4500mm *	06PA0001C
H 9000mm **	06PA0007C



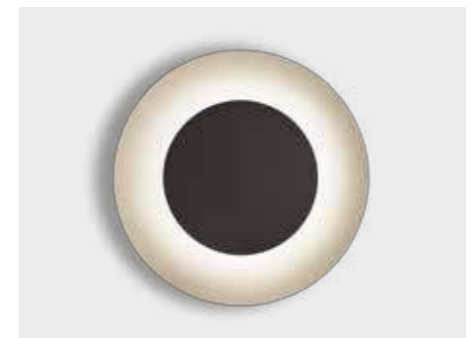
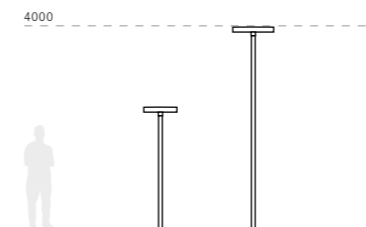
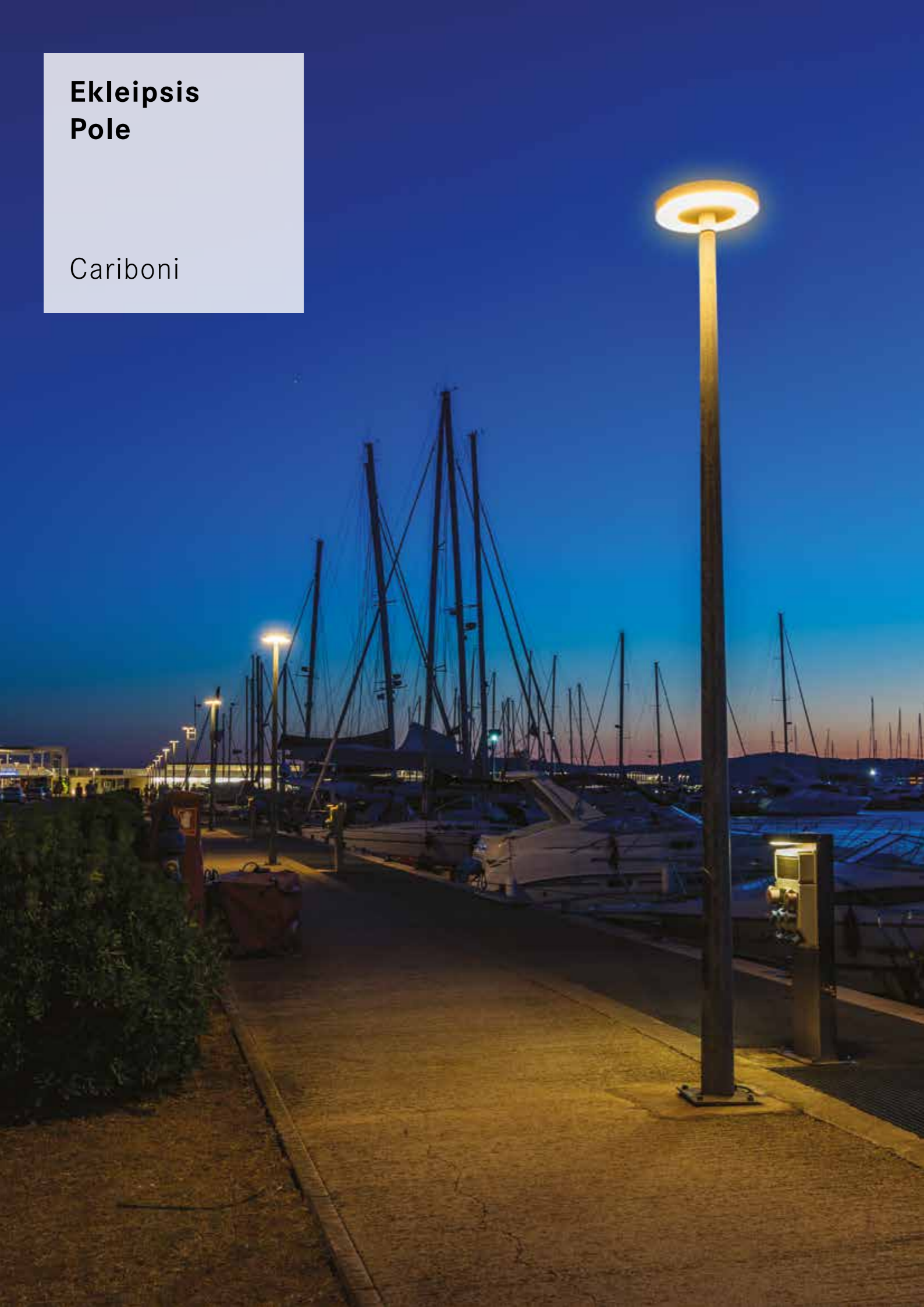
Palo conico curvo singolo, due tronchetti (H 4000mm/ H 8000mm)
Conical curved pole with double arm (H 4000mm/ H 8000mm)
 Gebogener Konischer Mast, mit Doppelarm (H 4000mm/ H 8000mm)

H 9000mm	06PA0008C
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Ekleipsis Pole

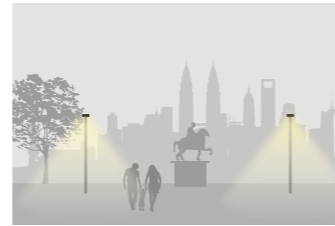
Cariboni



Ekleipsis P. 122



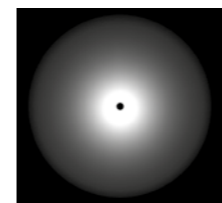
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
8 kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-10° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



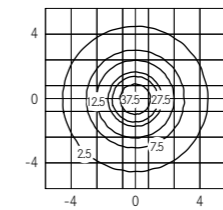
1000-3600lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
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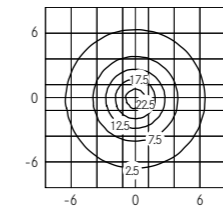
RS-D



Ekleipsis medium bollard 2300
Rotosymmetrical wide beam



Ekleipsis large bollard 4000
Rotosymmetrical wide beam



Installazione: testa palo
Installation: post top
Installation: Mastkopf

- | | | | | | |
|--|---|---|--|--|---|
|  | <p>illuminazione indiretta
<i>Indirect Lighting</i>
Indirekte Beleuchtung</p> |  | <p>Cut-Off
<i>Cut-Off</i>
Cut-Off</p> |  | <p>Resistenza agenti chimici/atmosferici
<i>Resistance to chemical/atmospheric agents</i>
Widerstand chemische/atmosphärische</p> |
|  | <p>Sostituibilità gruppo alimentazione
<i>Power supply unit substitutability</i>
Ersetzbarkeit der Versorgungseinheit</p> |  | <p>Separabilità delle componenti
<i>Separable components</i>
Trennbare Komponenten</p> |  | <p>Assenza di viti a vista
<i>No visible screws</i>
Fehlen sichtbarer Schrauben</p> |
|  | <p>No vetro
<i>No glass</i>
Kein Glas</p> | | | | |



Benessere visivo: emissione di luce indiretta e schermatura della sorgente

Ottica indiretta diffondente. Il sistema ottico Ekleipsis nasconde completamente le sorgenti Led ed è composto da una lente TIR in PMMA e da un riflettore bianco in alluminio. La lente distribuisce uniformemente il flusso luminoso su tutto il riflettore. Il riflettore, grazie alla sua geometria ottenuta per rivoluzione di una curva polinomiale appositamente studiata e alla sua finitura in vernice a polveri bianca, diffonde nell'ambiente una luce morbida ad alto comfort visivo.

Visual comfort: Indirect Light Emission and Hidden Light Emitting Surface

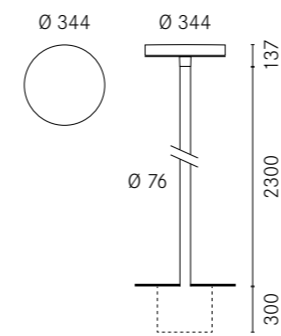
Indirect diffused emission optic. The Ekleipsis optical system completely hides the LED light surfaces, and is composed of a TIR lens in PMMA and a white aluminium reflector. The lens evenly distributes the light beam over the entire surface of the reflector. Thanks to its shape, obtained through a specially-studied revolving polynomial curve, and a white powder-coated finish, the reflector distributes soft light with high levels of visual comfort.

Sehwohlbefinden: Ausstrahlung indirekten Lichts und Abschirmung der Lichtquelle

Breitstrahlende indirekte Optik. Das Ekleipsis-Optiksystem versteckt die LED-Lichtquellen vollständig und besteht aus einer TIR-Linse aus PMMA und einem weißen Reflektor aus Aluminium. Die Linse verteilt den Lichtstrom gleichmäßig auf den gesamten Reflektor. Der Reflektor verteilt dank seiner Geometrie, die durch die Umdrehung einer speziell entworfenen polynomischen Kurve erhalten wird, und dank seiner weißem Pulverlackierung in der Umgebung ein weiches Licht mit hohem Sehkomfort.

220 240V	50 60Hz	CL II	IP66	IK08
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Ekleipsis Pole pole medium 2300

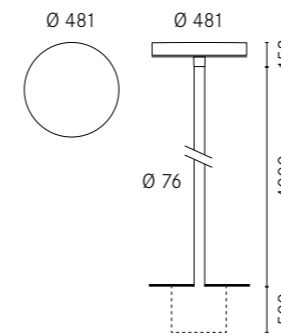


Max weight: 16 kg (pole included)
Max exposed surface: 0.092m²
Lateral exposed surface: 0.023m²

Ekleipsis M 2300

06EK4	
Led (source flux)	
1800 lm 19W	
H23	
K	
4000	3000
0	9
Optics	
RS-D	
0	
Colors	
RAL9006	Sablé100
A	C

Ekleipsis Pole pole large 4000



Max weight: 34 kg (pole included)
Max exposed surface: 0.18m²
Lateral exposed surface: 0.036m²

Ekleipsis L 4000

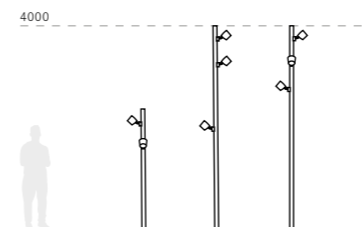
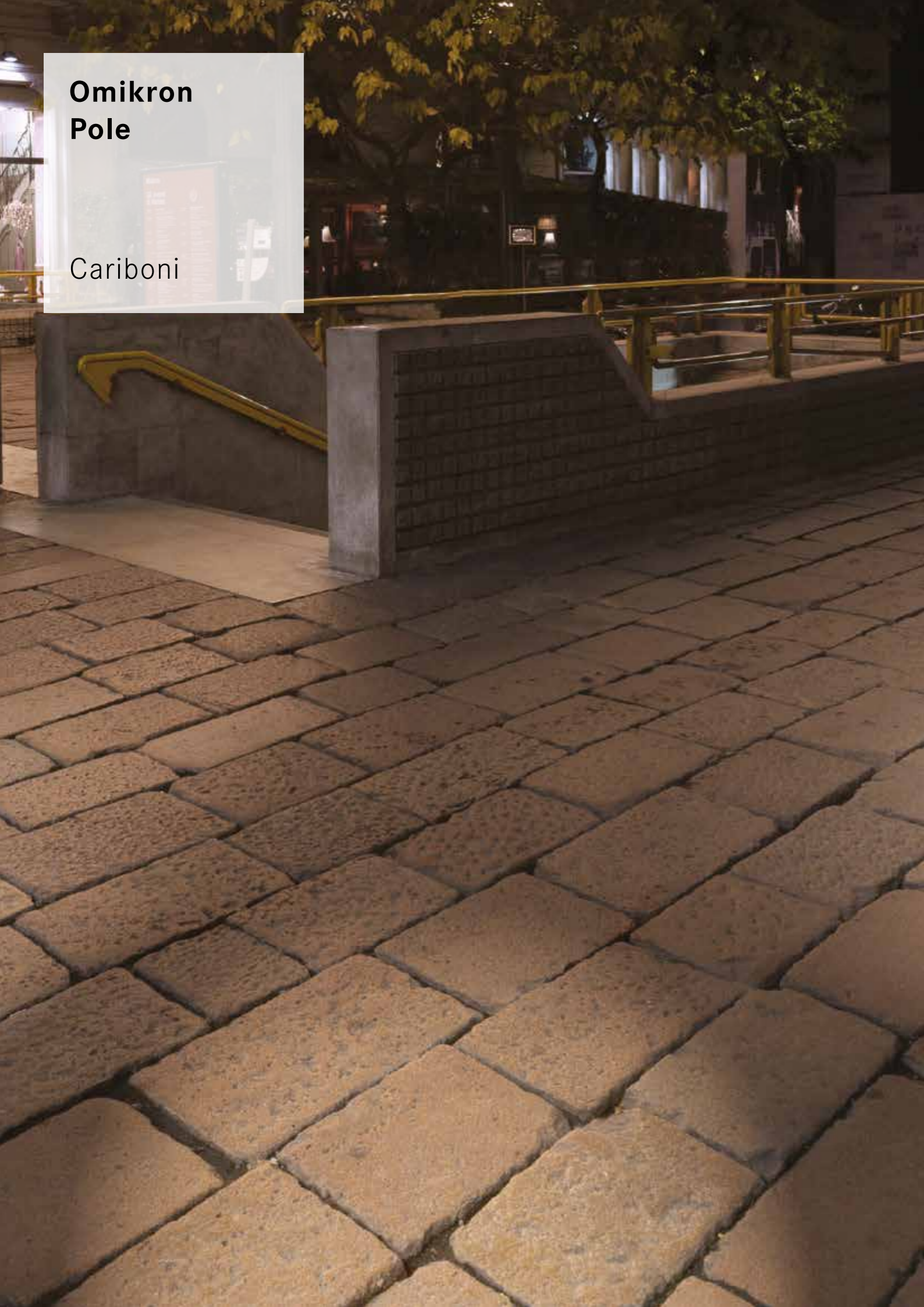
06EK4	
Led (source flux)	
3600 lm 45W	
O03	
K	
4000	3000
0	9
Optics	
RS-D	
0	
Colors	
RAL9006	Sablé100
A	C

Esempio *Example* Beispiel

06EK4	O03	0	0	A
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Omikron Pole

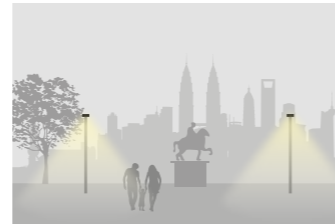
Cariboni



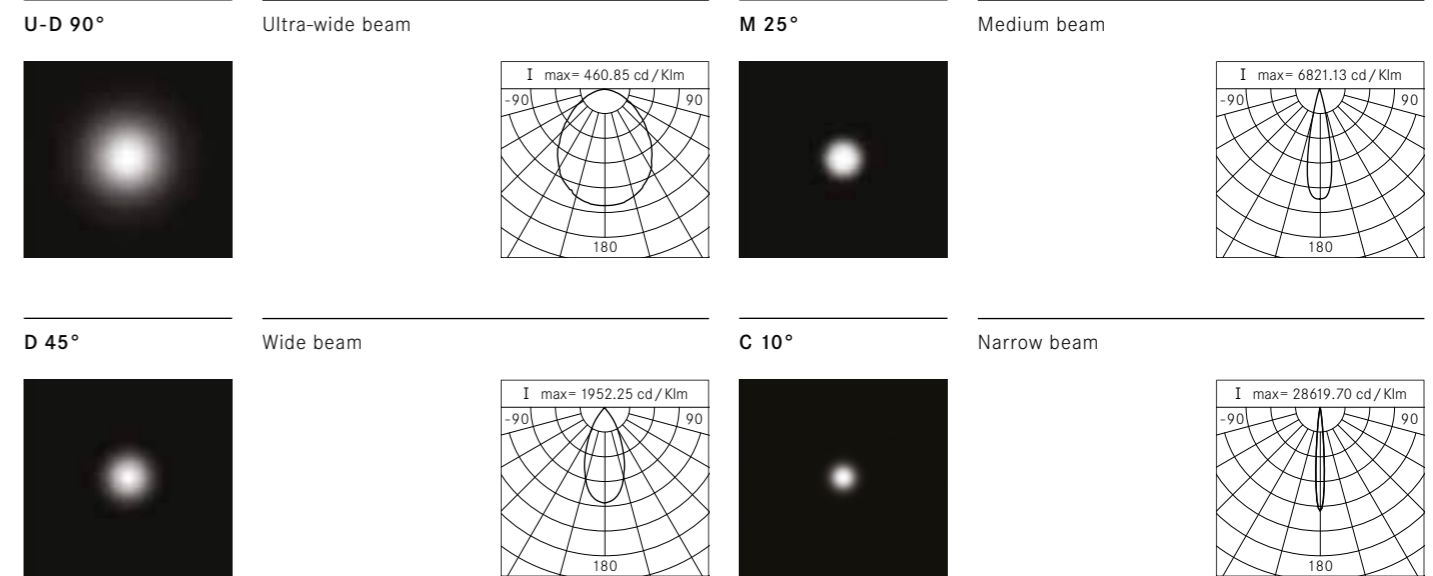
Omikron Flood P. 56



220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I CL II on request	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08 (U-D 90°) IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
-20°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
DALI on request ON OFF	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung






1805-1920lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥90	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)






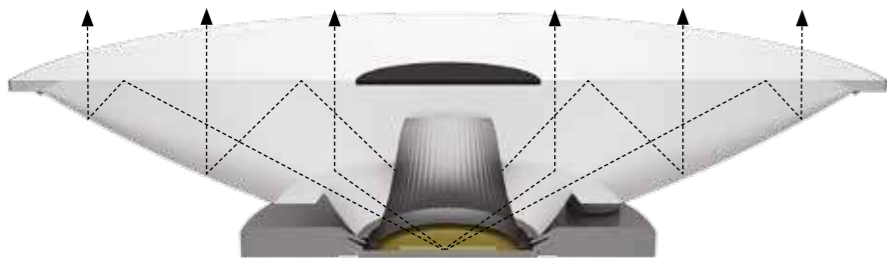
Installazione: palo Ø 60-76 mm

Installation: pole Ø 60-76 mm

Installation: Mast Ø 60-76 mm

-  Schermatura sorgenti
Hidden Light Emitting Surfaces
Abschirmung der Lichtquellen
-  Elevata resistenza agli urti (IK09)
Maximum impact resistance (IK09)
Maximum Stoßfestigkeitsgrad (IK09)
-  Prodotto orientabile
Orientable product
Ausrichtbares Produkt
-  Precablaggio
Pre-wiring
Vorverkabelung
-  Separabilità delle componenti
Separable components
Trennbare Komponenten
-  CRI≥90 SMCD=3
CRI≥90 SMCD=3
CRI≥90 SMCD=3

-  Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische
-  Dimensioni compatte
Dimensions compact
Kompakten Abmessungen
-  Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung



Benessere visivo e schermatura della sorgente

Il sistema ottico è composto da una lente e una "pupilla nera". La lente catadiottrica a doppia riflessione interna (D-TIR) permette un accurato controllo del fascio di proiezione e un design sottile. La pupilla nasconde la sorgente alla vista dell'osservatore: durante la notte, quando la luce è accesa, la pupilla evita l'abbagliamento; durante il giorno, quando la luce è spenta, la pupilla scherma la LES (Light-Emitting Surface) del COB.

Visual comfort and Hidden Light Emitting Surface

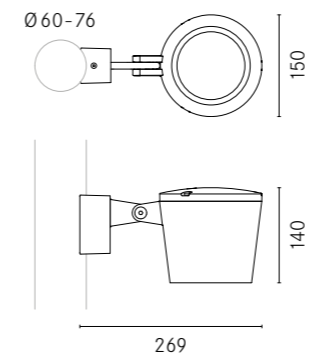
The optical system consists of a lens and a "black pupil". The catadioptric lens with double internal reflection (D-TIR) allows for precise control of the light beam and a slim design. The pupil hides the light surface from the observer's sight. During the night, when the light is on, the pupil avoids dazzling; during the day, when the light is off, the pupil screens the COB's LES (Light-Emitting surface).

Sehwohlbefinden und Abschirmung der Lichtquelle

Das Optiksystm besteht aus einer Linse und einer "schwarzen Pupille". Die katadioptrische Linse mit doppelter interner Reflexion (D-TIR) ermöglicht eine genaue Kontrolle des Projektionslichtbündels und ein schmales Design. Die Pupille versteckt die Lichtquelle vor dem Auge des Betrachters: wenn das Licht während der Nacht eingeschaltet ist, verhindert die Pupille die Blendung; wenn das Licht während des Tages ausgeschaltet ist, schirmt die Pupille das LES (Lichtaustrittsfläche) vom COB (chip on board) ab.

220 240V	50 60Hz	CL I	IP66	IK08 IK09
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Omikron Pole poles



Max weight: 2kg
Max exposed surface: 0.025m²
Lateral exposed surface: 0.025m²

Omikron Pole			
06OM1			
Led (source flux)			
Ref.@500mA @4000K	Ref.@500mA @3000K		
1920lm 19W	1805lm 19W		
A1	A1		
mA			
500			
4			
K			
4000	3000		
0	9		
Optics			
C 10°	M 25°	D 45°	U-D 90°
A8	A9	B0	B2
Colors			
Sablé100			
C			

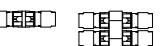
Esempio Example Beispiel

06OM1	A1	4	0	A9	C
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Accessori Accessories Zubehör

06KS918C0 / 06KS909C0

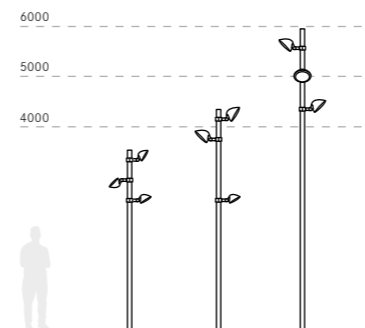
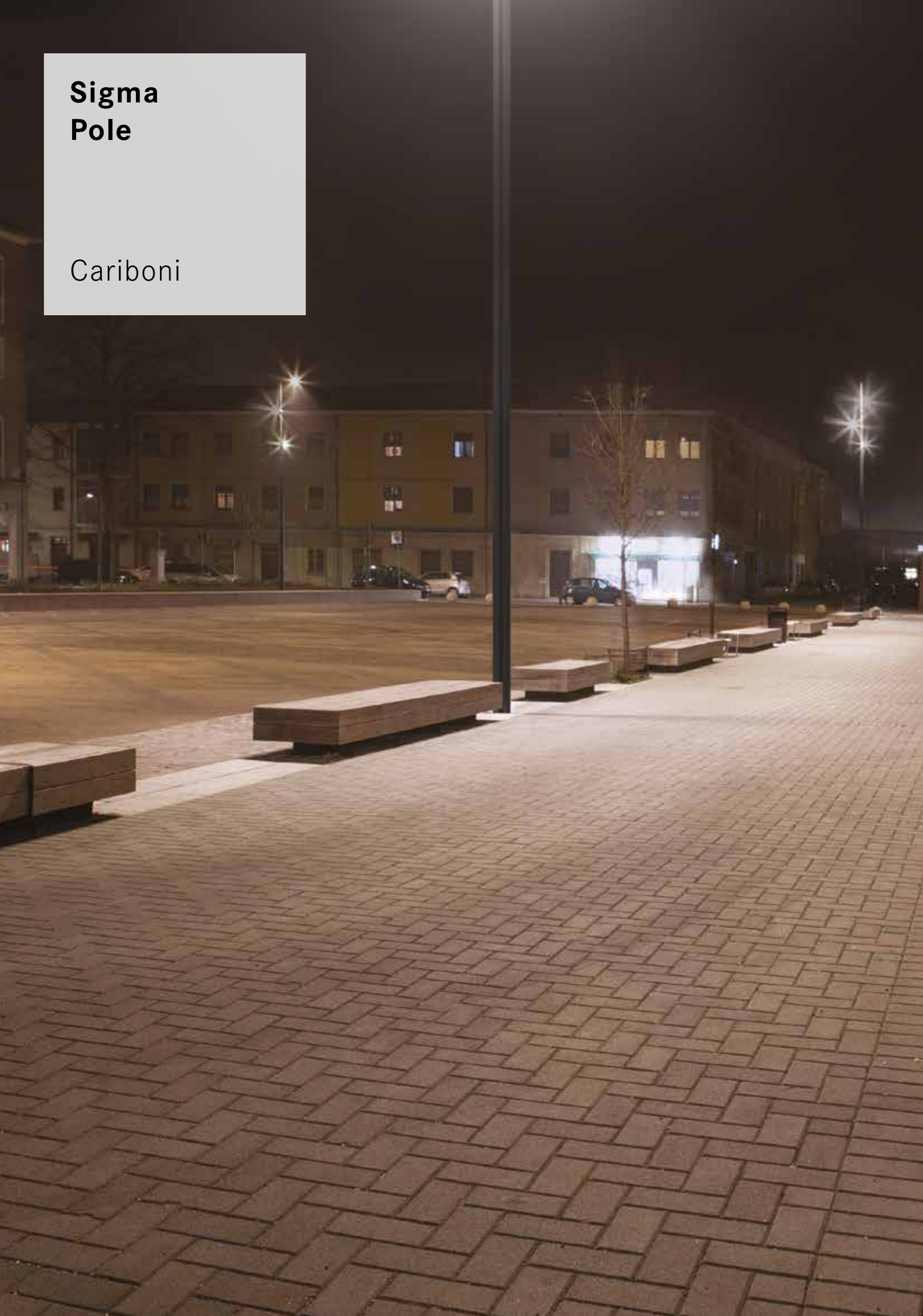
Connettore 2 vie - Connettore 4 vie IP68
2-way connector - 4-way connector IP68
2-Wege-Stecker - 4-Wege-Stecker IP68



Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

Sigma Pole

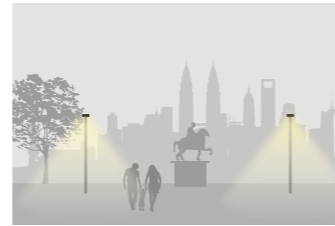
Cariboni



Sigma Flood P. 72














220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08 U-D 90° IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
1-10V on request DALI	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



2190-11815lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K 2200K on request	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥80	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

W-W	Wall washer		M 25°	Medium beam	
U-D 90°	Ultra-wide beam		C 11°	Narrow beam	
D 40°	Wide beam		U-C 6°	Ultra-narrow beam	
E 12° x 50°	Ellipsoidal				

Installazione: palo Ø60-76mm Ø102mm
Installation: pole Ø60-76mm Ø102mm
Installation: Mast Ø60-76mm Ø102mm

	Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen		Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"
	CRI≥80 SMCD=4 <i>CRI≥80 SMCD=4</i> CRI≥80 SMCD=4		ILLUMINAZIONE INTELLIGENTE <i>Smart Lighting</i> Intelligente Beleuchtung
	Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C		Elevata resistenza agli urti (IK09) <i>Maximum impact resistance (IK09)</i> Maximum Stoßfestigkeitsgrad (IK09)
	Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten
	Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung		TLCI>85 su richiesta <i>TLCI>85 on request</i> TLCI>85 auf Anfrage

	Luce calda 2200K su richiesta <i>Warm Light 2200K on request</i> Warme Licht 2200K auf Anfrage
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz
	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
	Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit
	Flicker free <i>Flicker free</i> Flicker free



Benessere visivo e schermatura delle sorgenti

Le geometrie della linea Sigma sono state pensate per consentire l'arretramento del gruppo ottico rispetto allo schermo, al fine di ridurre la visibilità delle sorgenti. La finitura superficiale del recuperatore elimina ogni riflessione indesiderata della luce per garantire benessere visivo e controllo ottico.

Visual comfort and Hidden Light Emitting Surfaces

The form of the Sigma line has been created to allow the optical unit to be set back from the screen, resulting in a reduction of the visibility of the light emitting surfaces. The surface finish of the collector eliminates all undesired light reflection, guaranteeing visual comfort and optical control.

Sehwohlbefinden und Abschirmung der Lichtquellen

Die Geometrien der Sigma-Produktreihe wurden entworfen, um die Zurücksetzung der Optikeinheit im Vergleich zum Schirm zu ermöglichen, damit die Sichtbarkeit der Lichtquellen verringert wird. Die Oberflächenbehandlung des Rekuperators beseitigt jegliche unerwünschte Lichtreflexion, um Sehwohlbefinden und optische Kontrolle zu gewährleisten.

Distribuzioni della luce

I prodotti della linea Sigma includono proiettori e wall washer che ottimizzano il comfort visivo senza rinunciare ad alte prestazioni in termini di distribuzioni fotometriche ed efficienza luminosa.

Light Distribution

The products in the Sigma line include floodlights and wall-washers which optimise visual comfort while maintaining high performance in terms of photometric distribution and illumination efficiency.

Lichtverteilung

Die Produkte der Sigma-Reihe umfassen Projektoren und Wall Washer, die den Sehkomfort optimieren, ohne dabei auf hohe Leistungen in Bezug auf photometrische Verteilungen und Lichtausbeute zu verzichten.



Orientabilità

Sigma può essere orientato con precisione grazie alla base di fissaggio inclinabile +90° -35°. Sistema di puntamento e blocco in regolazione continua.

Orientability

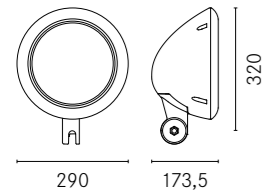
Sigma can be oriented with precision thanks to its fixing base which can be tilted +90° -35°. Continuously-adjustable pointing and locking system.

Ausrichtbarkeit

Sigma lässt sich dank der um +90° -35° neigbaren Befestigungsbasis präzise ausrichten. Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung.

Sigma Pole

brackets and poles small



Max weight: 7.00kg

Max exposed surface: 0.038m²Lateral exposed surface: 0.049m²

Sigma Pole S

06SG3

Led (source flux) Ref. @700mA @4000K

3935lm* 36W

B6

4570lm 36W

B6

*Only U-C 6°

Led (source flux) Ref. @700mA @3000K

3795lm* 36W

B6

4420lm 36W

B6

mA

700	525	350
0	5	3

K

4000	3000	2200*	*On request
0	9	1	

Optics

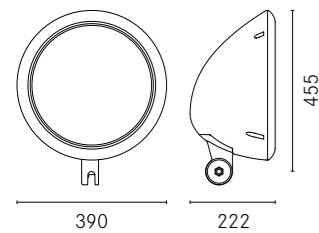
U-C 6°*	C 11°	M 25°	D 40°	E 12°x50°	U-D 90°	W-W	*Only 3935lm
C3	B8	B9	C0	C1	C4	C2	

Colors

Sablé100
C

Sigma Pole

brackets and poles medium



Max weight: 8.00kg

Max exposed surface: 0.060m²Lateral exposed surface: 0.073m²

Sigma Pole M

06SG4

Led (source flux) Ref. @700mA @4000K

7450lm* 71W

D2

8590lm 71W

D2

10410lm* 105W

E8

11815lm 105W

E8

*Only U-C 6°

Led (source flux) Ref. @700mA @3000K

7195lm* 71W

D2

8300lm 71W

D2

10060lm* 105W

E8

11420lm 105W

E8

mA

700	525	350
0	5	3

K

4000	3000	2200*	*On request
0	9	1	

Optics

U-C 6°*	C 11°	M 25°	D 40°	E 12°x50°	U-D 90°	W-W	*Only 7450lm and 10410lm
C3	B8	B9	C0	C1	C4	C2	

Colors

Sablé100
C

Esempio *Example* Beispiel

06SG4	D2	0	0	C3	C
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Accessori *Accessories* Zubehör**06SG904C0 - Sablé 100**

B128 Giunto orientabile per anello e braccio

B128 Adjustable joint for ring and arm

B128 Justierbares Gelenk für Ring und Arme



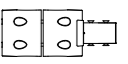
135

06AK916C0 - Sablé 100

B139 Anello palo Ø102mm singolo

B139 Single ring for Ø102mm pole

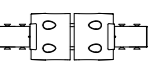
B139 Einzelring für Mast Ø102mm

**06AK917C0 - Sablé 100**

B140 Anello palo Ø102mm doppio

B140 Double ring for Ø102mm pole

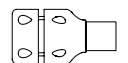
B140 Doppelring für Mast Ø102mm

**01AK903C0 - Sablé 100**

L3 Giunto singolo per palo Ø60-76mm

L3 Simple joint kit for post Ø60-76mm

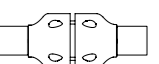
L3 Kit Einzel-Mastanschluss Ø60-76mm

**01AK904C0 - Sablé 100**

L4 Giunto doppio per palo Ø60-76mm

L4 Double joint kit for post Ø60-76mm

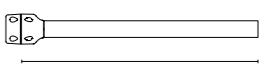
L4 Kit Doppel-Mastanschluss Ø60-76mm

**01AK921C0 - Sablé 100**

B1 Braccio tubolare singolo Ø60mm per palo Ø60-76mm

B1 Arm tubular Ø60mm for Ø60-76mm pole

B1 Arm Rohr Ø60mm für Masten Ø60-76mm



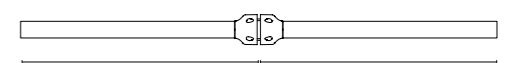
550

01AK922C0 - Sablé 100

B2 Braccio tubolare doppio Ø60mm per palo Ø60-76mm

B2 Double arm tubular Ø60mm for Ø60-76mm pole

B2 Doppelarm Rohr Ø60mm für Masten Ø60-76mm



550

550

06AK907C0 - Sablé 100

B155 Braccio singolo L 550mm palo Ø102mm

B155 Single arm L 550mm pole Ø102mm

B155 Einarmig L 550mm Mast Ø102mm



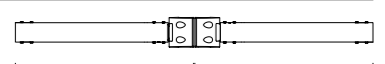
550

06AK909C0 - Sablé 100

B157 Braccio doppio L 550mm palo Ø102mm

B157 Double arm L 550mm pole Ø102mm

B157 Doppelarm L 550mm Mast Ø102mm



550

550

06KS909C0

Connettore 4 vie IP68

4-way connector IP68

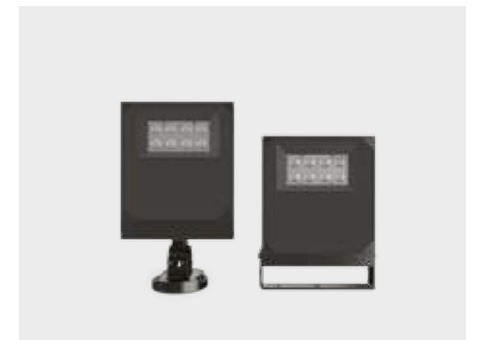
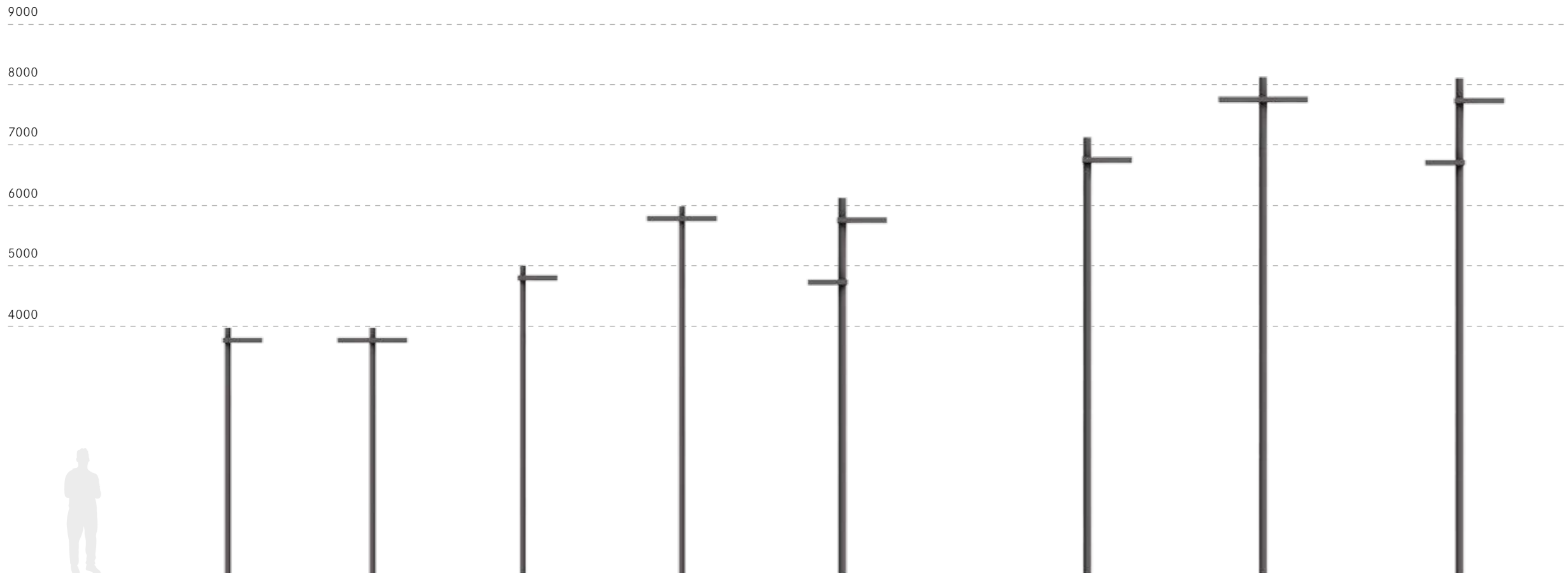
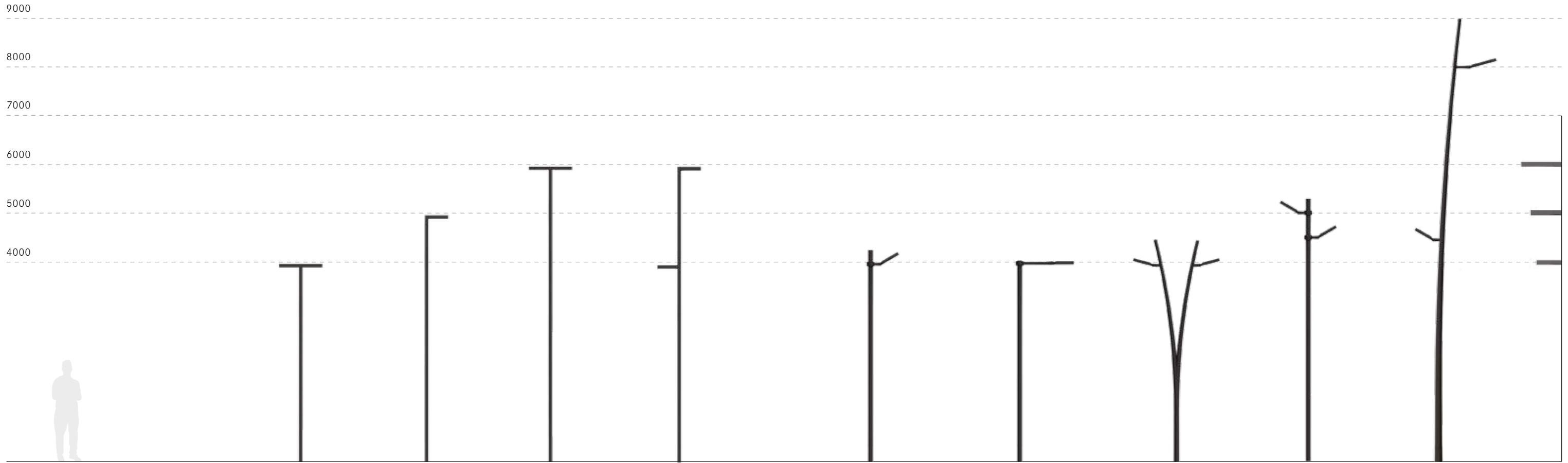
4-Wege-Stecker IP68



Lit

Cariboni





Lit Flood P. 98

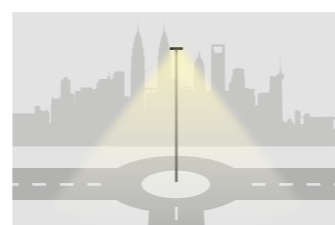
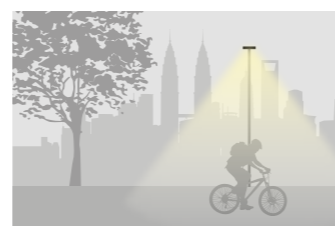
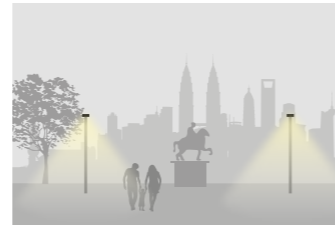


220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK10	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 Main voltage variation DALI CLO on request Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

Installazione: palo Ø 60mm, parete

Installation: pole Ø 60mm, wall

Installation: Mast Ø 60mm, Wand

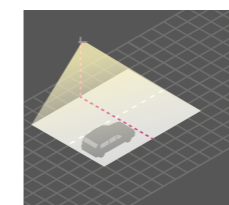


2425-19915 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

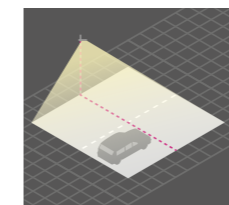
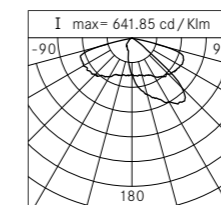
≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
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Ottiche asimmetriche stradali

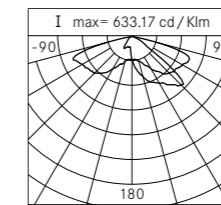
Street asymmetrical optics Optik asymmetrisch straßenleuchte



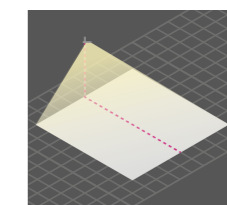
ME-03 (L/H = 1.1)



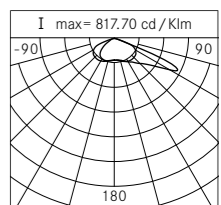
LA-02 (L/H = 1.25)



















Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



LT-62 (L/H = 2)



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

	Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen		Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off
	CRI≥70 SMCD=4 <i>CRI≥70 SMCD=4</i> CRI≥70 SMCD=4		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C
	Elevata resistenza agli urti (IK10) <i>Maximum impact resistance (IK10)</i> Maximum Stoßfestigkeitsgrad (IK10)		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Precablaggio <i>Pre-wiring</i> Vorverkabelung		Dimensioni compatte <i>Dimensions compact</i> Kompakten Abmessungen
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten		Flicker free <i>Flicker free</i> Flicker free
	Sistema acqua stop <i>Water stop system</i> Wasserstopp-System				

**Orientabilità**

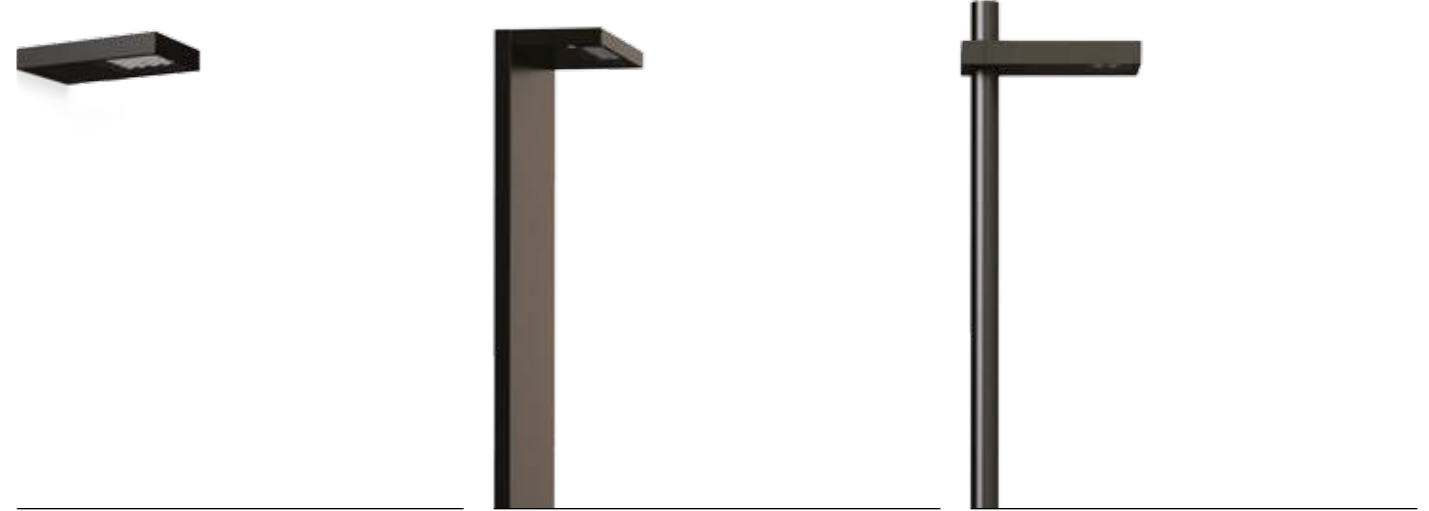
Inclinazione -90°. Sistema di puntamento e blocco in regolazione continua. Cavo e dispositivo di connessione elettrica integrato nel sistema di fissaggio.

Orientability

Tilt -90°. Continuously-adjustable pointing and locking system. Cable and electrical connection device integrated into the fastening system.

Ausrichtbarkeit

Neigung -90°. Ausrichtungssystem und Blockiervorrichtung mit stufenloser Regulierung. Kabel und Vorrichtung für den elektrischen Anschluss im Befestigungssystem integriert.

**Design sistemico**

Le differenti modalità di installazione e l'orientabilità dei prodotti rispondono alle specifiche richieste funzionali e architettoniche di ogni contesto urbano. La possibilità di combinare ogni distribuzione fotometrica con i differenti accessori di fissaggio consente ai progettisti di illuminare ogni spazio urbano con originali configurazioni di sistema. I prodotti della linea Lit possono essere installati senza necessità di aprire l'apparecchio. Il prodotto infatti è fornito pre-cablato per un'installazione semplice, veloce e sicura.

Systemic design

The various modes of installation and the orientability of the product respond to specific functional and architectural requirements of each urban context. The possibility to combine each photometric distribution with various mounting accessories allows designers to illuminate differing urban spaces with original system configurations. The products from the Lit line can be installed without the need to open the units. The product is, in fact, supplied pre-wired, permitting simple, rapid and safe installation.

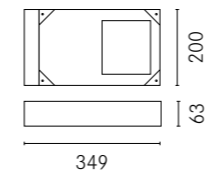
Systemisches Design

Die verschiedenen Installationsmodalitäten und die Ausrichtbarkeit der Produkte entsprechen den spezifischen funktionellen und architektonischen Anforderungen jedes städtischen Kontextes. Die Möglichkeit, jede photometrische Verteilung mit den verschiedenen Befestigungszubehörteilen zu kombinieren, ermöglicht es den Entwerfern, jeden städtischen Raum mit originellen Systemkonfigurationen zu beleuchten. Die Produkte der Lit-Produktreihe können installiert werden, ohne dass das Gerät geöffnet werden muss. Das Produkt wird in der Tat vorverkabelt für eine einfache, schnelle und sichere Installation geliefert.

220 240V	50 60Hz	CL II	IP66	IK10
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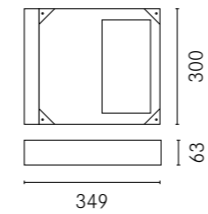


Lit wall small

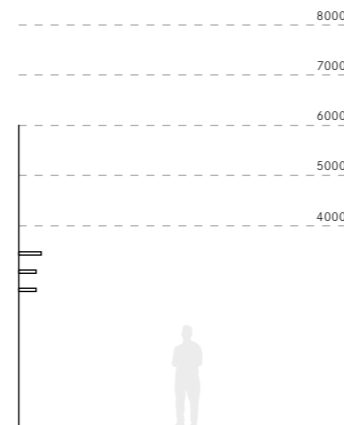


Max weight: 4.00kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.02m²

Lit wall medium



Max weight: 5.50kg
 Max exposed surface: 0.10m²
 Lateral exposed surface: 0.02m²



Lit S
06LT6

Led (source flux):
 Ref. @700mA @4000K Ref. @700mA @3000K
 5165lm 31W 4295lm 31W

A4	A4
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100

C

Smart Lighting

Custom programmable virtual midnight

HM4

Lit M
06LT7

Led (source flux):
 Ref. @700mA @4000K Ref. @700mA @3000K
 10115lm 62W 8415lm 62W

A8	A8
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100

C

Smart Lighting

Custom programmable virtual midnight

HM4

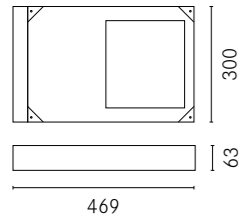
Esempio *Example* Beispiel

06LT7	A8	0	0	A0	C	HM4
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Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

Lit Wall

Lit wall large

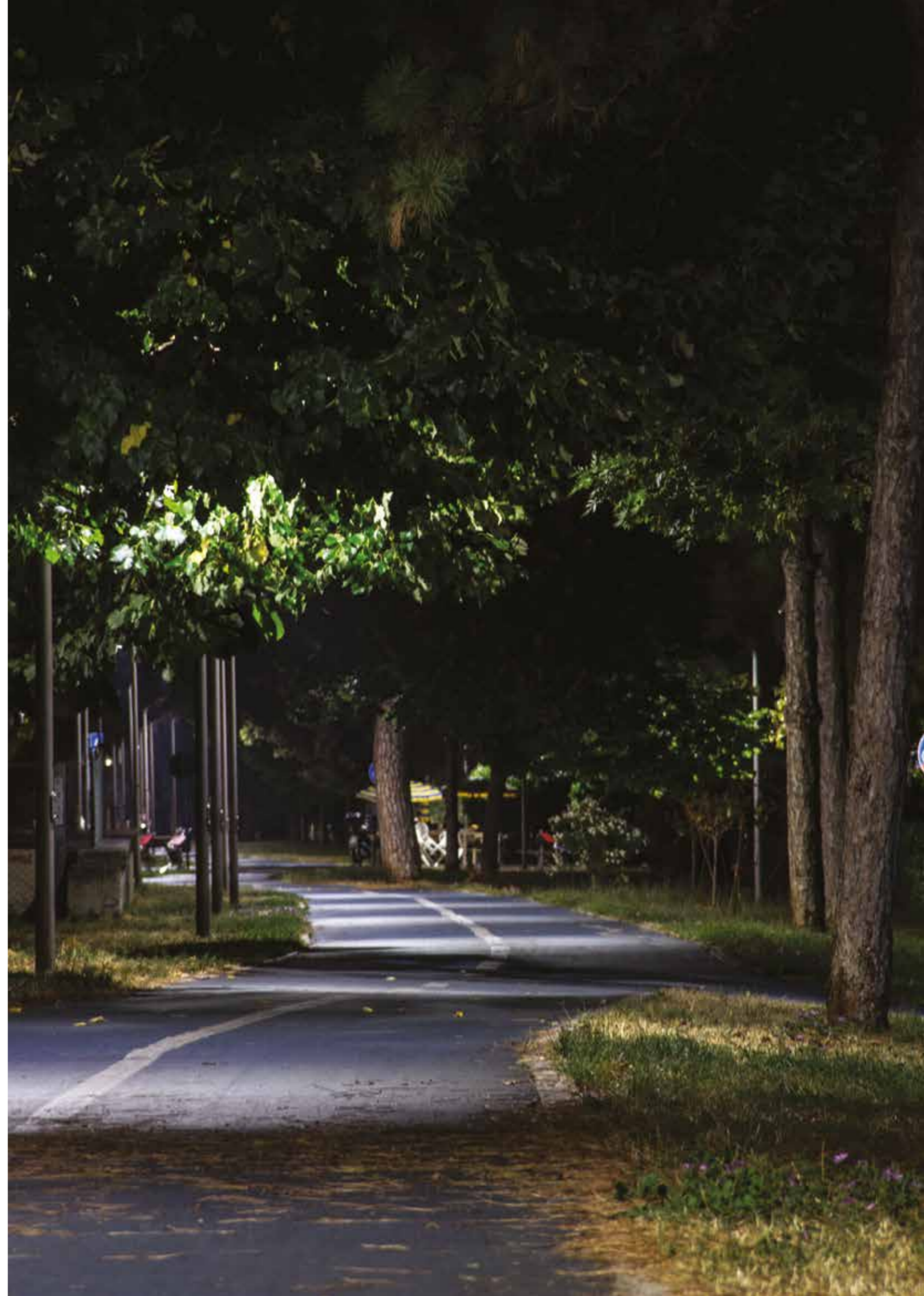


Max weight: 7.00kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.03m²

Lit L		
06LT8		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
19915lm 124W	16570lm 124W	
B6	B6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

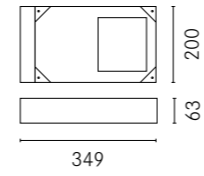
Esempio *Example* Beispiel

06LT8	B6	0	0	A0	C	HM4
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220 240V	50 60Hz	CL II	IP66	IK10
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Lit poles small



Max weight: 5.50kg
 Max exposed surface: 0.08m²
 Lateral exposed surface: 0.028m²

Lit S
06LT6

Led (source flux):
 Ref. @700mA @4000K Ref. @700mA @3000K
 5165lm 31W 4295lm 31W

A4	A4
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

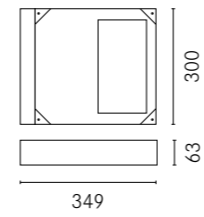
Colors

Sablé100
C

Smart Lighting

Custom programmable virtual midnight
HM4

Lit poles medium



Max weight: 7.50kg
 Max exposed surface: 0.13m²
 Lateral exposed surface: 0.028m²

Lit M
06LT7

Led (source flux):
 Ref. @700mA @4000K Ref. @700mA @3000K
 10115lm 62W 8415lm 62W

A8	A8
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100
C

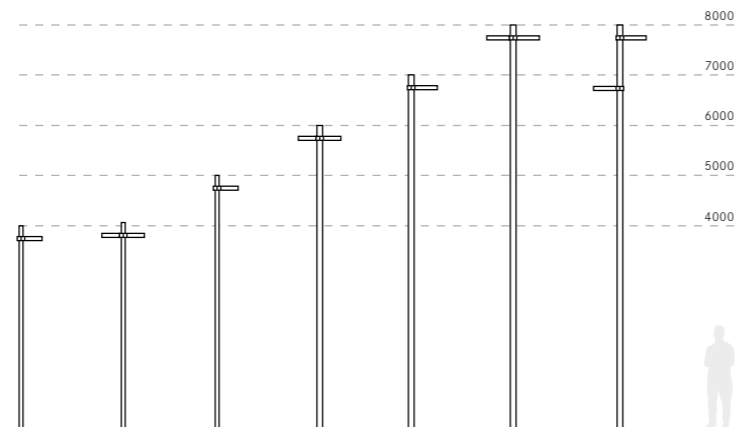
Smart Lighting

Custom programmable virtual midnight
HM4

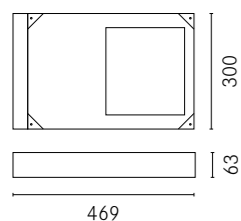
Esempio Example Beispiel

06LT7	A8	0	0	A0	C	HM4
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Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



Lit poles large



Max weight: 9.00kg
 Max exposed surface: 0.17m²
 Lateral exposed surface: 0.038m²

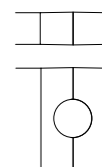
Lit L		
06LT8		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
19915lm 124W	16570lm 124W	
B6	B6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Esempio *Example* Beispiel

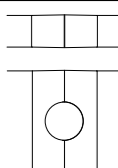
06LT8	B6	0	0	A0	C	HM4
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Accessori *Accessories* Zubehör Lit Poles small**06LT910C0 - Sablé100**

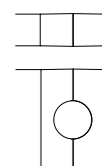
B119 Collare singolo per pali Ø76mm
B119 Single collar for poles Ø76mm
 B119 Einzelhalsband für Masten Ø76mm

**06LT911C0 - Sablé100**

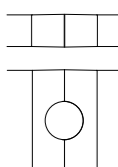
B120 Collare doppio per pali Ø76mm
B120 Double collar for poles Ø76mm
 B120 Doppelhalsband für Masten Ø76mm

**06LT929C0 - Sablé100**

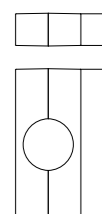
B166 Collare singolo per pali Ø60mm
B166 Single collar for poles Ø60mm
 B166 Einzelhalsband für Masten Ø60mm

**06LT930C0 - Sablé100**

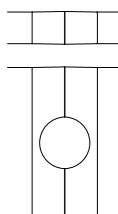
B167 Collare doppio per pali Ø60mm
B167 Double collar for poles Ø60mm
 B167 Doppelhalsband für Masten Ø60mm

Accessori *Accessories* Zubehör Lit Poles medium / large**06LT912C0 - Sablé100**

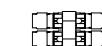
B121 Collare singolo per pali Ø102mm
B121 Single collar for poles Ø102mm
 B121 Einzelhalsband für Masten Ø102mm

**06LT913C0 - Sablé100**

B122 Collare doppio per pali Ø102mm
B122 Double collar for poles Ø102mm
 B122 Doppelhalsband für Masten Ø102mm

**06KS909C0**

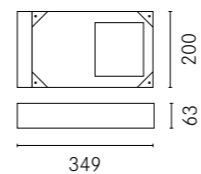
Connettore 4 vie IP68
4-way connector IP68
 4-Wege-Stecker IP68



220 50
240V 60Hz CL II IP66 IK10



Lit brackets and poles small



Max weight: 5.50kg
Max exposed surface: 0.08m²
Lateral exposed surface: 0.028m²

Lit S

06LT6

Led (source flux):
Ref. @ 700mA @ 4000K Ref. @ 700mA @ 3000K
5165lm 31W 4295lm 31W

A4

A4

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100

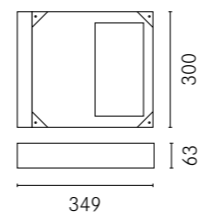
C

Smart Lighting

Custom programmable virtual midnight

HM4

Lit brackets and poles medium



Max weight: 7.50kg
Max exposed surface: 0.13m²
Lateral exposed surface: 0.028m²

Lit M

06LT7

Led (source flux):
Ref. @ 700mA @ 4000K Ref. @ 700mA @ 3000K
10115lm 62W 8415lm 62W

A8

A8

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

ME-03	LA-02	LT-62
A0	A1	A2

Colors

Sablé100

C

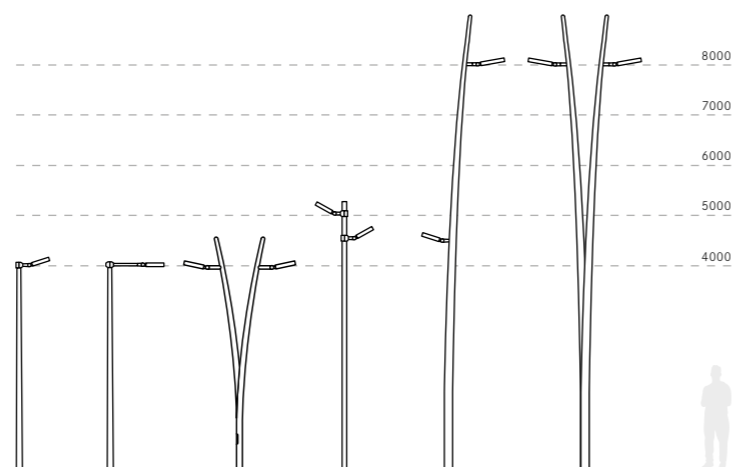
Smart Lighting

Custom programmable virtual midnight

HM4

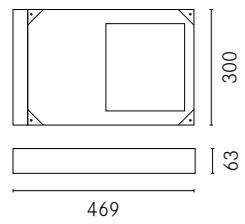
Esempio Example Beispiel

06LT7	A8	0	0	A0	C	HM4
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Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

Lit brackets and poles large



Max weight: 9.00kg
 Max exposed surface: 0.17m²
 Lateral exposed surface: 0.038m²

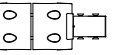
Lit L 06LT8		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
19915lm 124W	16570lm 124W	
B6	B6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Esempio *Example* Beispiel

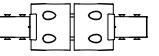
06LT8	B6	0	0	A0	C	HM4
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Accessori *Accessories* Zubehör Lit Brackets and poles**06AK916C0 - Sablé100**

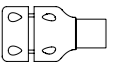
B139 Anello palo Ø102mm singolo
B139 Single ring for Ø102mm pole
 B139 Einzelring für Mast Ø102mm

**06AK917C0 - Sablé100**

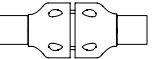
B140 Anello palo Ø102mm doppio
B140 Double ring for Ø102mm pole
 B140 Doppelring für Mast Ø102mm

**01AK903C0 - Sablé100**

L3 Giunto singolo per palo Ø60-76mm
L3 Simple joint kit for post Ø60-76mm
 L3 Kit Einzel-Mastanschluss Ø60-76mm

**01AK904C0 - Sablé100**

L4 Giunto doppio per palo Ø60-76mm
L4 Double joint kit for post Ø60-76mm
 L4 Kit Doppel-Mastanschluss Ø60-76mm



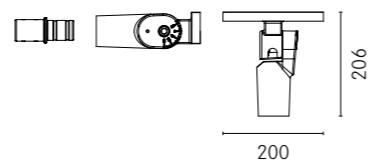
Lit Brackets and poles

06LT903C0 - Sablé100

B112 Giunto orientabile LIT S braccio Ø60mm

B112 Adjustable joint LIT S for arm Ø60mm

B112 Justierbares Gelenk LIT S für Arm Ø60mm

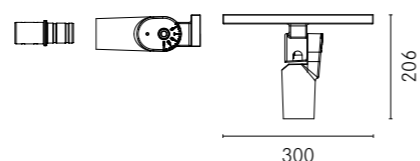


06LT904C0 - Sablé100

B113 Giunto orientabile LIT M/L braccio Ø60mm

B113 Adjustable joint LIT M/L for arm Ø60mm

B113 Justierbares Gelenk LIT M/L für Arm Ø60mm

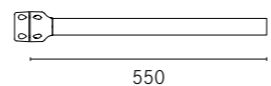


01AK921C0 - Sablé100

B1 Braccio tubolare singolo Ø60mm per palo Ø60-76mm

B1 Arm tubular Ø60mm for Ø60-76mm pole

B1 Arm Rohr Ø60mm für Masten Ø60-76mm

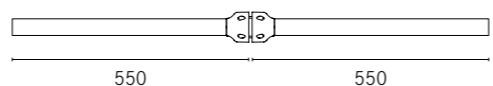


01AK922C0 - Sablé100

B2 Braccio tubolare doppio Ø60mm per palo Ø60-76mm

B2 Double arm tubular Ø60mm for Ø60-76mm pole

B2 Doppelarm Rohr Ø60mm für Masten Ø60-76mm

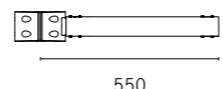


06AK907C0 - Sablé100

B155 Braccio singolo L 550mm palo Ø102mm

B155 Single arm L 550mm pole Ø102mm

B155 Einarmig L 550mm Mast Ø102mm

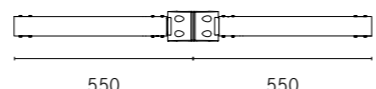


06AK909C0 - Sablé100

B157 Braccio doppio L 550mm palo Ø102mm

B157 Double arm L 550mm pole Ø102mm

B157 Doppelarm L 550mm Mast Ø102mm



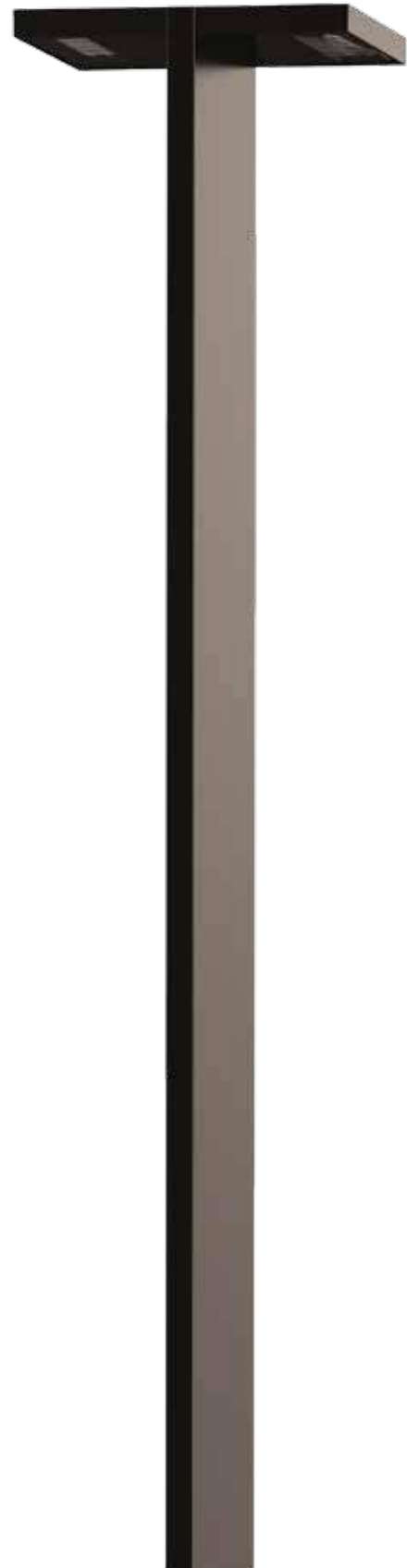
06KS909C0

Connettore 4 vie IP68

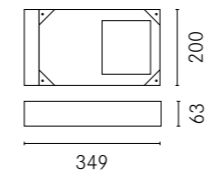
4-way connector IP68

4-Wege-Stecker IP68





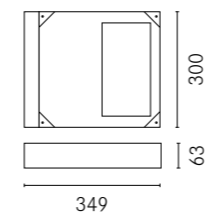
Lit system small (H= 4 m)



Max weight: 4.00kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.02m²

Lit S		
06LT6		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
5165lm 31W	4295lm 31W	
A4	A4	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Lit system medium (H= 6 m)

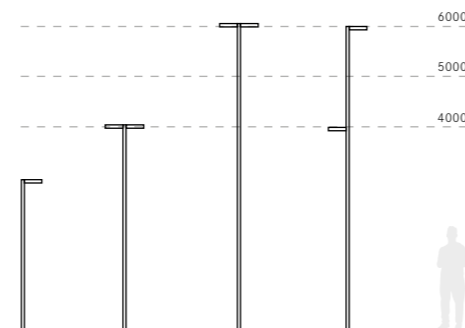


Max weight: 5.00kg
 Max exposed surface: 0.10m²
 Lateral exposed surface: 0.02m²

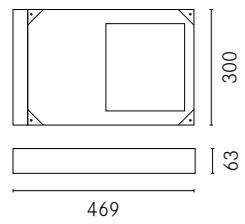
Lit M		
06LT7		
Led (source flux):		
Ref. @700mA @4000K	Ref. @700mA @3000K	
10115lm 62W	8415lm 62W	
A8	A8	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Esempio Example Beispiel

06LT7	A8	0	0	A0	C	HM4
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Lit system large (H= 6m)



Max weight: 7.00kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.03m²

Lit L		
06LT8		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
19915lm 124W	16570lm 124W	
B6	B6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-03	LA-02	LT-62
A0	A1	A2
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

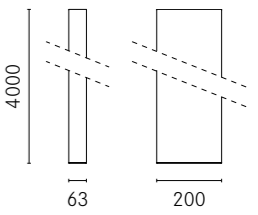
Esempio Example Beispiel

06LT8	B6	0	0	A0	C	HM4
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Accessori Accessories Zubehör Lit System small

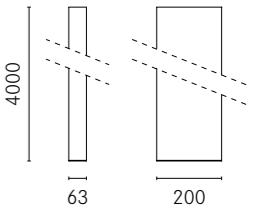
06LT914C0 - Sablé100

Palo in alluminio estruso H 4m
 Aluminium extruded pole H 4m
 Mast aus extrudiertem Aluminium H 4m



06LT926C0 - Sablé100

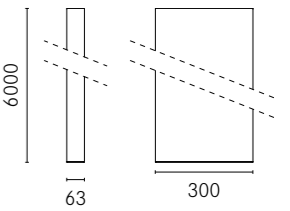
Palo in alluminio estruso H 4m 2xLit small
 Aluminium extruded pole H 4m 2xLit small
 Mast aus extrudiertem Aluminium H 4m 2xLit small



Accessori Accessories Zubehör Lit System medium

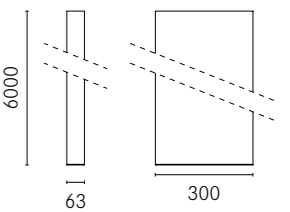
06LT915C0 - Sablé100

Palo in alluminio estruso H 6m
 Aluminium extruded pole H 6m
 Mast aus extrudiertem Aluminium H 6m



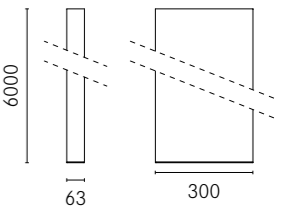
06LT927C0 - Sablé100

Palo in alluminio estruso H 6m 2xLit medium/large
 Aluminium extruded pole H 6m 2xLit medium/large
 Mast aus extrudiertem Aluminium H 6m 2xLit medium/large



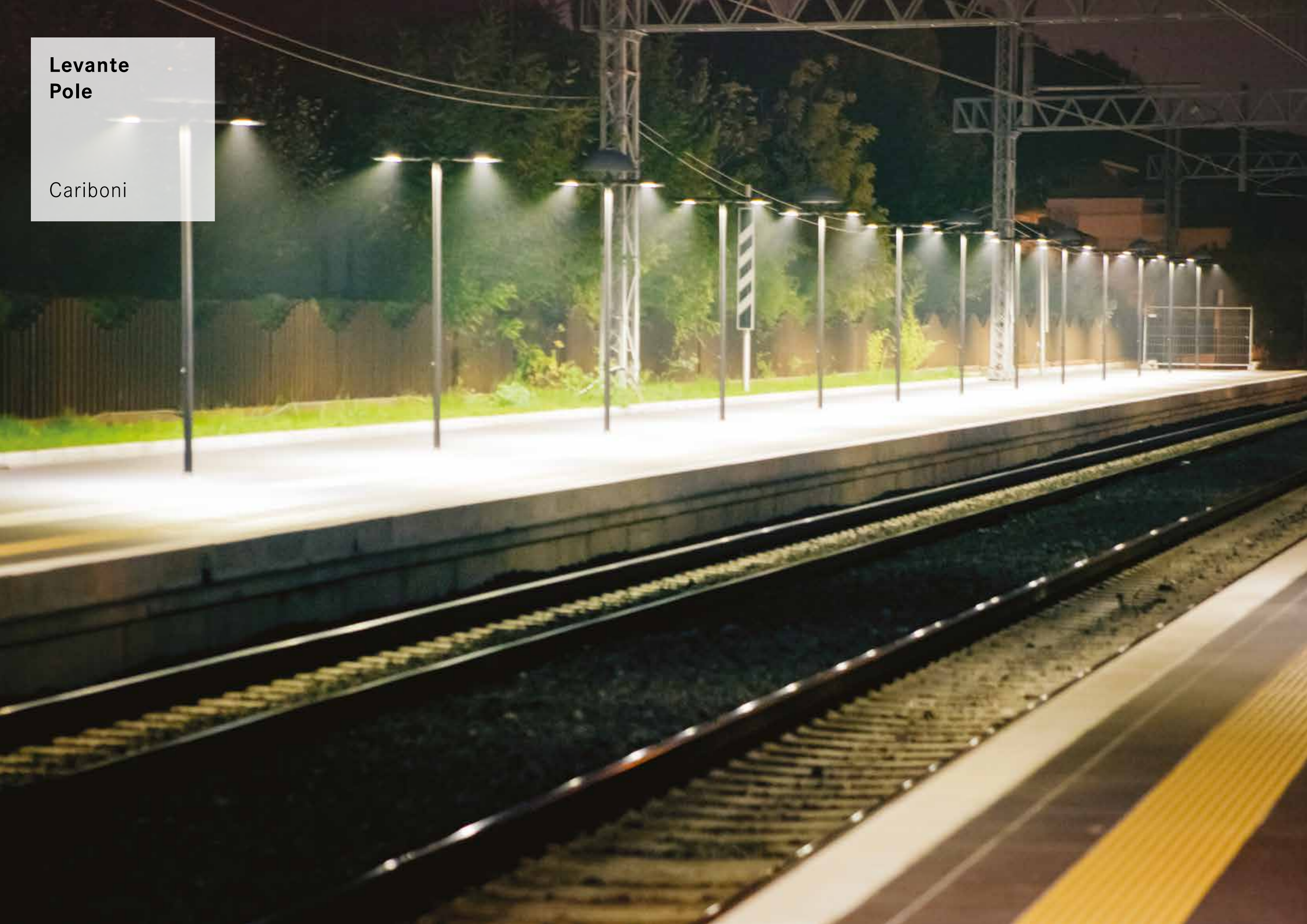
06LT928C0 - Sablé100

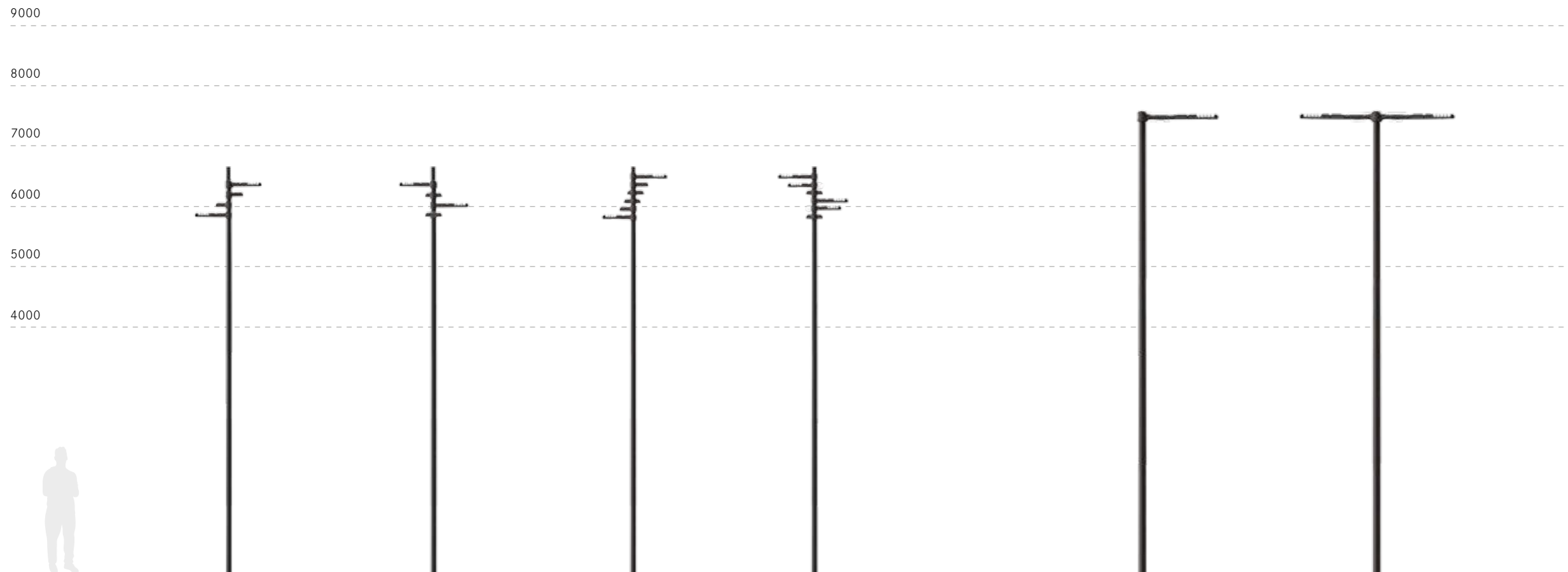
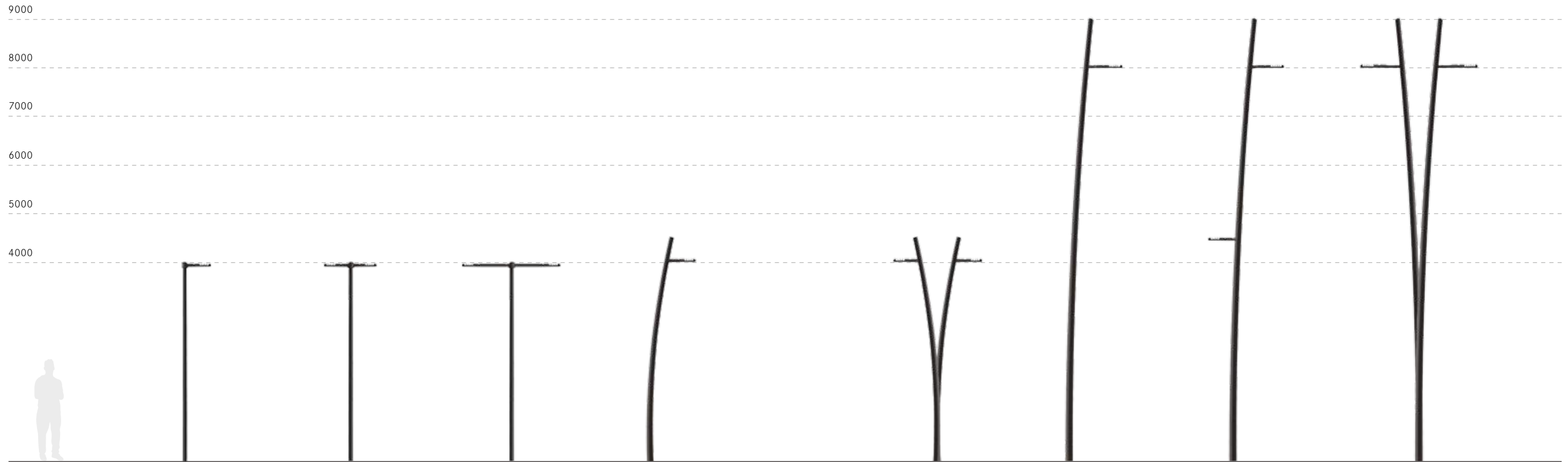
Palo in alluminio estruso H 4m/6m 2xLit medium/large
 Aluminium extruded pole H 4m/6m 2xLit medium/large
 Mast aus extrudiertem Aluminium H 4m/6m 2xLit medium/large



**Levante
Pole**

Cariboni

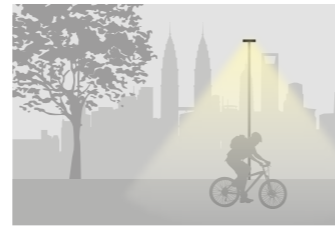
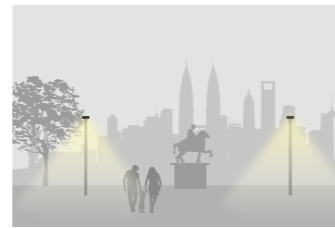




Levante Flood P. 90



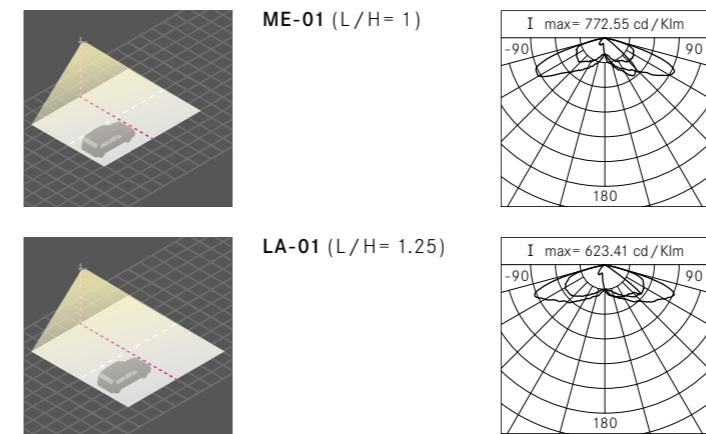
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK07	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 PLC on request 1-10V on request DALI on request Pilot line on request Main voltage variation on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



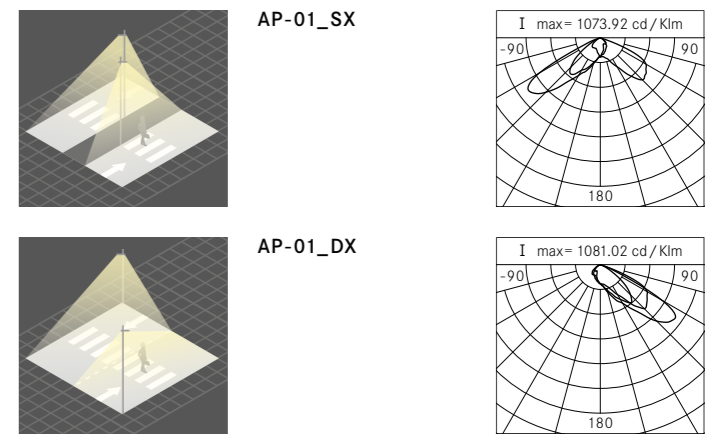
1700-15885 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

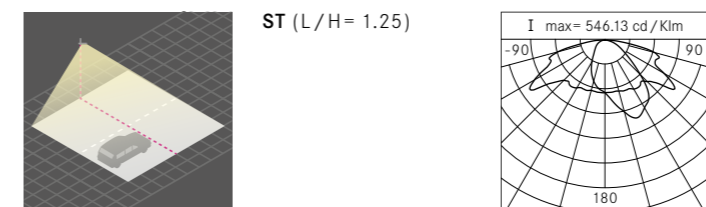
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



Ottiche per attraversamenti pedonali
Pedestrian crossing optics Optik für fußgängerüberwege



Ottiche stradali
Street optics Optik straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo, braccio
Installation: pole, arm
Installation: Mast, Arme

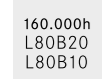
Levante Pole



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage



160.000h
L80B20
L80B10
Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Ottica attraversamenti pedonali
Optics for pedestrian crossings
Optik für Fußgängerüberwege



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Separabilità delle componenti
Separable components
Trennbare Komponenten



2200K
Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K



lm/W
Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



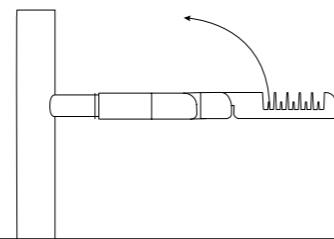
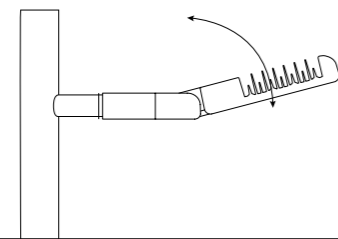
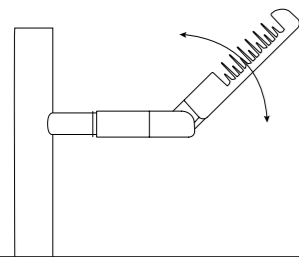
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



4K
ULTRA
HD
TLCI>85
TLCI>85
TLCI>85



Orientabilità

Inclinazione ±90°.
Sistema di regolazione in step da 15°.
Cavo e dispositivo di connessione elettrica integrato nel sistema di fissaggio.

Orientability

Tilt ±90°.
System of adjustment in steps of 15°. Cable and electrical connection device integrated into the fastening system.

Ausrichtbarkeit

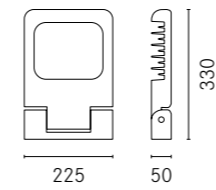
Neigung ±90°.
Einstellsystem mit 15°-Step. Kabel und Vorrichtung für den elektrischen Anschluss im Befestigungssystem integriert.



230V 50Hz CL II IP66 IK07



Levante Poles poles small



Max weight: 3kg
 Max exposed surface: 0.08m²
 Lateral exposed surface: 0.0165m²

Levante S
06LV3

Led (source flux) Ref. @700mA @4000K

4090lm 24W B2	6075lm 36W B8
-------------------------	-------------------------

Led (source flux) Ref. @700mA @3000K

3900lm 24W B2	5790lm 36W B8
-------------------------	-------------------------

mA

700	525	350
0		

K

4000	3000	2200*	*Only for 36W
0	9	1	

Optics

ST 8

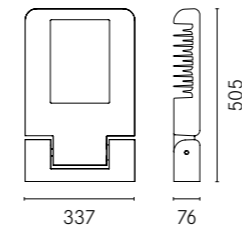
Colors

RAL9006 A	Sablé100 C
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Smart Lighting

Preset virtual midnight HM3

Levante Poles poles medium



Max weight: 8kg
 Max exposed surface: 0.17m²
 Lateral exposed surface: 0.035m²

Levante M
06LV6

Led (source flux) Ref. @700mA @4000K

8085lm 48.5W C4	12060lm 72.5W D6	15885lm 96W E8
---------------------------	----------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

7705lm 48.5W C4	11500lm 72.5W D6	15145lm 96W E8
---------------------------	----------------------------	--------------------------

mA

700	525	350
0		

K

4000	3000
0	9

Optics

LA-01 31	ME-01 32	AP-SX 34	AP-DX 36
--------------------	--------------------	--------------------	--------------------

Colors

RAL9006 A	Sablé100 C
---------------------	----------------------

Smart Lighting

Preset virtual midnight HM3

Esempio Example Beispiel

06LV6	C4	0	0	31	A	HM3
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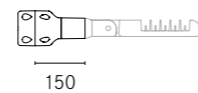
Accessori Accessories Zubehör Levante Pole small / medium

06AK903A0 - RAL9006 / 06AK903C0 - Sablé 100

L3 Kit giunto singolo per palo Ø60-76mm

L3 Kit simple joint for post Ø60-76mm

L3 Kit Einzelmastanschlussstück für Ø60-76mm Mast

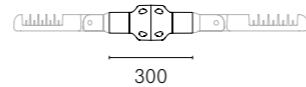


06AK904A0 - RAL9006 / 06AK904C0 - Sablé 100

L4 Kit giunto doppio per palo Ø60-76mm

L4 Kit double joint for Post Ø60-76mm

L4 Kit Doppelmastanschlussstück für Ø60-76mm Mast

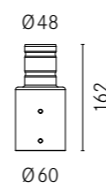


06AK910A0 - RAL9006 / 06AK910C0 - Sablé 100

L12 Giunto testa palo Ø60-76mm

L12 Joint for post top Ø60-76mm

L12 Mastanschlussstück für Ø60-76mm

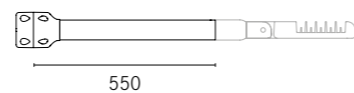


06AK921A0 - RAL9006 / 06AK921C0 - Sablé 100

B1 Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm

B1 Arm tubular Ø60mm L 1000mm for Ø60-76mm pole

B1 Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm

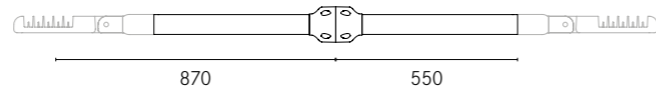


06AK922A0 - RAL9006 / 06AK922C0 - Sablé 100

B2 Braccio tubolare doppio Ø60mm L 1000mm per palo Ø60-76mm

B2 Double arm tubular Ø60mm L 1000mm for Ø60-76mm pole

B2 Doppelarm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



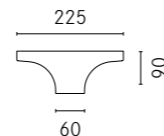
Accessori Accessories Zubehör Levante small

06AK952A0 - RAL9006 / 06AK952C0 - Sablé 100

L9 Giunto per palo Ø60mm

L9 Die cast joint for post-top installation Ø60mm

L9 Druckguss Mastverbindungstück für Ø60mm Mast



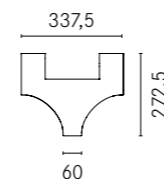
Accessori Accessories Zubehör Levante medium

06AK954A0 - RAL9006 / 06AK954C0 - Sablé 100

L10 Giunto per palo Ø60mm

L10 Die cast joint for post-top installation Ø60mm

L10 Druckguss Mastverbindungstück für Ø60mm Mast

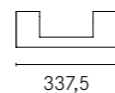


06AK955A0 - RAL9006 / 06AK955C0 - Sablé 100

L11 Giunto parete

L11 Joint for wall

L11 Wandverbindungstück

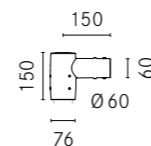


06AK905C0 - Sablé 100

B153 Giunto testa palo Ø60mm

B153 Joint post top Ø60mm

B153 Druckguss Mastverbindungstück Ø60mm Mast

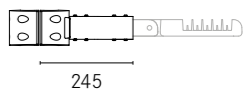


06AK906C0 - Sablé 100

B154 Braccio singolo L 245mm palo Ø102mm

B154 Single arm L 245mm pole Ø102mm

B154 Einarmig L 245mm Mast Ø102mm

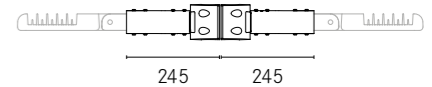


06AK908C0 - Sablé 100

B156 Braccio doppio L 245mm palo Ø102mm

B156 Double arm L 245mm pole Ø102mm

B156 Doppelarm L 245mm Mast Ø102mm

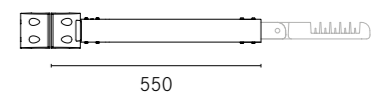


06AK907C0 - Sablé 100

B155 Braccio singolo L 550mm palo Ø102mm

B155 Single arm L 550mm pole Ø102mm

B155 Einarmig L 550mm Mast Ø102mm

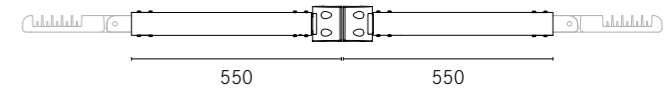


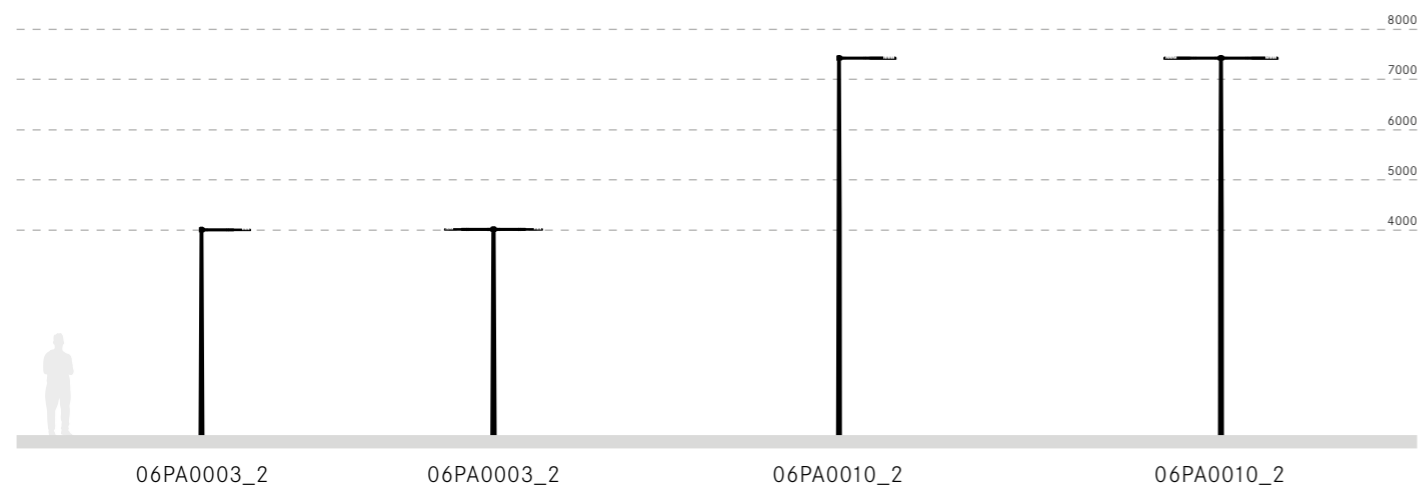
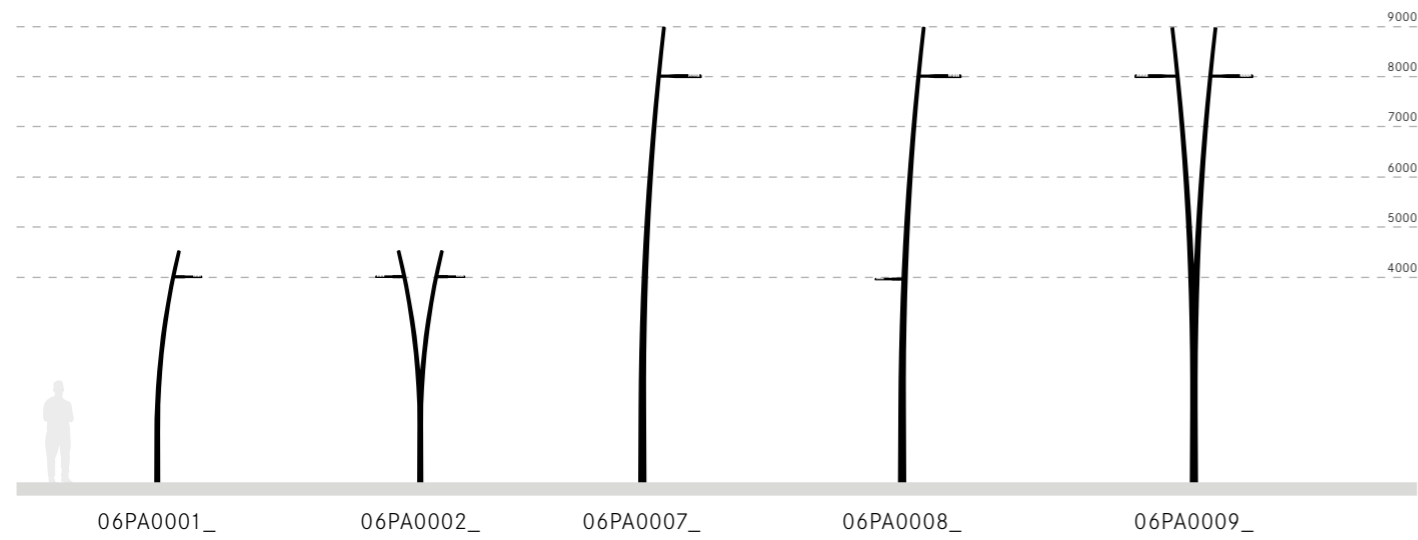
06AK909C0 - Sablé 100

B157 Braccio doppio L 550mm palo Ø102mm

B157 Double arm L 550mm pole Ø102mm

B157 Doppelarm L 550mm Mast Ø102mm





Accessori Accessories Zubehör Levante Pole System small

06PA0001A - RAL9006

06PA0001C - Sablé100

Palo curvo, tronchetto Ø60mm H.F.T. 4m
 Curved pole with single arm Ø60mm H.F.T. 4m
 Gekrümmter Mast, Einzelarm Ø60mm H.F.T. 4m

06PA0002A - RAL9006

06PA0002C - Sablé100

Palo curvo, due tronchetti Ø60mm H.F.T. 4m
 Curved pole with double arm Ø60mm H.F.T. 4m
 Gekrümmter Mast, Doppelarm Ø60mm H.F.T. 4m

06PA0003A2 - RAL9006

06PA0003C2 - Sablé100

Palo conico cimapalo Ø60mm H.F.T. 4m
 Conical pole pole top Ø60mm H.F.T. 4m
 Konischer Mast, Mastkopf Ø60mm H.F.T. 4m

Accessori Accessories Zubehör Levante Pole System medium

06PA0007A - RAL9006

06PA0007C - Sablé100

Palo conico curvo singolo, tronchetto Ø60mm H.F.T. 8m
 Conical curved pole with single arm Ø60mm H.F.T. 8m
 Gebogener Konischer Mast, mit Einzelarm Ø60mm H.F.T. 8m

06PA0008A - RAL9006

06PA0008C - Sablé100

Palo conico curvo singolo, due tronchetti Ø60mm H.F.T. 8m
 Conical curved pole with double arm Ø60mm H.F.T. 8m
 Gebogener Konischer Mast, mit Doppelarm Ø60mm H.F.T. 8m

06PA0009A - RAL9006

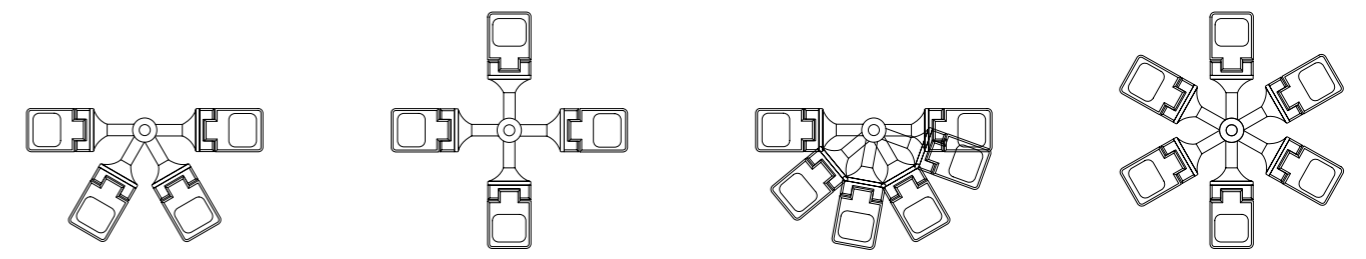
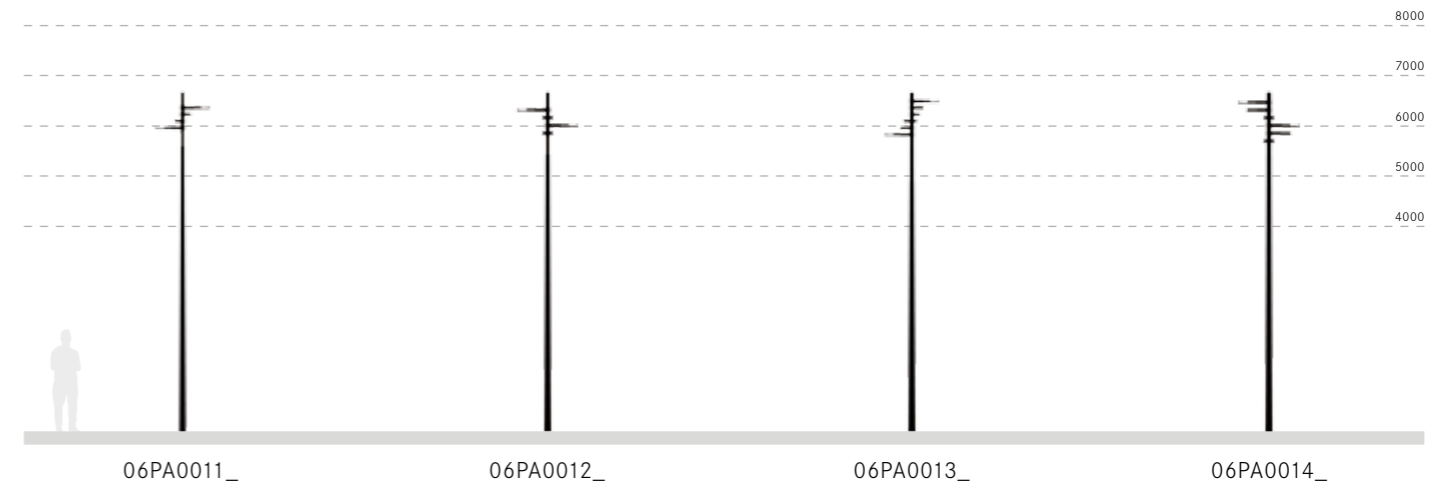
06PA0009C - Sablé100

Palo conico curvo doppio, due tronchetti Ø60mm H.F.T. 8m
 Conical curved pole with double arm Ø60mm H.F.T. 8m
 Gebogener Konischer Mast, mit Doppelarm Ø60mm H.F.T. 8m

06PA0010A2 - RAL9006

06PA0010C2 - Sablé100

Palo conico cimapalo Ø60mm H.F.T. 7.5m
 Conical pole pole top Ø60mm H.F.T. 7.5m
 Konischer Mast, Mastkopf Ø60mm H.F.T. 7.5m



Accessori Accessories Zubehör Levante Pole Flower Tower

06PA0011A - RAL9006 / 06PA0011C - Sablé100

Flower tower 4 Levante 180° H.F.T. 6.6m

06PA0012A - RAL9006 / 06PA0012C - Sablé100

Flower tower 4 Levante 360° H.F.T. 6.6m

06PA0013A - RAL9006 / 06PA0013C - Sablé100

Flower tower 6 Levante 180° H.F.T. 6.6m

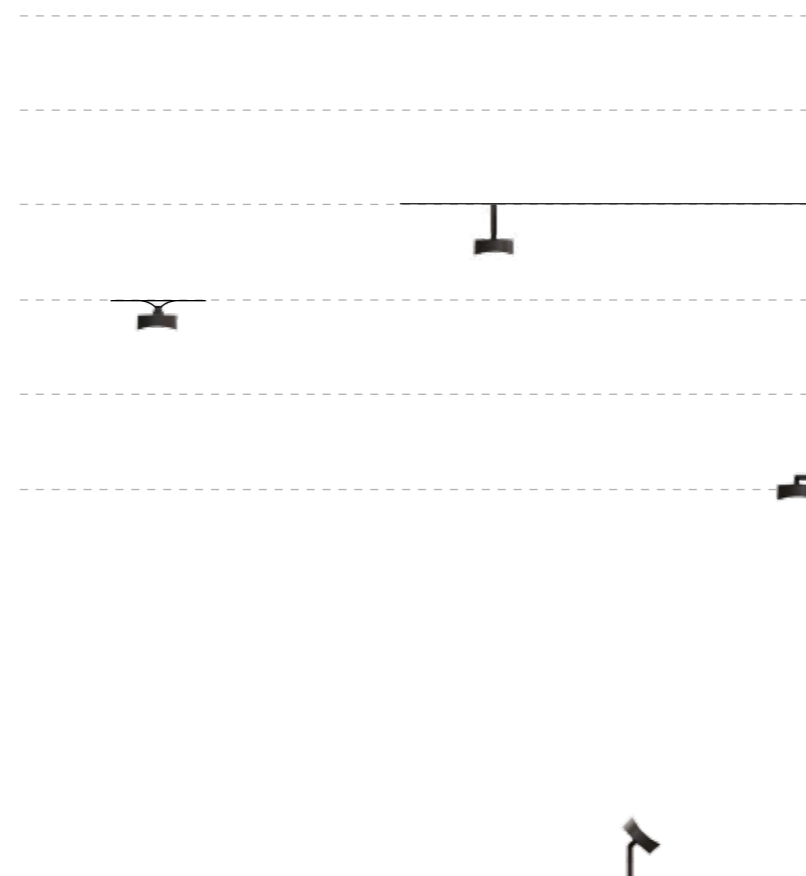
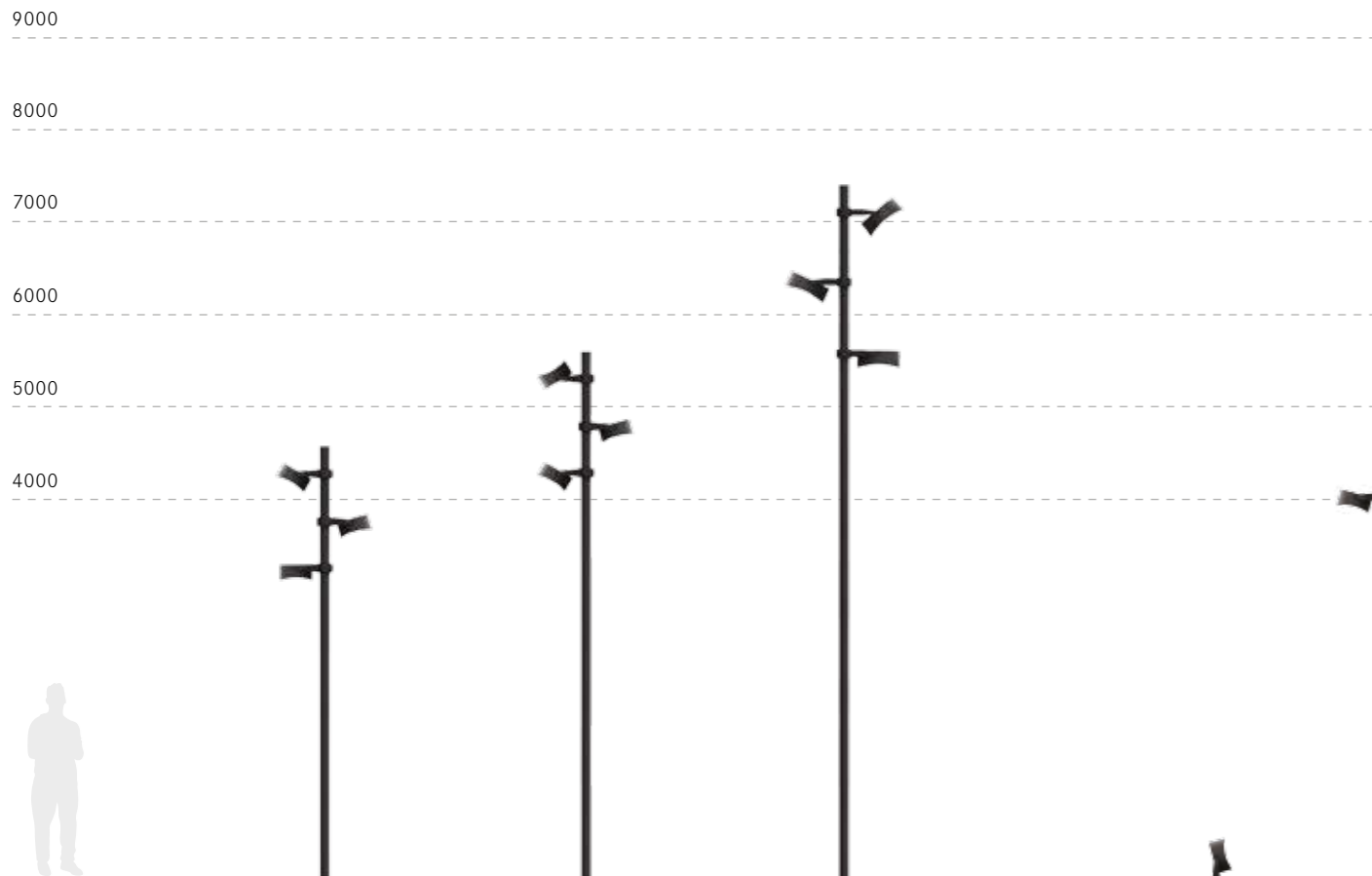
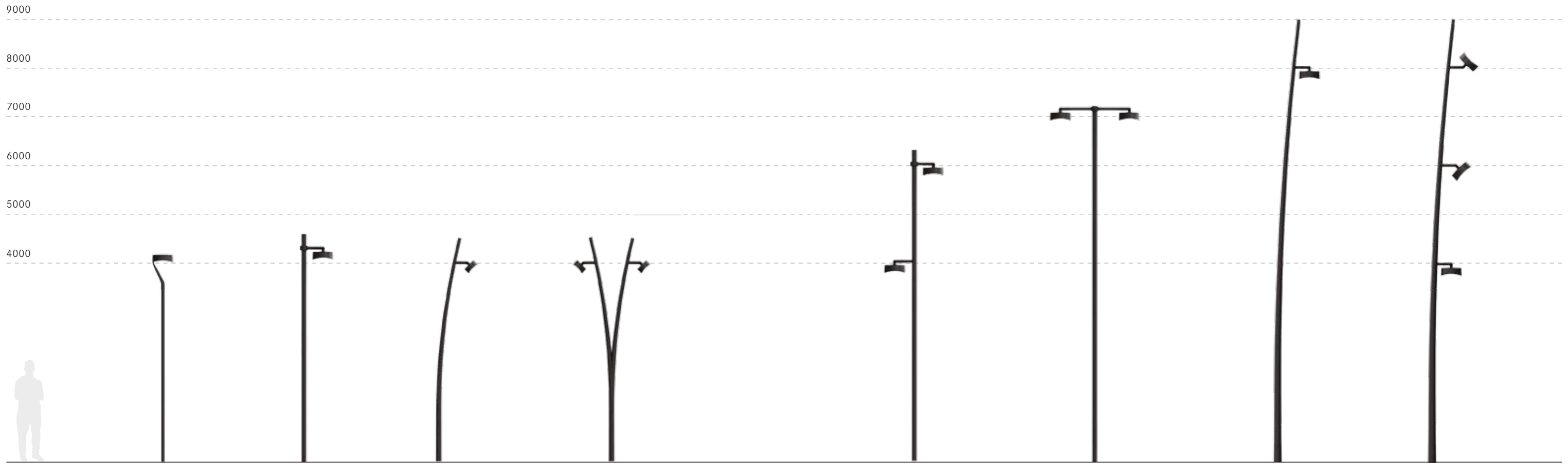
06PA0014A - RAL9006 / 06PA0014C - Sablé100

Flower tower 6 Levante 360° H.F.T. 6.6m

Kosmos

Cariboni





Kosmos Flood P. 82



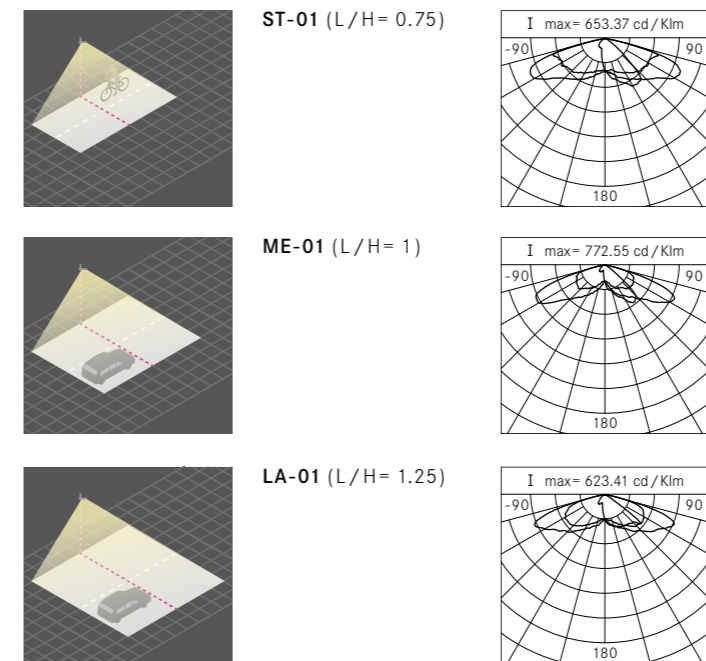
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 CLO on request DALI Main voltage variation Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



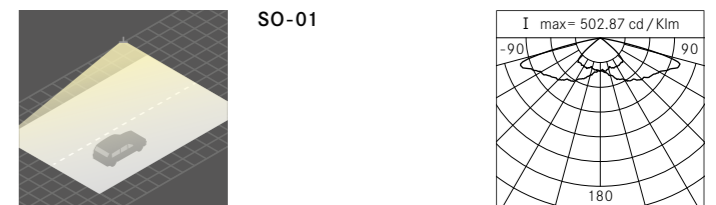
1700-11915lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

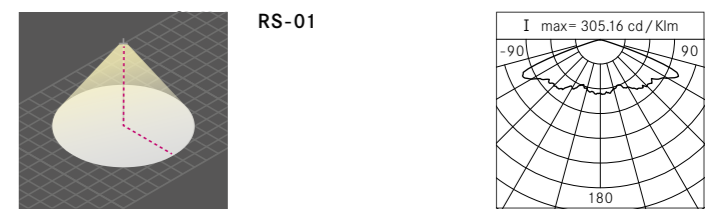
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



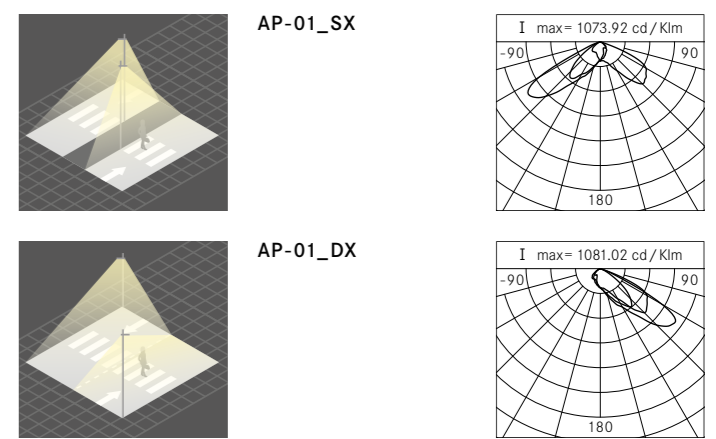
Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



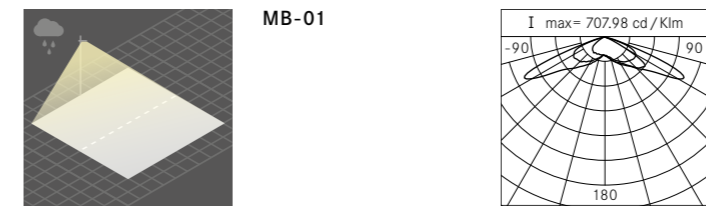
Ottiche rosimmetriche Rotosymmetrical optics Optik rosimmetrisch



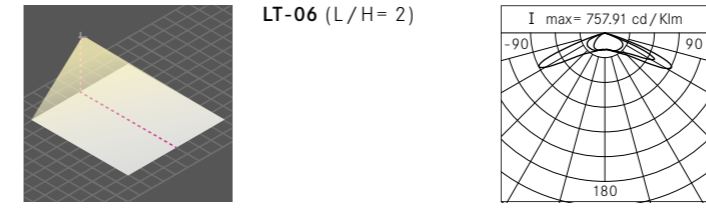
Ottiche per attraversamenti pedonali
Pedestrian crossing optics Optik für fußgängerüberwege



Ottiche per manto bagnato
Wet surface optics Optik asymmetrisch straßenleuchte



Ottiche asimmetriche Asymmetrical optics Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo, braccio, parete, tesata, soffitto
Installation: pole, arm, wall, string, ceiling
Installation: Mast, Arm, Wand, Drahtseil, Decke

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Kosmos



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Cut - Off
Cut - Off
Cut - Off



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



Precablaggio
Pre-wiring
Vorverkabelung



Ottica attraversamenti pedonali
Optics for pedestrian crossings
Optik für Fußgängerüberwege

2200K

Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K

lm/W

Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



Elevata resistenza agli urti (IK09)
Maximum impact resistance (IK09)
Maximum Stoßfestigkeitsgrad (IK09)

CLO

CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



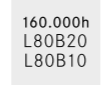
Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Ottica manto bagnato
Optics for wet surfaces
Optik für nasse Straßenbeläge



CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage



160.000h
L80B20
L80B10

Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



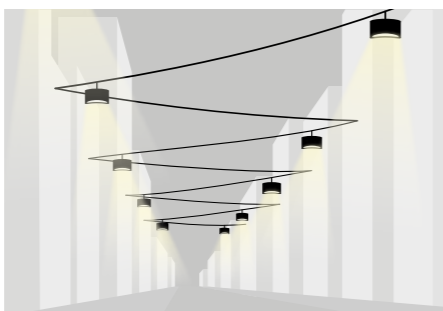
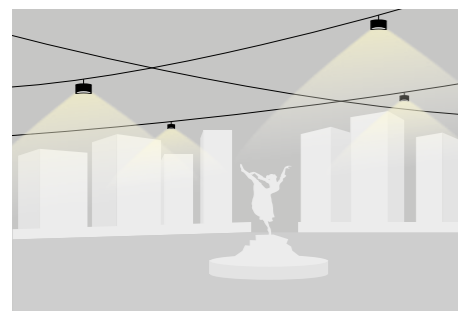
Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Design sistemico

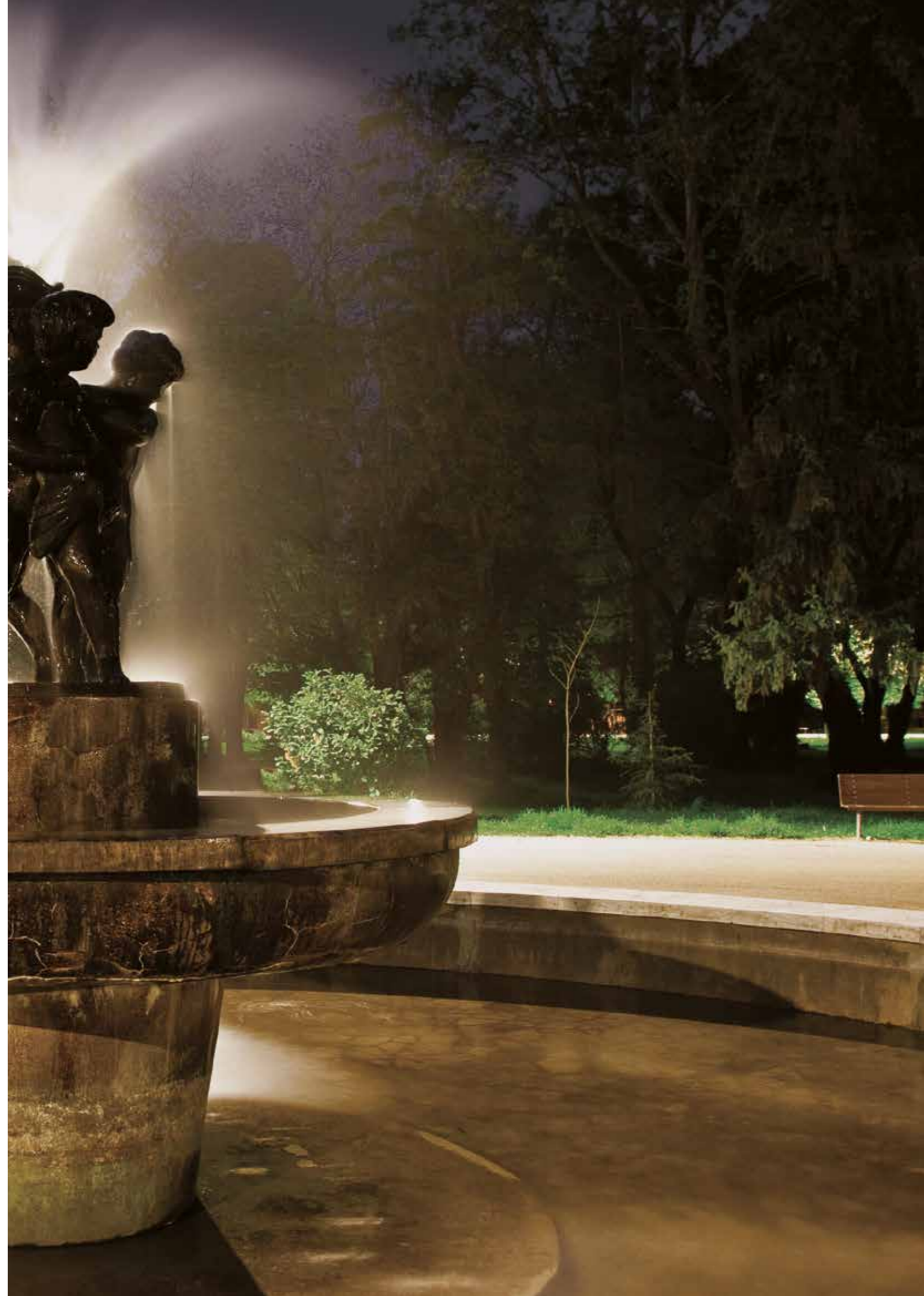
Le differenti modalità di installazione e l'orientabilità dei prodotti rispondono alle specifiche richieste funzionali e architettoniche di ogni contesto urbano. La possibilità di combinare ogni distribuzione fotometrica con i differenti accessori di fissaggio consente ai progettisti di illuminare ogni spazio urbano con originali configurazioni di sistema. I prodotti della linea Kosmos possono essere installati senza necessità di aprire l'apparecchio. Il prodotto infatti è fornito pre-cablato per un'installazione semplice, veloce e sicura.

Systemic design

The various modes of installation and the orientability of the products respond to specific functional and architectural requirements of each urban context. The possibility to combine each photometric distribution with various mounting accessories allows designers to illuminate differing urban spaces with original system configurations. The products from the Kosmos line can be installed without the need to open the units. The product is, in fact, supplied pre-wired, permitting simple, rapid and safe installation.

Systemisches Design

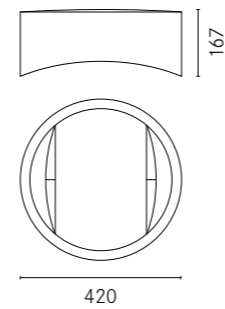
Die verschiedenen Installationsmodalitäten und die Ausrichtbarkeit der Produkte entsprechen den spezifischen funktionellen und architektonischen Anforderungen jedes städtischen Kontextes. Die Möglichkeit, jede photometrische Verteilung mit den verschiedenen Befestigungszubehörteilen zu kombinieren, ermöglicht es den Entwerfern, jeden städtischen Raum mit originellen Systemkonfigurationen zu beleuchten. Die Produkte der Kosmos-Reihe können installiert werden, ohne dass das Gerät geöffnet werden muss. Das Produkt wird in der Tat vorverkabelt für eine einfache, schnelle und sichere Installation geliefert.



220 240V	50 60Hz	CL II	IP66	IK09
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Kosmos Post top medium



Max weight: 7.5kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos M
06KS2

Led (source flux) Ref. @700mA @4000K

4070lm 24W B2	8045lm 48W C4	11915lm 72W D6
-------------------------	-------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

3885lm 24W B2	7670lm 48W C4	11360lm 72W D6
-------------------------	-------------------------	--------------------------

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9	2200* 1	*Only 48W and 72W Optics ME-01 / LA-01 / LT-06
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Optics

ST-01 30	ME-01 32	LA-01 31	RS-01 35	LT-06 37
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Colors

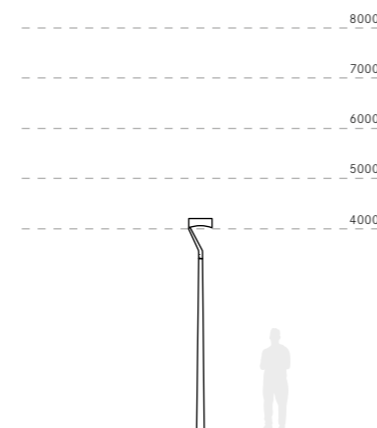
Sablé100 C

Smart Lighting

Custom programmable virtual midnight and DALI standard HM4
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Esempio *Example* Beispiel

06KS2	B2	0	0	30	C	HM4
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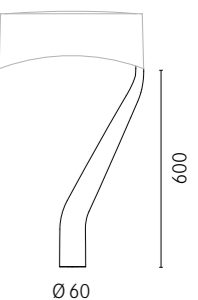
Accessori *Accessories* Zubehör

06KS901C0 - Sablé100

Chela Testa Palo Ø60mm (codolo H Ø90mm)

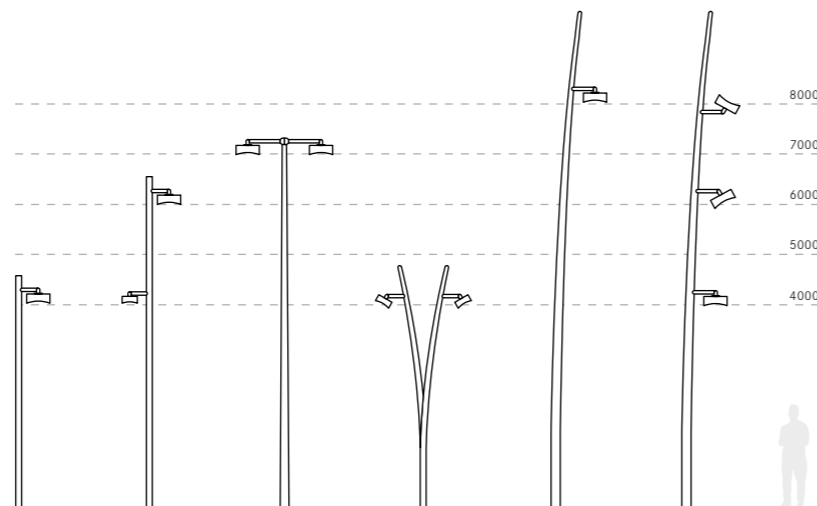
Arm for post top Ø60mm (fastening part H Ø90mm)

Mastkopf Befestigungssystem Ø60mm (schaft H Ø90mm)

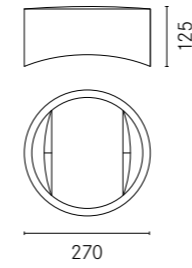


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kosmos brackets and poles small



Max weight: 3.5kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

Kosmos S 06KS1	
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K	
3985lm 24W	3800lm 24W
B2	B2

mA		
700	525	350
0	5	3

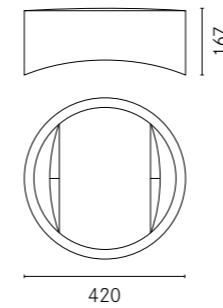
K	
4000	3000
0	9

Optics			
ST-01	ME-01	LA-01	LT-06
30	32	31	37

Colors	
Sablé100	
C	

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	

Kosmos brackets and poles medium



Max weight: 7.5kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos M 06KS2		
Led (source flux) Ref. @700mA @4000K		
4070lm 24W	8045lm 48W	11915lm 72W
B2	C4	D6

Led (source flux) Ref. @700mA @3000K		
3885lm 24W	7670lm 48W	11360lm 72W
B2	C4	D6

mA		
700	525	350
0	5	3

K			
4000	3000	2200*	*Only 48W and 72W Optics ME-01 / LA-01 / LT-6
0	9	1	

Optics							
ST-01	ME-01	LA-01	RS-01	LT-06	AP-DX*	AP-SX*	MB-01**
30	32	31	35	37	36	34	40

Colors		*Only 8045lm and 11915lm 4000K	
Sablé100		**Only 8045lm and 11915lm 4000K and 3000K	
C			

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	

Esempio Example Beispiel

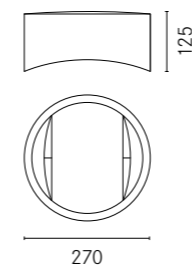
06KS2	B2	0	0	30	C	HM4
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Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kosmos suspension arm small



Max weight: 3.5kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

Kosmos S 06KS1	
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K	
3985lm 24W	3800lm 24W
B2	B2

mA		
700	525	350
0	5	3

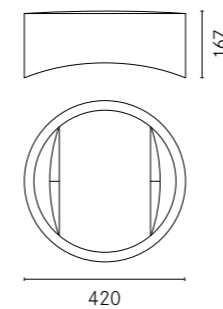
K	
4000	3000
0	9

Optics			
ST-01	ME-01	LA-01	LT-06
30	32	31	37

Colors	
Sablé100	
C	

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	

Kosmos suspension arm medium



Max weight: 7.5kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos M 06KS2		
Led (source flux) Ref. @700mA @4000K		
4070lm 24W	8045lm 48W	11915lm 72W
B2	C4	D6

Led (source flux) Ref. @700mA @3000K		
3885lm 24W	7670lm 48W	11360lm 72W
B2	C4	D6

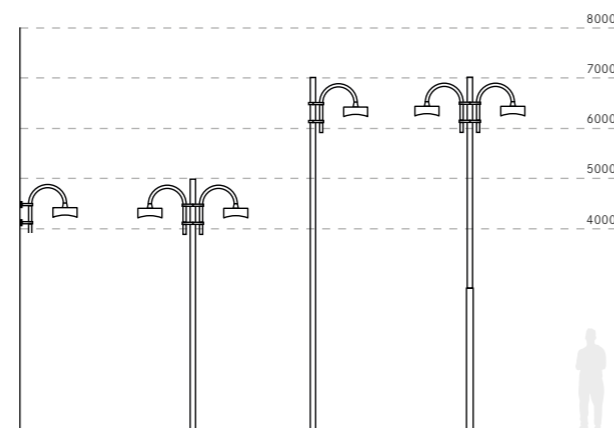
mA		
700	525	350
0	5	3

K			
4000	3000	2200*	*Only 48W and 72W Optics ME-01 / LA-01 / LT-6
0	9	1	

Optics							
ST-01	ME-01	LA-01	RS-01	LT-06	AP-DX*	AP-SX*	MB-01**
30	32	31	35	37	36	34	40

Colors		*Only 8045lm and 11915lm 4000K
Sablé100		**Only 8045lm and 11915lm 4000K and 3000K
C		

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	



Esempio *Example* Beispiel

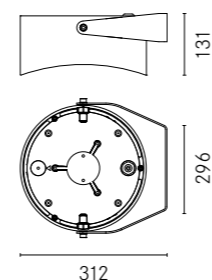
06KS2	B2	0	0	30	C	HM4
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Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kosmos Flood flood small



Max weight: 4.2kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

**Kosmos Flood S
06KS5**

Led (source flux):
 Ref. @700mA @4000K Ref. @700mA @3000K
 3985lm 24W 3800lm 24W

B2	B2
-----------	-----------

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

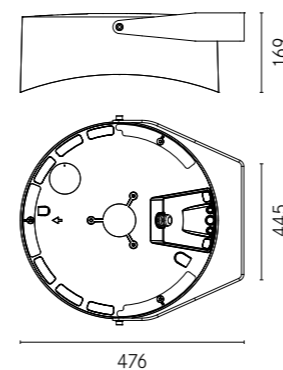
LT-06	LT-05	LR-20
37	38	42

Colors

Sablé100
C

Smart Lighting
 Custom programmable virtual midnight and DALI standard
HM4

Kosmos Flood flood medium



Max weight: 9.2kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

**Kosmos Flood M
06KS6**

Led (source flux) Ref. @700mA @4000K

4070lm 24W	8045lm 48W	11915lm 72W
B2	C4	D6

Led (source flux) Ref. @700mA @3000K

3885lm 24W	7670lm 48W	11360lm 72W
B2	C4	D6

mA

700	525	350
0	5	3

K

4000	3000	2200*
0	9	1

*Only 48W and 72W Optics LT-6

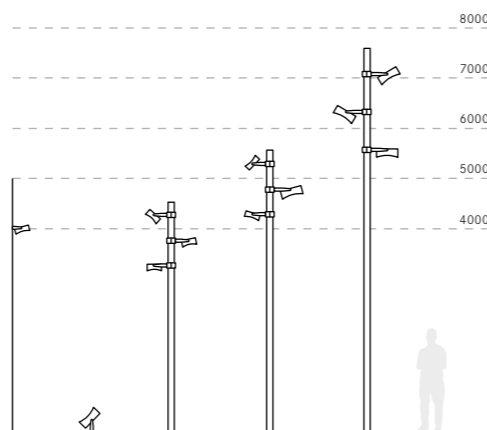
Optics

LT-06	LT-05	LR-20
37	38	42

Colors

Sablé100
C

Smart Lighting
 Custom programmable virtual midnight and DALI standard
HM4



Esempio *Example* Beispiel

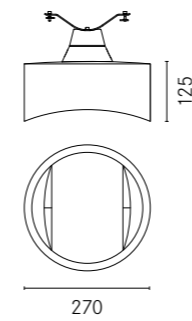
06KS6	B2	0	0	38	C	HM4
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Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kosmos string suspension small



Max weight: 3.5kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

Kosmos S 06KS1	
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K	
3985lm 24W B2	3800lm 24W B2

mA		
700 0	525 5	350 3

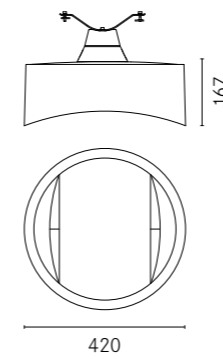
K	
4000 0	3000 9

Optics	
SO-01 39	LT-06 37

Colors	
Sablé100 C	

Smart Lighting	
Custom programmable virtual midnight and DALI standard HM4	

Kosmos string suspension medium



Max weight: 7.5kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos M 06KS4		
Led (source flux) Ref. @700mA @4000K		
4070lm 24W B2	8045lm 48W C4	11915lm 72W D6

Led (source flux) Ref. @700mA @3000K		
3885lm 24W B2	7670lm 48W C4	11360lm 72W D6

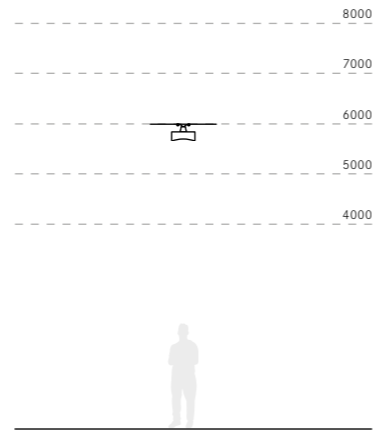
mA		
700 0	525 5	350 3

K			
4000 0	3000 9	2200* 1	*Only 48W and 72W

Optics	
SO-01 39	LT-06 37

Colors	
Sablé100 C	

Smart Lighting	
Custom programmable virtual midnight and DALI standard HM4	



Accessori Accessories Zubehör

06KS902C0 - Sablé100
 B80 Kit sospensione su fune tesata
 B80 Suspension kit for string
 B80 Aufhängungskit auf Drahtseil



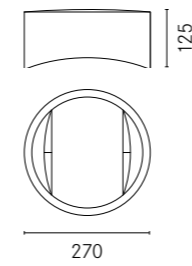
Esempio *Example* Beispiel

06KS4	B2	0	0	39	C	HM4
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220 240V	50 60Hz	CL II	IP66	IK09
-------------	------------	-------	------	------



Kosmos ceiling small



Max weight: 3.5kg
 Max exposed surface: 0.06m²
 Lateral exposed surface: 0.03m²

Kosmos S 06KS1	
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K	
3985lm 24W	3800lm 24W
B2	B2

mA		
700	525	350
0	5	3

K	
4000	3000
0	9

Optics

RS-01
35

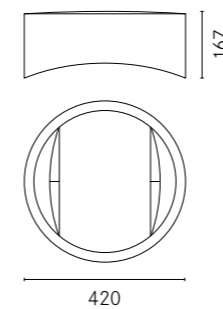
Colors

Sablé100
C

Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

Kosmos ceiling medium



Max weight: 7.5kg
 Max exposed surface: 0.14m²
 Lateral exposed surface: 0.063m²

Kosmos M 06KS2		
Led (source flux) Ref. @700mA @4000K		
4070lm 24W	8045lm 48W	11915lm 72W
B2	C4	D6

Led (source flux) Ref. @700mA @3000K		
3885lm 24W	7670lm 48W	11360lm 72W
B2	C4	D6

mA		
700	525	350
0	5	3

K	
4000	3000
0	9

Optics

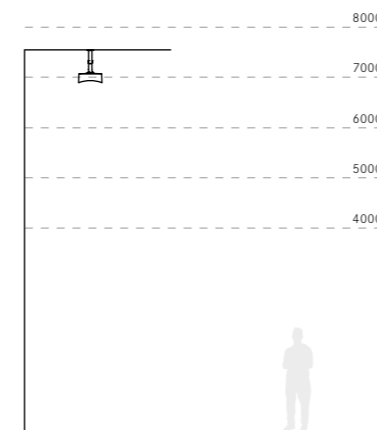
RS-01
35

Colors

Sablé100
C

Smart Lighting

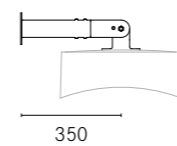
Custom programmable virtual midnight and DALI standard
HM4



Accessori Accessories Zubehör

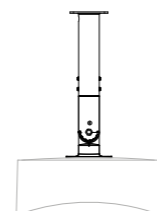
06KS905C0 - Sablé100

- B85-P Braccio parete L 350mm
- B85-P Braccio parete L 350mm
- B85-P Arm for wall-mounting L 350mm



06KS905C0 - Sablé100

- Attacco plafone
- Ceiling mount
- Deckenhalterung



Esempio Example Beispiel

06KS2	B2	0	0	35	C	HM4
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Accessori Accessories Zubehör Kosmos small

06ND901Y0

Diffusore policarbonato trasparente

Transparent polycarbonate diffuser

Transparenter Polycarbonat-Diffusor



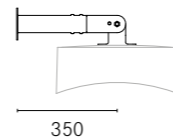
Accessori Accessories Zubehör Kosmos small/medium

06KS905C0 - Sablé 100

B85-P Braccio parete L 350mm

B85-P Arm for wall-mounting L 350mm

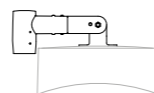
B85-P Arm für die Installation an der Wand L 350mm

**06KS906C0 - Sablé 100**

B86 Giunto testa palo Ø60mm

B86 Joint post top Ø60mm

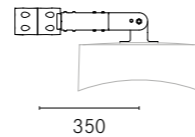
B86 Druckguss Mastverbindungstück Ø60mm Mast

**06KS912C0 - Sablé 100**

B92 Braccio singolo L 350mm palo Ø102mm

B92 Single arm L 350mm pole Ø102mm

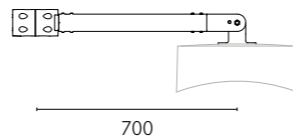
B92 Einarmig L 350mm Mast Ø102mm

**06KS913C0 - Sablé 100**

B93 Braccio singolo L 700mm palo Ø102mm

B93 Single arm L 700mm pole Ø102mm

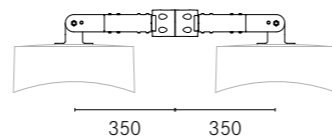
B93 Einarmig L 700mm Mast Ø102mm

**06KS914C0 - Sablé 100**

B94 Braccio doppio L 350mm palo Ø102mm

B94 Double arm L 350mm pole Ø102mm

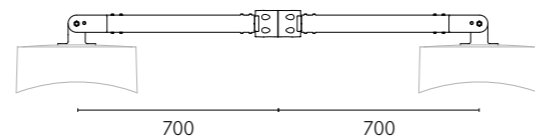
B94 Doppelarm L 350mm Mast Ø102mm

**06KS915C0 - Sablé 100**

B95 Braccio doppio L 700mm palo Ø102mm

B95 Double arm L 700mm pole Ø102mm

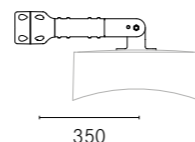
B95 Doppelarm L 700mm Mast Ø102mm

**06KS907C0 - Sablé 100**

B87 Braccio singolo L 350mm palo Ø60-76mm

B87 Single arm L 350mm pole Ø60-76mm

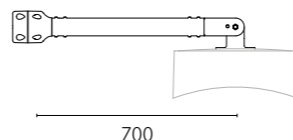
B87 Einarmig L 350mm Mast Ø60-76mm

**06KS908C0 - Sablé 100**

B88 Braccio singolo L 700mm palo Ø60-76mm

B88 Single arm L 700mm pole Ø60-76mm

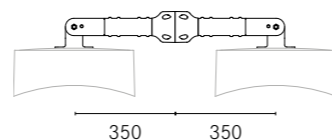
B88 Einarmig L 700mm Mast Ø60-76mm

**06KS910C0 - Sablé 100**

B90 Braccio doppio L 350mm palo Ø60-76mm

B90 Double arm L 350mm pole Ø60-76mm

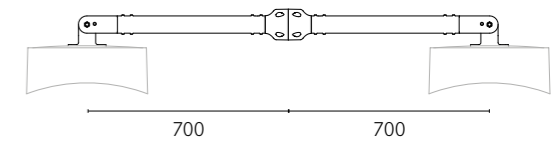
B90 Doppelarm L 350mm Mast Ø60-76mm

**06KS911C0 - Sablé 100**

B91 Braccio doppio L 700mm palo Ø60-76mm

B91 Double arm L 700mm pole Ø60-76mm

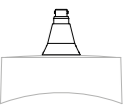
B91 Doppelarm L 700mm Mast Ø60-76mm

**06KS903C0 - Sablé 100**

B79 Kit fissaggio su bracci pastorali Ø48-60mm

B79 Fastening kit on Ø48-60mm pastoral arms

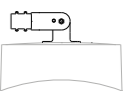
B79 Befestigungsset auf Ø48-60mm pastorale Arme

**06KS904C0 - Sablé 100**

B84 Snodo per bracci Ø60mm

B84 Joint for Ø60mm arms

B84 Gelenk für Ø60mm Arme

**06KS909C0 - Sablé 100**

B89 Connettore 4 vie

B89 4-way connector

B89 4-Wege-Stecker



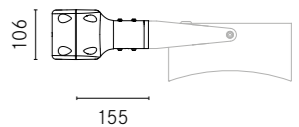
Accessori Accessories Zubehör Kosmos Flood Pole System

06KS916C0 - Sablé 100

B78 Kit attacco staffa-palo Ø60mm

B78 Kit for bracket-pole mounting Ø60mm

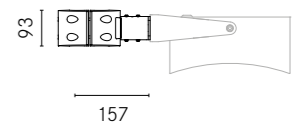
B78 Kit für Halterungsstange Ø60mm

**06KS917C0 - Sablé 100**

B97 Kit attacco staffa-palo Ø102mm

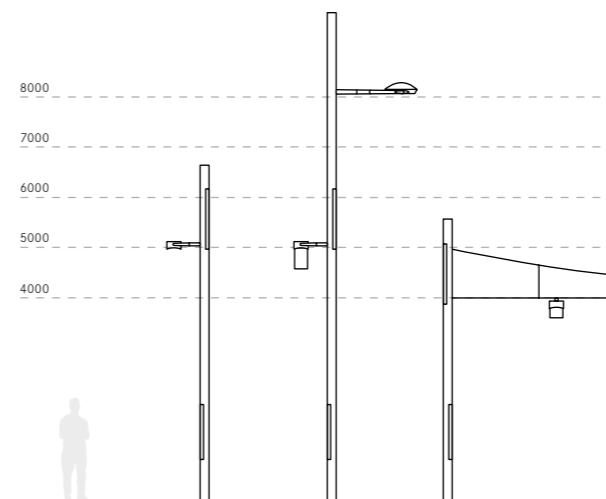
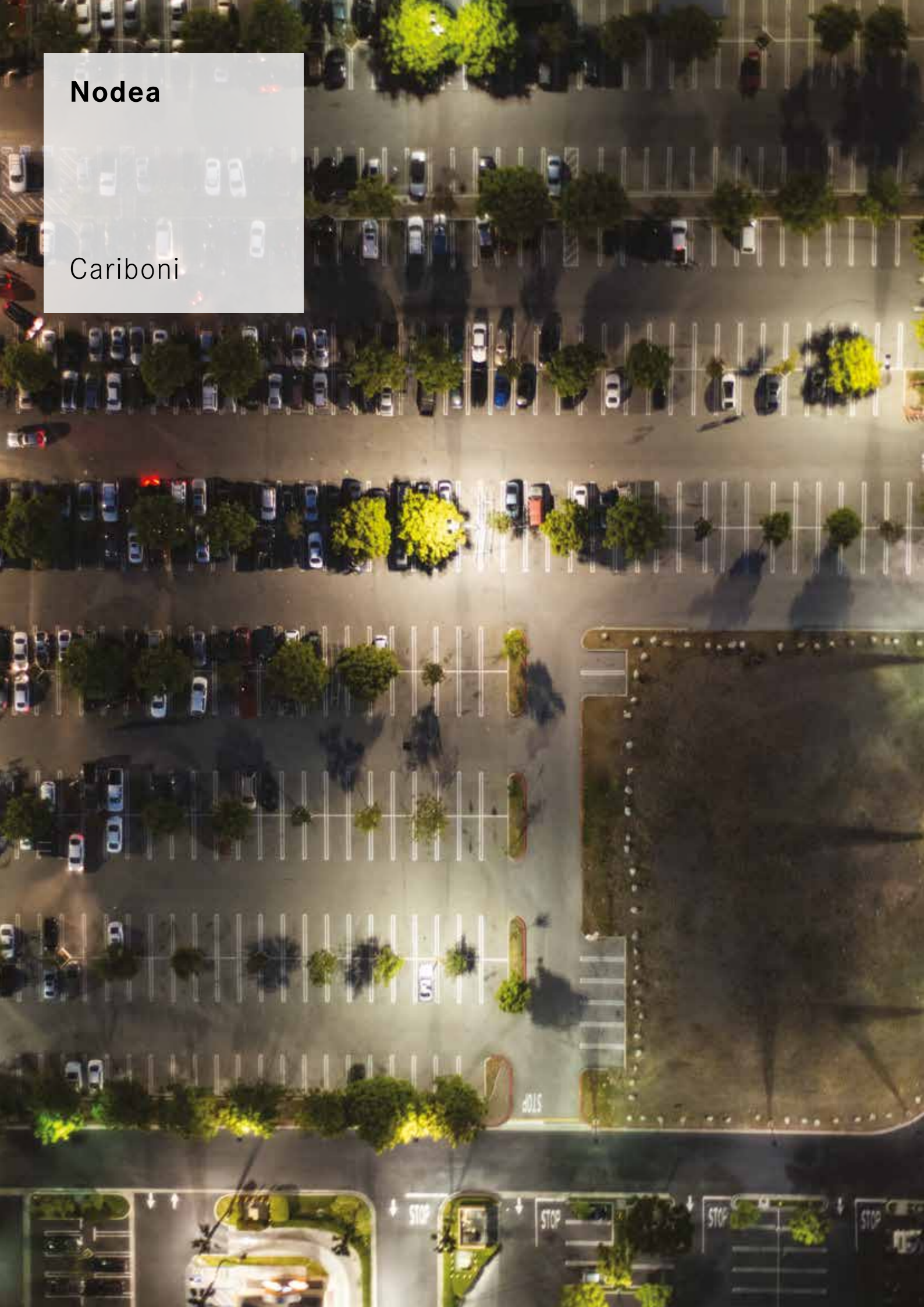
B97 Kit for bracket-pole mounting Ø102mm

B97 Kit für Halterungsstange Ø102mm



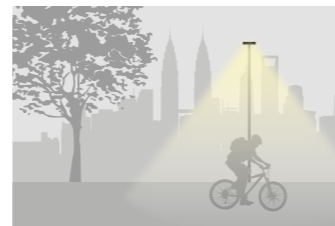
Nodea

Cariboni





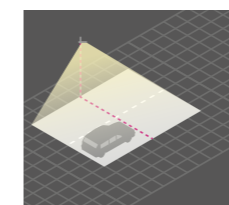
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



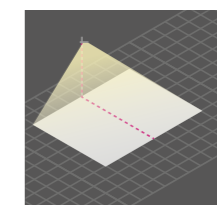
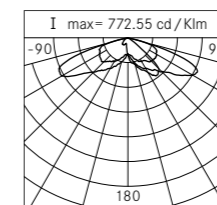
2230-4070lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)

> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

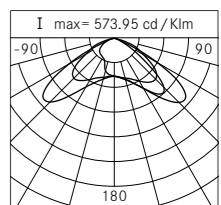
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



ME-01 (L/H = 1)



LT-05 (L/H = 1.5)



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo
Installation: pole
Installation: Mast

220 240V	50 60Hz	CL II	IP66	IK09
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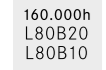
Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



160.000h
L80B20
L80B10
Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



Elevata resistenza agli urti (IK09)
Maximum impact resistance (IK09)
Maximum Stoßfestigkeitsgrad (IK09)



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV

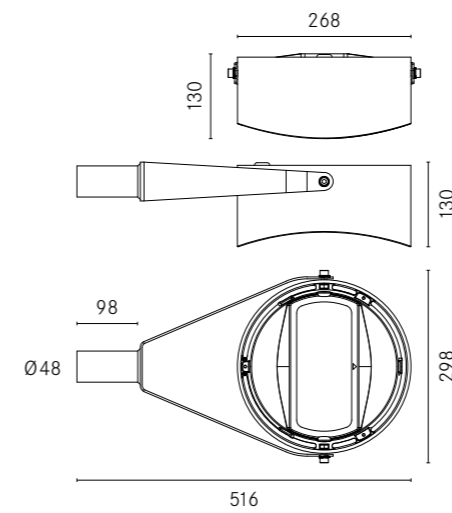


Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Precablaggio
Pre-wiring
Vorverkabelung

Nodea brackets and poles

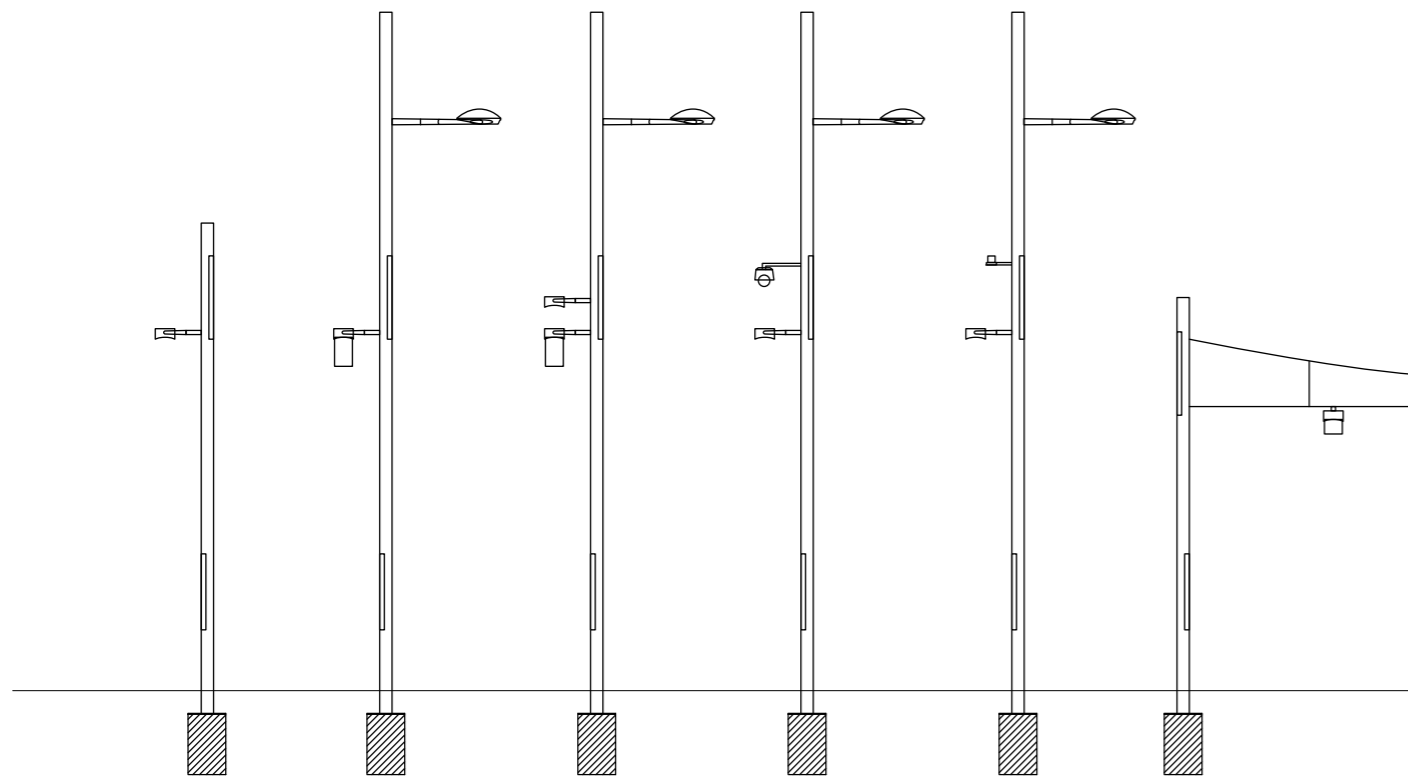


Max weight: 4.5kg
Max exposed surface: 0.06m²
Lateral exposed surface: 0.03m²

Nodea 06ND1		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
3985lm 24W	3800lm 24W	
B2	B2	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
ME-01	LT-05	
32	38	
Colors		
Sablé100		
C		
Smart Lighting		
Custom programmable virtual midnight		
HM4		

Esempio *Example* Beispiel

06ND1	B2	0	0	32	Z2	HM4
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Palo Ø 76mm
Braccio Ø 60mm

Pole Ø 76mm
Arm Ø 60mm

Mast Ø 76mm
Arme Ø 60mm

Accessori *Accessories* Zubehör

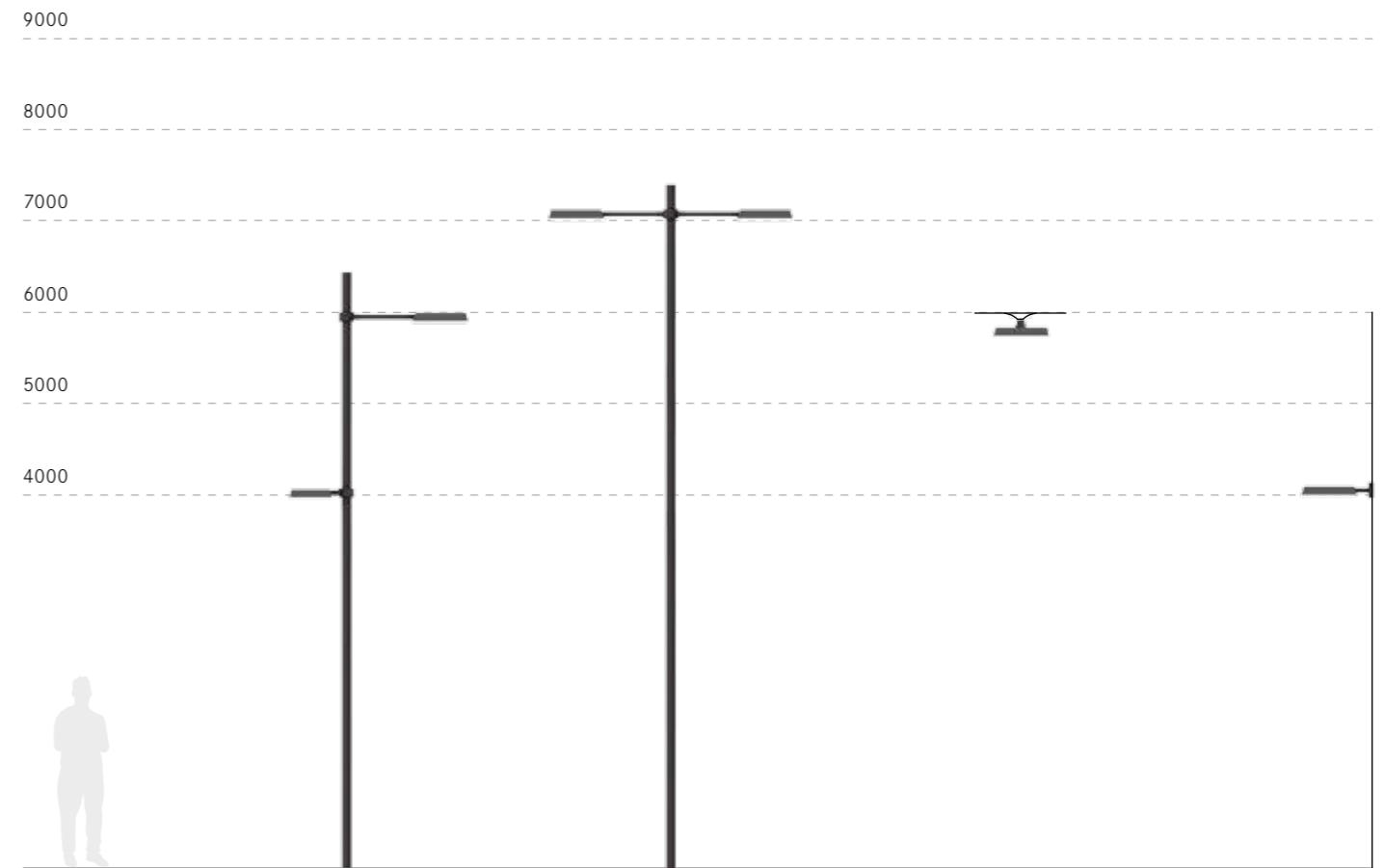
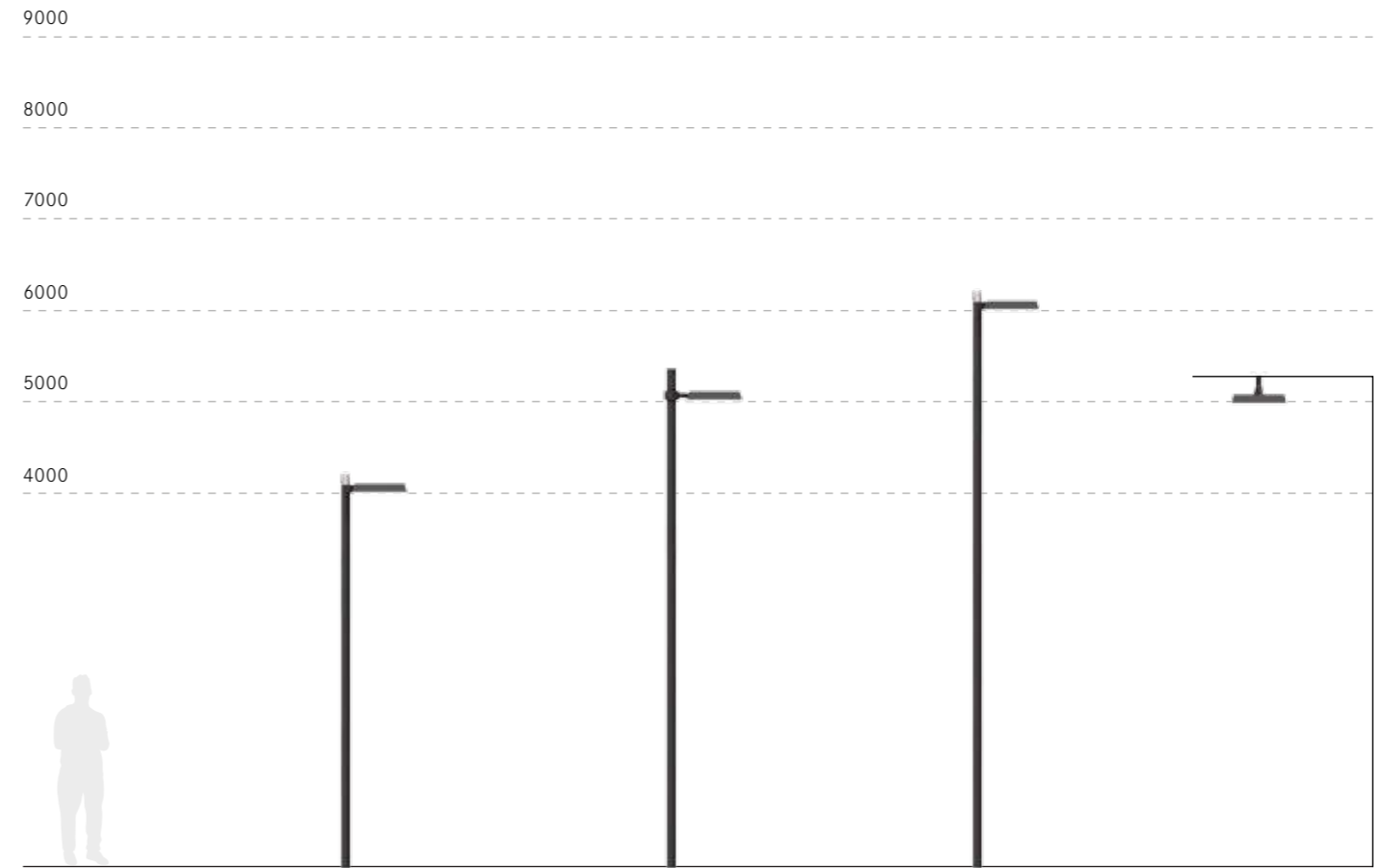
06ND901Y0

Diffusore policarbonato trasparente
Transparent polycarbonate diffuser
Transparenter Polycarbonat-Diffusor



Orao

Fivep





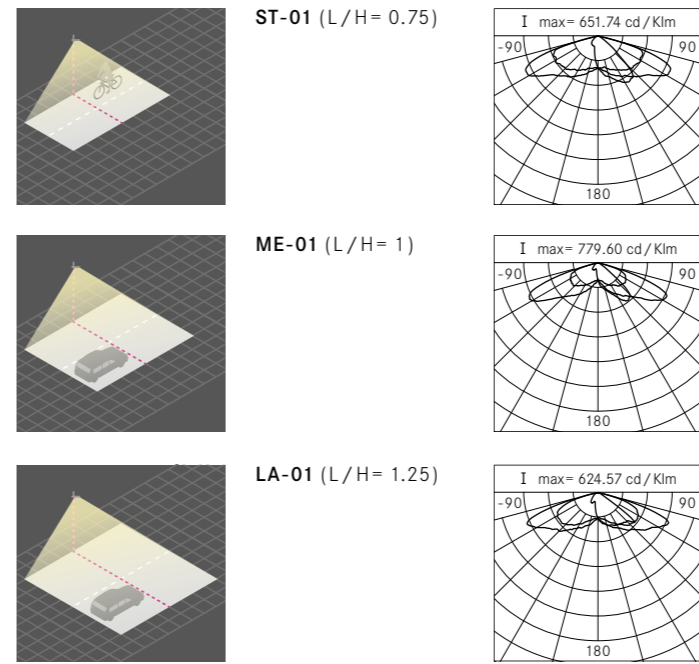
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 DALI Main voltage variation CLO on request Wireless on request PLC on request 1-10V on request Pilot line on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



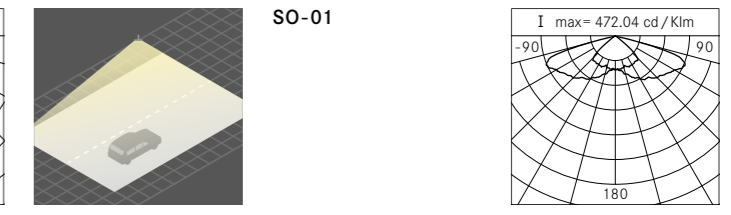
2240-15665 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

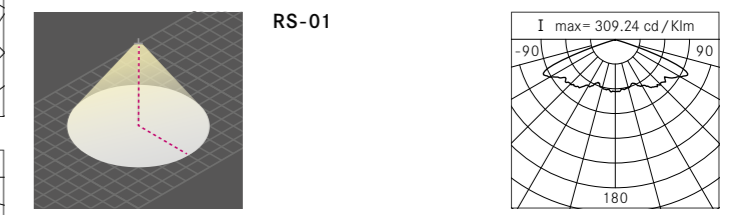
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



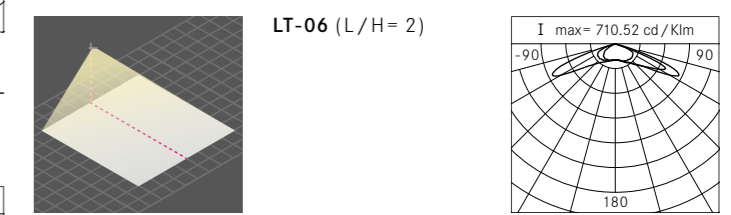
Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



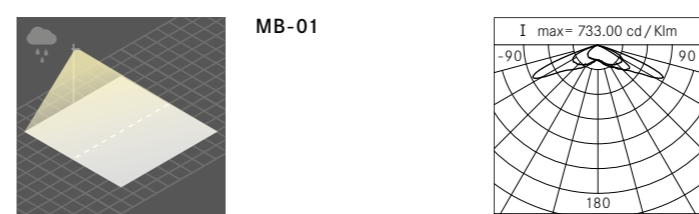
Ottiche rosimmetriche *Rotosymmetrical optics* Optik rotsymmetrisch



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



Ottiche per manto bagnato
Wet surface optics Optik asymmetrisch straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo, braccio, parete, tesata, soffitto
Installation: pole, arm, wall, string, ceiling
Installation: Mast, Arm, Wand, Drahtseil, Decke

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Schermatura sorgenti <i>Hidden Light Emitting Surfaces</i> Abschirmung der Lichtquellen		Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Ottica manto bagnato <i>Optics for wet surfaces</i> Optik für nasse Straßenbeläge
	Cut - Off <i>Cut - Off</i> Cut - Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		160.000h L80B20 L80B10 Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln		Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C
	Elevata resistenza agli urti (IK09) <i>Maximum impact resistance (IK09)</i> Maximum Stoßfestigkeitsgrad (IK09)		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Precablaggio <i>Pre-wiring</i> Vorverkabelung		Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten		



Comfort visivo

Gli innovativi sistemi ottici progettati per la linea Orao garantiscono alle persone benessere visivo, sicurezza e qualità dello spazio. Il design di Orao è stato pensato per illuminare lo spazio urbano con discrezione: le geometrie del prodotto permettono di ridurre la visibilità della sorgente per l'osservatore senza compromettere le performance fotometriche del sistema ottico. Orao è stato generato da studi ottici sull'angolo di schermatura, l'angolo tra il piano orizzontale e una retta che passa per il bordo dell'apparecchio e per il bordo della sorgente luminosa. Orao ha un angolo di schermatura di 10°. La soluzione 10° è stata scelta come il punto di equilibrio ottimale tra il miglioramento del comfort e la limitazione dell'impatto illuminotecnico. Il livello di arretramento della sorgente risponde invece ad esigenze meccaniche e termiche.

Visual comfort

The innovative optical systems designed for the Orao line guarantee visual comfort, safety and enhanced quality of space. Orao has been designed to discretely illuminate public spaces. Its shape allows for reduction of the visibility of the light emitting surfaces without compromising the photometric performance of the optical system. Orao is the result of optical studies on the screening angle, the angle between the horizontal plane and a straight line that passes through the edge of the fitting and the edge of the light surface. Orao has a screening angle of 10°. The 10° solution has been chosen as an ideal balance between improvement in comfort and limitation of the impact of the lighting. The level of the recessed position of the light surface is the result of mechanical and thermal requirements.

Sehkomfort

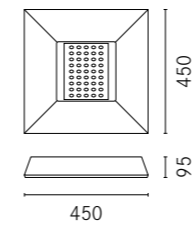
Die für die Orao-Produktreihe entworfenen innovativen Optiksysteeme garantieren den Personen Sehkomfort, Sicherheit und Qualität des Raumes. Das Orao-Design wurde konzipiert, um den städtischen Raum mit Diskretion zu beleuchten: Die Geometrien des Produktes ermöglichen es, die Sichtbarkeit der Lichtquelle für den Betrachter zu verringern, ohne die photometrischen Leistungen des Optiksysteems zu beeinträchtigen. Orao wurde durch optische Untersuchungen bezüglich des Abschirmungswinkels, des Winkels zwischen der horizontalen Ebene und einer geraden Linie, die durch den Rand des Gerätes und den Rand der Lichtquelle läuft, geschaffen. Orao hat einen Abschirmungswinkel von 10°. Die 10°-Lösung wurde als optimales Gleichgewicht zwischen der Komfortverbesserung und der Begrenzung der beleuchtungstechnischen Auswirkung gewählt. Das Maß der Zurücksetzung der Lichtquelle entspricht hingegen den mechanischen und thermischen Bedürfnissen.



220 240V	50 60Hz	CL II	IP66	IK09
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Orao brackets and poles small



Max weight: 7.5 kg
 Max exposed surface: 0.2m²
 Lateral exposed surface: 0.04m²

Orao S
01OR1

Led (source flux) Ref. @700mA @4000K

4025lm 24W B2	7915lm 48W C4
-------------------------	-------------------------

Led (source flux) Ref. @700mA @3000K

3835lm 24W B2	7550lm 48W C4
-------------------------	-------------------------

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9
------------------	------------------

Optics

ST-01 30	ME-01 32	LA-01 31	LT-06 37	MB-01 40
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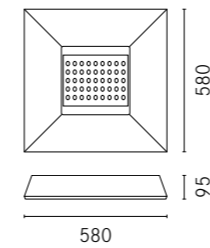
Colors

Sablé100 C

Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

Orao brackets and poles medium



Max weight: 12 kg
 Max exposed surface: 0.34m²
 Lateral exposed surface: 0.05m²

Orao M
01OR3

Led (source flux) Ref. @700mA @4000K

8070lm 48W C4	11960lm 72W D6	15665lm 95.5W E8
-------------------------	--------------------------	----------------------------

Led (source flux) Ref. @700mA @3000K

7695lm 48W C4	11405lm 72W D6	14935lm 95.5W E8
-------------------------	--------------------------	----------------------------

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9
------------------	------------------

Optics

ST-01 30	ME-01 32	LA-01 31	LT-06 37	MB-01 40
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Colors

Sablé100 C

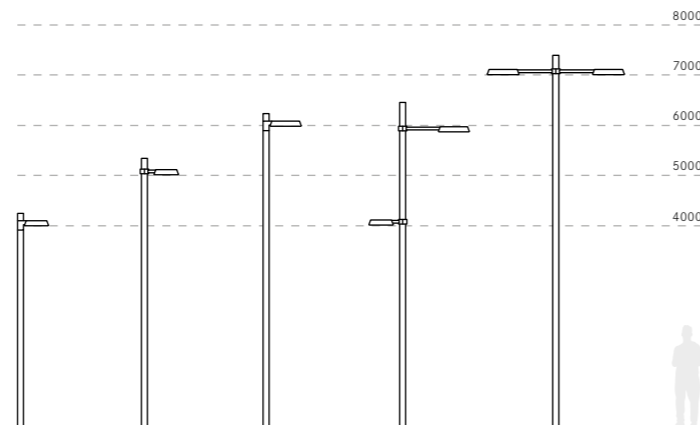
Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

Esempio Example Beispiel

01OR2	C4	0	0	37	C	HM4
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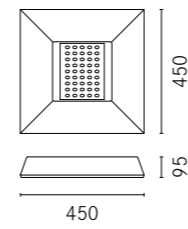
Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



220 50
240V 60Hz CL II IP66 IK09



Orao string suspension small



Max weight: 7.5kg
Max exposed surface: 0.2m²
Lateral exposed surface: 0.04m²

Orao S
01OR2

Led (source flux) Ref. @700mA @4000K

4025lm 24W B2	7915lm 48W C4
-------------------------	-------------------------

Led (source flux) Ref. @700mA @3000K

3835lm 24W B2	7550lm 48W C4
-------------------------	-------------------------

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9
------------------	------------------

Optics

SO-01 39

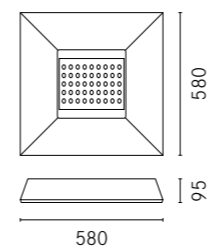
Colors

Sablé100 C

Smart Lighting

Custom programmable virtual midnight and DALI standard HM4
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Orao string suspension medium



Max weight: 12kg
Max exposed surface: 0.34m²
Lateral exposed surface: 0.05m²

Orao M
01OR4

Led (source flux) Ref. @700mA @4000K

8070lm 48W C4	11960lm 72W D6	15665lm 95.5W E8
-------------------------	--------------------------	----------------------------

Led (source flux) Ref. @700mA @3000K

7695lm 48W C4	11405lm 72W D6	14935lm 95.5W E8
-------------------------	--------------------------	----------------------------

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9
------------------	------------------

Optics

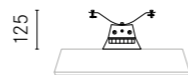
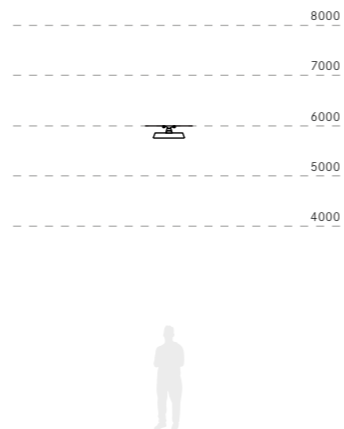
SO-01 39

Colors

Sablé100 C

Smart Lighting

Custom programmable virtual midnight and DALI standard HM4
--



Accessori Accessories Zubehör

01OR915C0 - Sablé100

B82 Kit sospensione su fune tesata

B82 Suspension kit for string

B82 Aufhängungskit auf Drahtseil

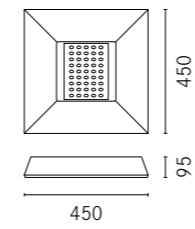
Esempio Example Beispiel

01OR2	C4	0	0	39	C	HM4
--------------	-----------	----------	----------	-----------	----------	------------

220 240V	50 60Hz	CL II	IP66	IK09
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Orao ceiling small



Max weight: 7.5kg
 Max exposed surface: 0.2m²
 Lateral exposed surface: 0.04m²

Orao S
01OR5

Led (source flux) Ref. @700mA @4000K

4025lm 24W	7915lm 48W
B2	C4

Led (source flux) Ref. @700mA @3000K

3835lm 24W	7550lm 48W
B2	C4

mA

700	525	350
0	5	3

K

4000	3000
0	9

Optics

RS-01
35

Colors

Sablé100
C

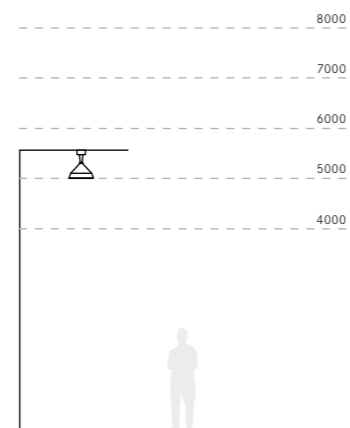
Smart Lighting

Custom programmable virtual midnight and DALI standard

HM4

Esempio *Example* Beispiel

01OR1	B2	0	0	35	C	HM4
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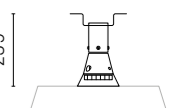
Accessori *Accessories* Zubehör

01OR910C0 - Sablé100

B105 Attacco sospensione portici

B105 Ceiling mount

B105 Deckenhalterung



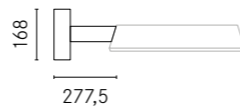
Accessori Accessories Zubehör Orao Brackets and poles small

01OR903C0 - Sablé 100

B98-P Braccio parete L 410mm

B98-P Arm for wall-mounting L 410mm

B98-P Arm für die Installation an der Wand L 410mm



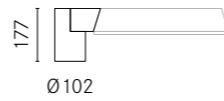
Accessori Accessories Zubehör Orao Brackets and poles

01OR901C0 - Sablé 100

B96 Attacco testa palo Ø60mm palo Ø102mm

B96 Post top kit Ø60mm for post Ø102mm

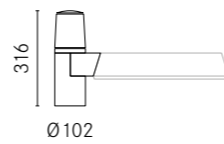
B96 Aufsatzset Ø60mm für Mast Ø102mm

**01OR902C0 - Sablé 100**

B164 Attacco testa palo Ø60mm palo Ø102mm con kit porta antenna

B164 Post top kit Ø60mm for post Ø102mm with antenna holder kit

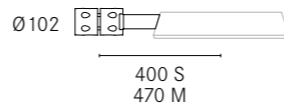
B164 Aufsatzset Ø60mm für Mast Ø102mm mit Antennenhalter-Kit

**01OR904C0 - Sablé 100**

B99 Braccio rettangolare L 400mm small/L 470mm medium palo Ø102mm

B99 Rectangular arm L 400mm small/L 470mm medium pole Ø102mm

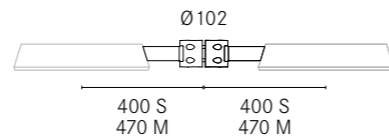
B99 Rechteckarm L 400mm small/L 470mm medium Mast Ø102mm

**01OR905C0 - Sablé 100**

B100 Braccio doppio rettangolare L 400mm small/L 470mm medium palo Ø102mm

B100 Rectangular double arm L 400mm small/L 470mm medium pole Ø102mm

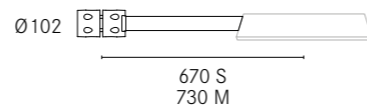
B100 Rechteckiger Doppelarm L 400mm small/L 470mm medium Mast Ø102mm

**01OR906C0 - Sablé 100**

B101 Braccio rettangolare L 670mm small/L 730mm medium palo Ø102mm

B101 Rectangular arm L 670mm small/L 730mm medium pole Ø102mm

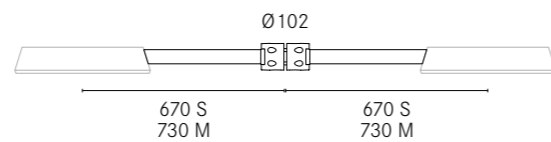
B101 Rechteckarm L 670mm small/L 730mm medium Mast Ø102mm

**01OR907C0 - Sablé 100**

B102 Braccio doppio rettangolare L 670mm small/L 730mm medium palo Ø102mm

B102 Rectangular double arm L 670mm small/L 730mm medium pole Ø102mm

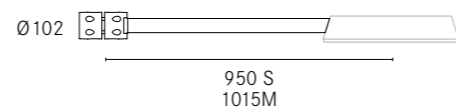
B102 Rechteckiger Doppelarm L 670mm small/L 730mm medium Mast Ø102mm

**01OR908C0 - Sablé 100**

B103 Braccio rettangolare L 950mm small/L 1015mm medium palo Ø102mm

B103 Rectangular arm L 950mm small/L 1015mm medium pole Ø102mm

B103 Rechteckarm L 950mm small/L 1015mm medium Mast Ø102mm

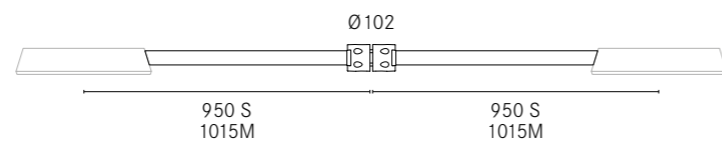
**01OR909C0 - Sablé 100**

B104 Braccio doppio rettangolare

L 950mm small/L 1015mm medium palo Ø102mm

*B104 Rectangular double arm**L 950mm small/L 1015mm medium pole Ø102mm*

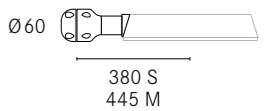
B104 Rechteckiger Doppelarm L 950mm small/L 1015mm medium Mast Ø102mm

**01OR911C0 - Sablé 100**

B106 Braccio tubolare L 380mm small/L 445mm medium palo Ø60-76mm

B106 Tubular arm L 380mm small/L 445mm medium pole Ø60-76mm

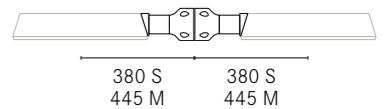
B106 Rohrarm L 380mm small/L 445mm medium Mast Ø60-76mm

**01OR912C0 - Sablé 100**

B107 Braccio tubolare doppio L 380mm small/L 445mm medium palo Ø60-76mm

B107 Tubular double arm L 380mm small/L 445mm medium pole Ø60-76mm

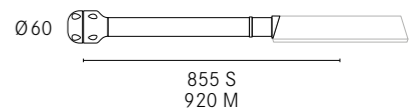
B107 Doppelrohrarm L 380mm small/L 445mm medium Mast Ø60-76mm

**01OR913C0 - Sablé 100**

B108 Braccio tubolare L 855mm small/L 920mm medium palo Ø60-76mm

B108 Tubular arm L 855mm small/L 920mm medium pole Ø60-76mm

B108 Rohrarm L 855mm small/L 920mm medium Mast Ø60-76mm

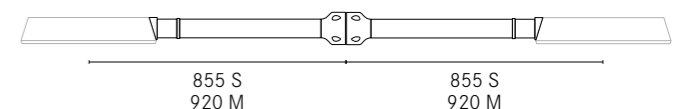
**01OR914C0 - Sablé 100**

B109 Braccio tubolare doppio L 855mm small

/L 920mm medium palo Ø60-76mm

B109 Tubular double arm L 855mm small/L 920mm medium pole Ø60-76mm

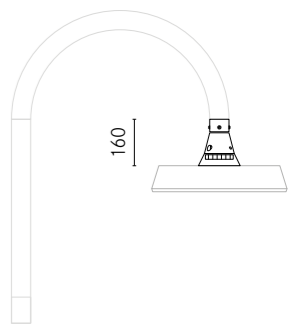
B109 Doppelrohrarm L 855mm small/L 920mm medium Mast Ø60-76mm

**01OR916C0 - Sablé 100**

B83 Attacco sospensione pastorale

B83 Kit for pastoral suspension

B83 Kit für pastorale Suspension



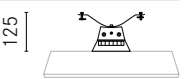
Accessori Accessories Zubehör Orao String suspension

01OR915C0 - Sablé 100

B82 Kit sospensione su fune tesata

B82 Suspension kit for string

B82 Aufhängungskit auf Drahtseil



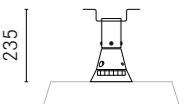
Accessori Accessories Zubehör Orao Ceiling

01OR910C0 - Sablé 100

B105 Attacco sospensione portici

B105 Ceiling mount

B105 Deckenhalterung



Accessori Accessories Zubehör Orao

06KS909C0 - Sablé 100

B89 Connettore 4 vie

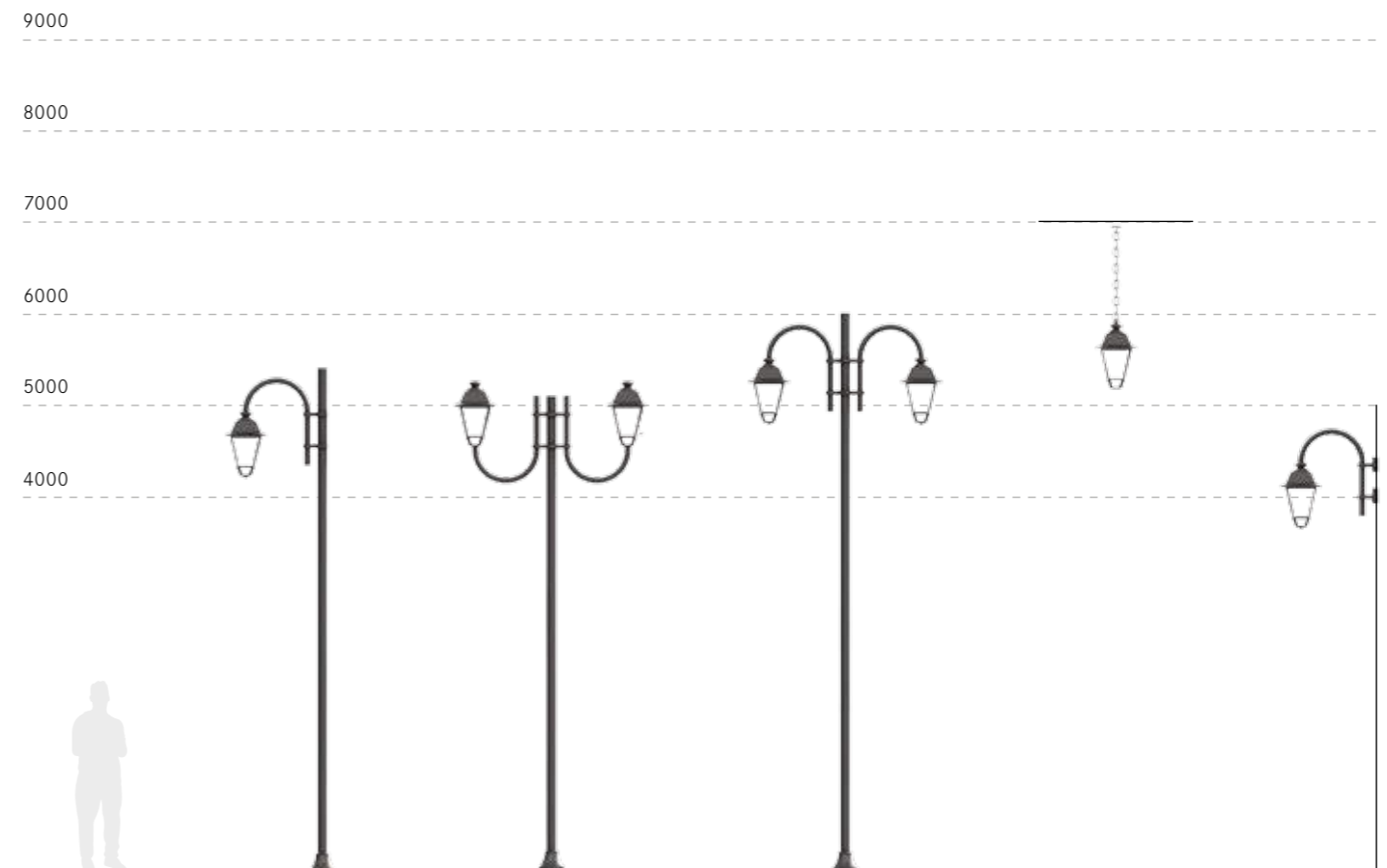
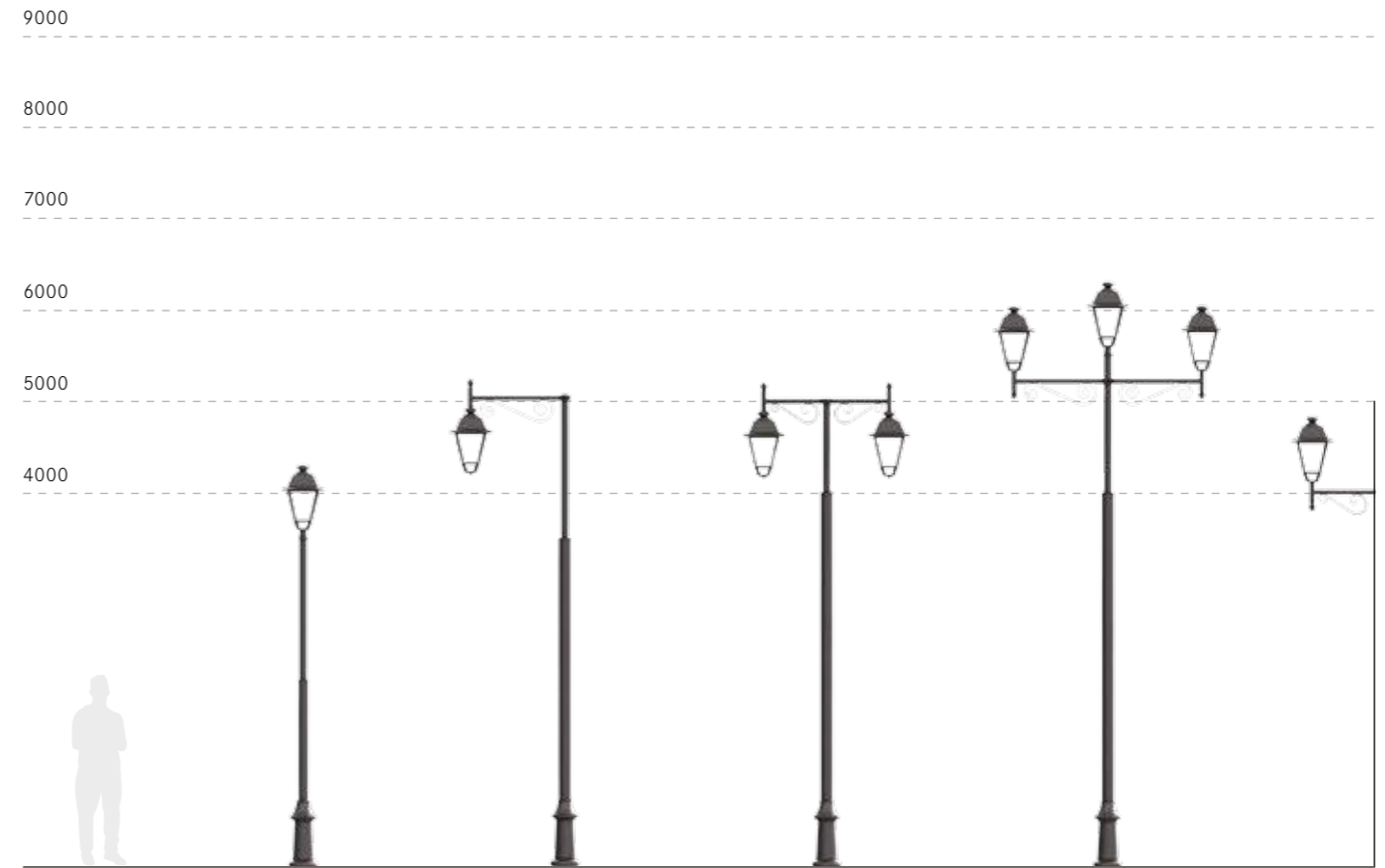
B89 4-way connector

B89 4-Wege-Stecker



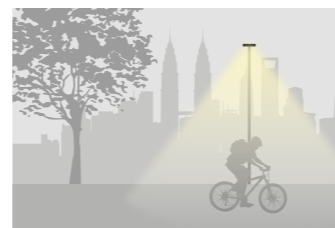
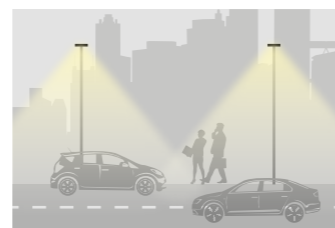
Agathos

Fivep





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO on request Wireless on request PLC on request 1-10V on request DALI on request Pilot line on request Main voltage variation on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

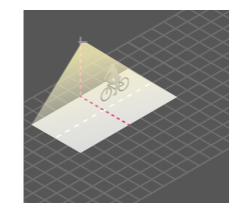


2135-11745 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

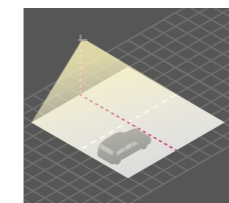
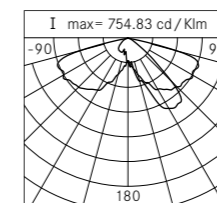
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali

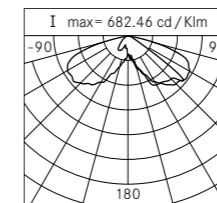
Street asymmetrical optics Optik asymmetrisch straßenleuchte



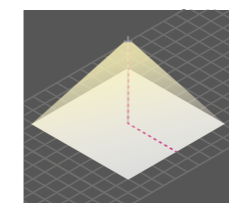
ST-01 (L/H = 0.75)



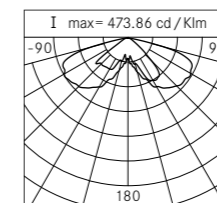
LA-01 (L/H = 1.25)



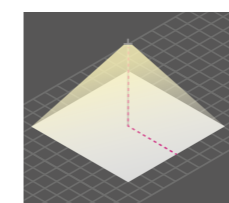
Ottiche Front & Back *Front & Back optics* Straßenoptik Front & Back Optik



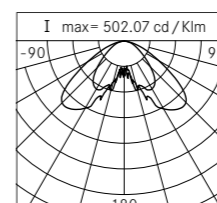
ST-01 (L/H = 0.75) +
LA-01 (L/H = 1.25)



Ottiche comfort *Comfort optics* Komfort Optik

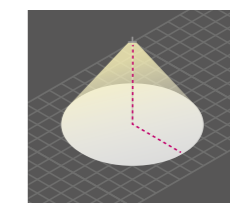


CO-01 (L/H = 1.25)

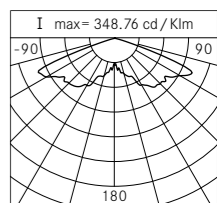


L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

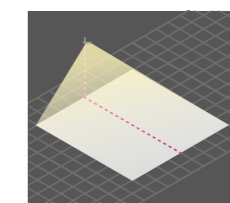
Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



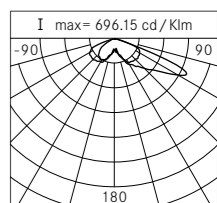
RS-01



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



LT-06 (L/H = 2)



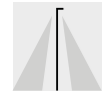
Installazione: palo, braccio, parete, soffitto
Installation: post, arm, wall, ceiling
Installation: Mast, Arm, Wand, Decke

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Agathos



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Ottica Front & Back
Front & Back optics
Optik Front & Back

160.000h
L80B20
L80B10

Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Cut-Off
Cut-Off
Cut-Off



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30° C +50° C
Ta -30° C +50° C
Ta -30° C +50° C



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit

2200K

Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K

lm/W

Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



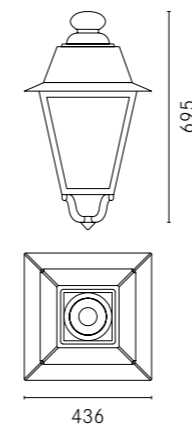
Trasporti ottimizzati
Shipping optimization
Transport optimiert



220 240V	50 60Hz	CL II	IP66	IK08
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Agathos UP brackets and poles



Max Weight: 8kg
 Max exposed surface: 0.194m²
 Lateral exposed surface: 0.09m²

Agathos 01AG1						
Led (source flux) Ref. @700mA @4000K						
4035lm 24W	7930lm 48W	11745lm 72W				
B2	C4	D6				
Led (source flux) Ref. @700mA @3000K						
3845lm 24W	7560lm 48W	11200lm 72W				
B2	C4	D6				
mA						
700	525	350				
0						
K						
4000	3000	2200*	*Only for 48W and 72W			
0	9	1	Optics LA-01, ST-01, LT-06, CO-01			
Optics						
ST-01	LA-01	LT-06	RS-01	ST-01 + LA-01*	CO-01**	*4035lm + 4035lm
30	31	37	35	76	79	**Only for 7930lm
Colors						
Sablé100						
C						
Smart Lighting						
Preset virtual midnight						
HM3						

Esempio Example Beispiel

01AG1	B2	0	0	35	C	HM3
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Accessori Accessories Zubehör

01AG901C0 - Sablé 100

Kit testa palo per pali Ø60mm
 Fastening kit on poles Ø60mm
 Feste Mastverbindung für Mast Ø60mm



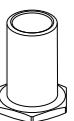
01AG902C0 - Sablé 100

Adattatore 3/4" gas per bracci UP & DOWN Ø60mm
 Fastening adapter 3/4" gas for arms UP & DOWN Ø60mm
 Adapter Stiftstrecker 3/4" gas für Ausleger UP & DOWN Ø60mm

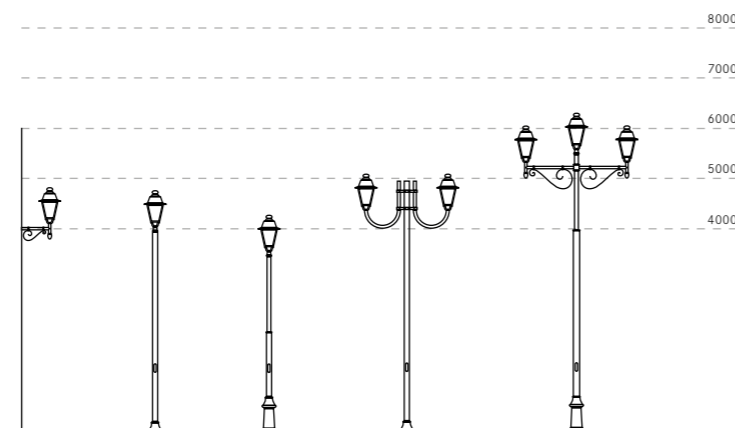


01AG900C0

Kit fissaggio per pali/bracci UP con attacco 3/4" gas femmina
 Fastening kit on poles/arms UP with female 3/4" gas
 Befestigungssystem für Mast/Ausleger UP Stiftstecker 3/4" gas



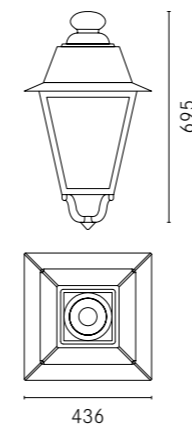
Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



220 240V	50 60Hz	CL II	IP66	IK08
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Agathos DOWN brackets and poles



Max Weight: 8kg
 Max exposed surface: 0.194m²
 Lateral exposed surface: 0.09m²

Agathos
01AG3

Led (source flux) Ref. @700mA @4000K

4035lm 24W B2	7930lm 48W C4	11745lm 72W D6
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Led (source flux) Ref. @700mA @3000K

3845lm 24W B2	7560lm 48W C4	11200lm 72W D6
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mA

700	525	350
0		

K

4000 0	3000 9	2200* 1	*Only for 48W and 72W
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Optics

ST-01 30	LA-01 31	LT-06 37
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Colors

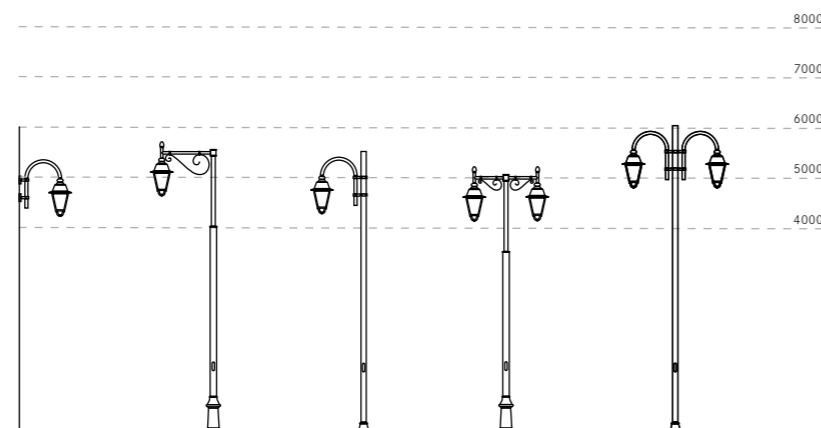
Sablé100 C

Smart Lighting

Preset virtual midnight HM3

Esempio Example Beispiel

01AG3	B2	0	0	30	C	HM3
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Accessori Accessories Zubehör

01AG902C0 - Sablé 100

Adattatore 3/4" gas per bracci UP & DOWN Ø60mm
 Fastening adapter 3/4" gas for arms UP & DOWN Ø60mm
 Adapter Stiftstrecker 3/4" gas für Ausleger UP & DOWN Ø60mm

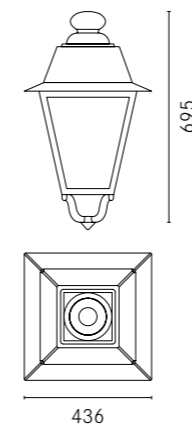
Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



220 240V	50 60Hz	CL II	IP66	IK08
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Agathos DOWN ceiling



Max Weight: 8kg
 Max exposed surface: 0.194m²
 Lateral exposed surface: 0.09m²

Agathos
01AG3

Led (source flux) Ref. @700mA @4000K

4035lm 24W	7930lm 48W
B2	C4

Led (source flux) Ref. @700mA @3000K

3845lm 24W	7560lm 48W
B2	C4

mA

700	525	350
0		

K

4000	3000	2200*	*Only for 48W and 72W
0	9	1	

Optics

RS-01
35

Colors

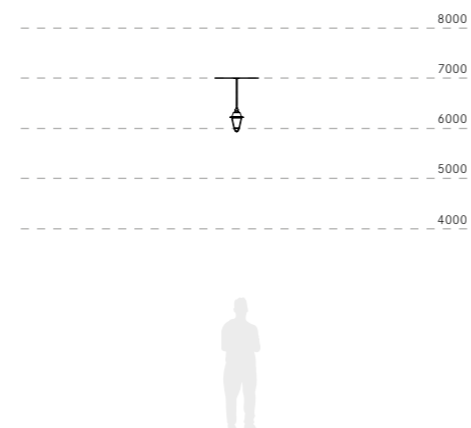
Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

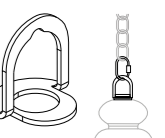
01AG3	B2	0	0	35	C	HM3
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Accessori *Accessories* Zubehör

01AG903C0

Gancio per sospensione su catena (non compresa)
Fastening System for catenary suspension system (not included)
 Befestigungssystem für Oberleitungaufhängen (nicht enthalten)



Accessori *Accessories* Zubehör Agathos UP

01AG924C0 - Sablé 100

B64-P Braccio per parete UP L 600mm
B64-P Wall bracket UP L 600mm
 B64-P Wandausleger UP L 600mm



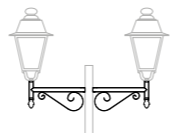
01AG914C0 - Sablé 100

B64 Braccio UP L 670mm per palo rastremato Ø127-76mm
B64 Arm UP L 670mm for tapered poles Ø127-76mm
 B64 Arm UP L 670mm für Verjüngten Masten Ø127-76mm



01AG918C0 - Sablé 100

B68 Braccio doppio UP 2xL 670mm per palo rastremato Ø127-76mm
B68 Arm UP 2xL 670mm for tapered poles Ø127-76mm
 B68 Arm UP 2xL 670mm für Verjüngten Masten Ø127-76mm



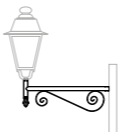
01AG925C0 - Sablé 100

B65-P Braccio per parete UP L 1000mm
B65-P Wall bracket UP L 1000mm
 B65-P Wandausleger UP L 1000mm



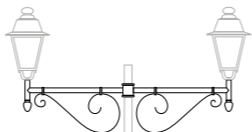
01AG915C0 - Sablé 100

B65 Braccio UP L 1000mm per palo rastremato Ø127-76mm
B65 Arm UP L 1000mm for tapered poles Ø127-76mm
 B65 Arm UP L 1000mm für Verjüngten Masten Ø127-76mm



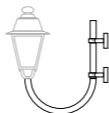
01AG919C0 - Sablé 100

B69 Braccio doppio UP 2xL 1000mm per palo rastremato Ø127-76mm
B69 Arm UP 2xL 1000mm for tapered poles Ø127-76mm
 B69 Arm UP 2xL 1000mm für Verjüngten Masten Ø127-76mm



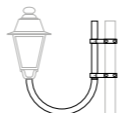
01AG922C0 - Sablé 100

B60-P Braccio per parete UP L 810mm
B60-P Wall bracket UP L 810mm
 B60-P Wandausleger UP L 810mm



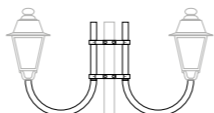
01AG910C0 - Sablé 100

B60 Braccio pastorale UP L 810mm per palo cilindrico Ø102mm
B60 Arm UP L 810mm for cylindrical poles Ø102mm
 B60 Arm UP L 810mm für Zylindrischer Masten Ø102mm



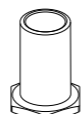
01AG911C0 - Sablé 100

B61 Braccio pastorale doppio UP 2xL 810mm per palo cilindrico Ø102mm
B61 Arm UP 2xL 810mm for cylindrical poles Ø102mm
 B61 Arm UP 2xL 810mm für Zylindrischer Masten Ø102mm



01AG900C0

Kit fissaggio per pali / bracci UP con attacco 3/4" gas femmina
Fastening kit on poles / arms UP with female 3/4" gas
 Befestigungssystem für Mast / Ausleger UP Stiftstecker 3/4" gas



Accessori *Accessories* Zubehör Agathos DOWN

01AG926C0 - Sablé 100

B66-P Braccio per parete DOWN L 600mm
B66-P Wall bracket DOWN L 600mm
 B66-P Wandausleger DOWN L 600mm



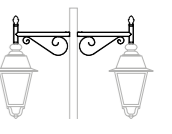
01AG916C0 - Sablé 100

B66 Braccio DOWN L 670mm per palo rastremato Ø127-76mm
B66 Arm DOWN L 670mm for tapered poles Ø127-76mm
 B66 Arm DOWN L 670mm für Verjüngten Masten Ø127-76mm



01AG920C0 - Sablé 100

B70 Braccio doppio DOWN 2xL 670mm per palo rastremato Ø127-76mm
B70 Arm DOWN 2xL 670mm for tapered poles Ø127-76mm
 B70 Arm DOWN 2xL 670mm für Verjüngten Masten Ø127-76mm



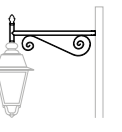
01AG927C0 - Sablé 100

B67-P Braccio per parete DOWN L 1000mm
B67-P Wall bracket DOWN L 1000mm
 B67-P Wandausleger DOWN L 1000mm



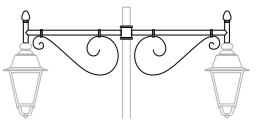
01AG917C0 - Sablé 100

B67 Braccio DOWN L 1000mm per palo rastremato Ø127-76mm
B67 Arm DOWN L 1000mm for tapered poles Ø127-76mm
 B67 Arm DOWN L 1000mm für Verjüngten Masten Ø127-76mm



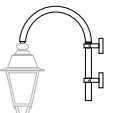
01AG921C0 - Sablé 100

B71 Braccio doppio DOWN 2xL 1000mm per palo rastremato Ø127-76mm
B71 Arm DOWN 2xL 1000mm for tapered poles Ø127-76mm
 B71 Arm DOWN 2xL 1000mm für Verjüngten Masten Ø127-76mm



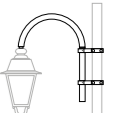
01AG923C0 - Sablé 100

B62-P Braccio per parete DOWN L 810mm
B62-P Wall bracket DOWN L 810mm
 B62-P Wandausleger DOWN L 810mm



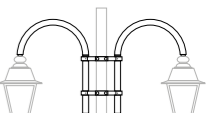
01AG912C0 - Sablé 100

B62 Braccio pastorale DOWN L 810mm per palo cilindrico Ø102mm
B62 Arm DOWN L 810mm for cylindrical poles Ø102mm
 B62 Arm DOWN L 810mm für Zylindrischer Masten Ø102mm



01AG913C0 - Sablé 100

B63 Braccio pastorale doppio DOWN 2xL 810mm per palo cilindrico Ø102mm
B63 Arm DOWN 2xL 810mm for cylindrical poles Ø102mm
 B63 Arm DOWN 2xL 810mm für Zylindrischer Masten Ø102mm



Agathos

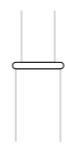
Accessori Accessories Zubehör Agathos

01AK970C0 - Sablé100

Collarino per pali Ø102-76 mm

Collar pole Ø102-76 mm

Kragen für Mast Ø102-76 mm

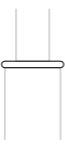


01AK971C0 - Sablé100

Collarino per pali Ø127-76 mm

Collar pole Ø127-76 mm

Kragen für Mast Ø127-76 mm

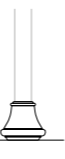


01AK972C0 - Sablé100

Basamento basso Ø102 mm

Down base Ø102 mm

Unten basis Ø102 mm



01AK973C0 - Sablé100

Basamento alto Ø102-76 mm

Upper base Ø102-76 mm

Obere basis Ø102-76 mm



01AK974C0 - Sablé100

Basamento alto Ø127-76 mm

Upper base Ø127-76 mm

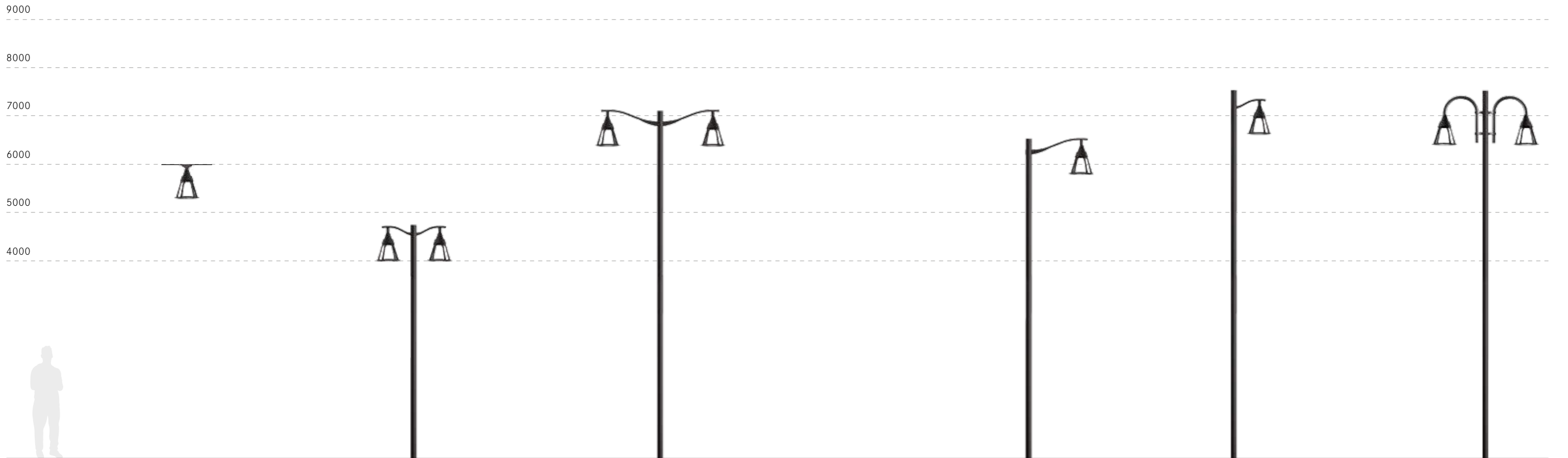
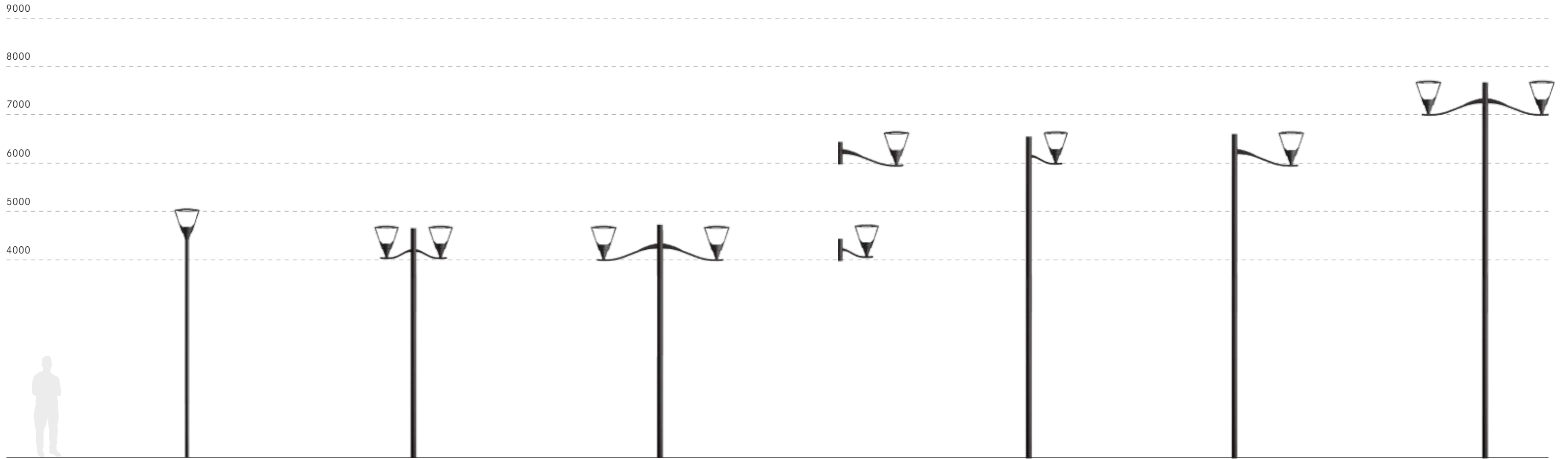
Obere basis Ø127-76 mm



Kalos

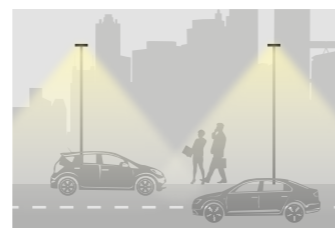
Fivep







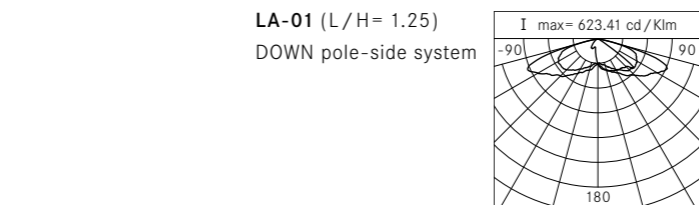
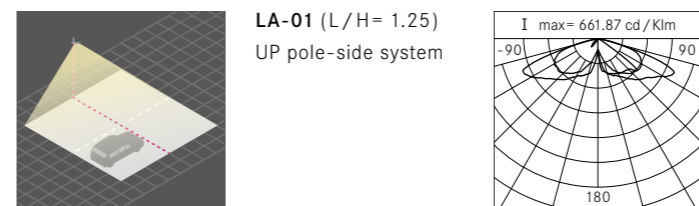
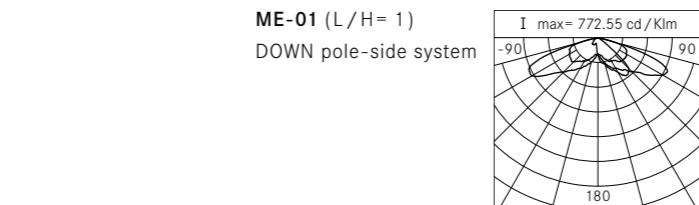
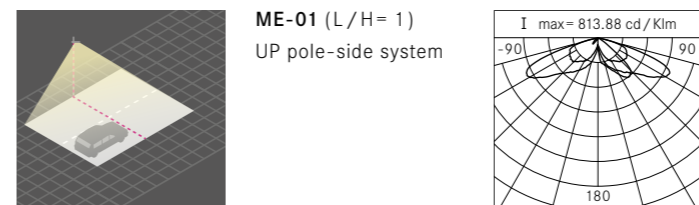
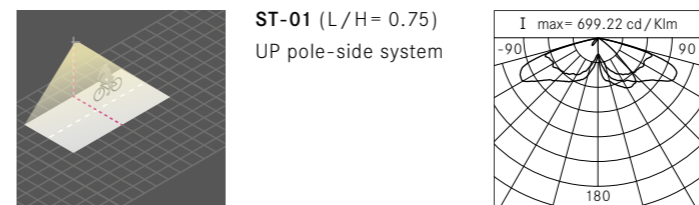
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
Wireless on request PLC on request DALI on request Motion detectors / brightness on request	



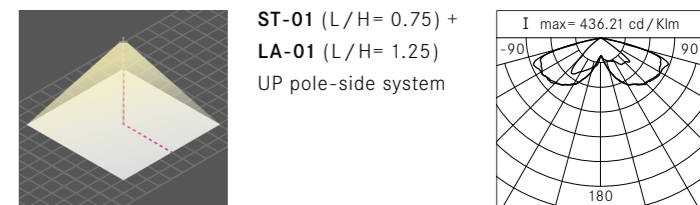
2120- 15435lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

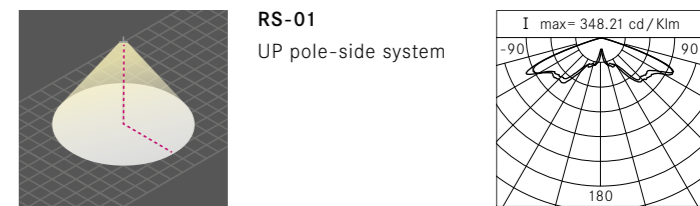
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



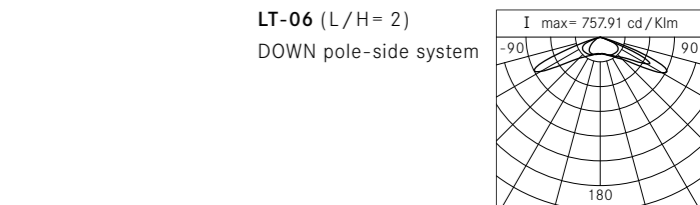
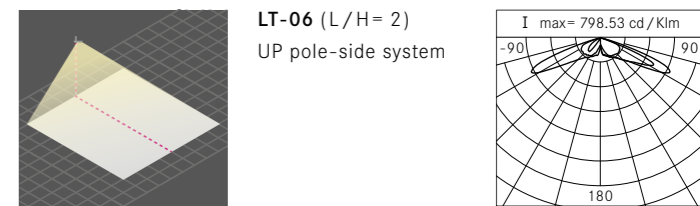
Ottiche Front & Back *Front & Back optics* Straßenoptik Front & Back Optik



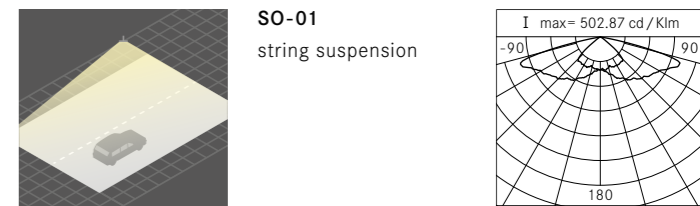
Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch




Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte





L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe


Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308


Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310


 Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"

 CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage

 Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz


 Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C


 Dimensioni compatte
Dimensions compact
Kompakten Abmessungen


 Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit


 Cut-Off
Cut-Off
Cut-Off


 Ottica Front& Back
Front&Back optics
Optik Front&Back


 Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln


 Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV


 Trasporti ottimizzati
Shipping optimization
Transport optimiert


 Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung

 2200K
Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K

 Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung

 Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische

 CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)

 Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Installazione UP&DOWN

Il sistema di fissaggio Kalos può essere installato in configurazione UP (testa palo o bracci in configurazione portata) o DOWN (sospensione su bracci o su fune tesata).

La versione UP è disponibile sia con due che con quattro bracci, quella DOWN è standard con quattro bracci. La versione UP quattro bracci può assumere una forma più classicheggiante se corredata del cappello dedicato.

UP&DOWN installation

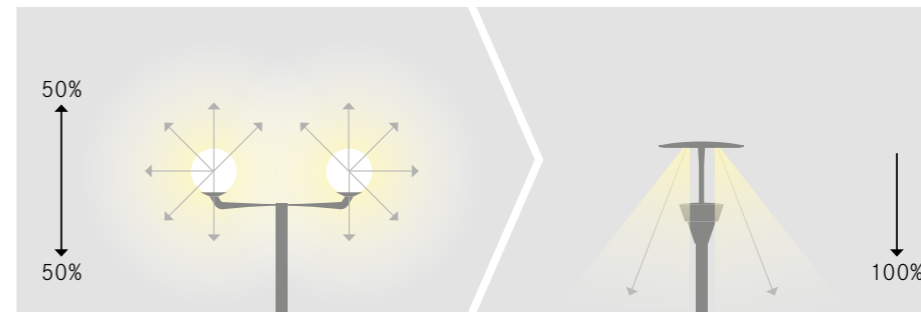
The Kalos fastening system can be installed in the UP position (post top or arm in supported position) or DOWN (suspended from arms or wire).

The UP version is available with two or four arms, while the DOWN version has four arms as standard. The four-arm UP version can assume a more classic form with the fitting of the special cover.

UP&DOWN-Installation

Das Kalos-Befestigungssystem kann in UP-Konfiguration (Mastkopf oder Ausleger in tragender Konfiguration) oder in DOWN-Konfiguration (Aufhängung an Auslegern oder an einem gespannten Drahtseil) installiert werden.

Die UP-Version ist sowohl mit zwei als auch mit vier Auslegern erhältlich, während die DOWN-Version standardmäßig über vier Ausleger verfügt. Die UP-Version mit vier Auslegern kann eine klassischere Form annehmen, wenn sie mit einer spezifischen dekorativen Abdeckung ausgestattet ist.



Impatto ambientale ridotto

La sostituzione di vecchi punti luce a lampada con i prodotti della linea Kalos consente un elevato risparmio energetico e una riduzione dell'inquinamento luminoso. (Cut-Off)

Reduced environmental impact

The substitution of old light-bulb units with products from the Kalos line allows for elevated energy saving and a reduction of light pollution. (Cut-Off)

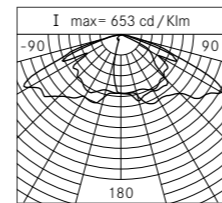
Energy Saving	75%
Light Pollution	0%
Life time	>50.000 h
On-off	immediately
Warranty	5 years

Reduzierte Umweltbelastung

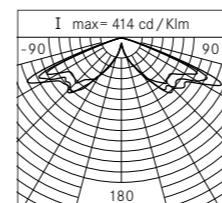
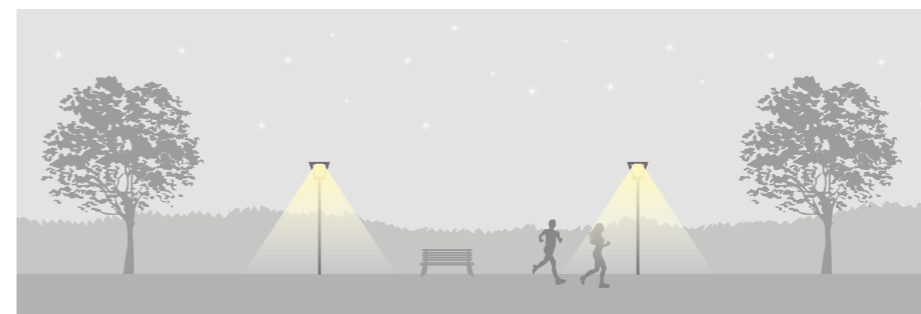
Die Auswechslung alter Glühbirnen-Lichtpunkte mit den Produkten der Kalos-Produktreihe ermöglicht eine hohe Energieeinsparung und eine Verringerung der Lichtverschmutzung. (Cut-Off)



H: Altezza palo Pole height Masthöhe
H1: Altezza fonte luce Height of the lighting source Lichtpunkthöhe
D: Interdistanza Interdistance Abstand
I/H: Rapporto interdistanza / altezza Interdistance / height ratio Verhältnis Abstand / Höhe
La: Larghezza strada Street width Straßenbreite
Emed: Illuminamento medio Average illumination Mittelbeleuchtung
Emin: Illuminamento minimo Minimum illumination Mindeste Beleuchtungsstärke
W: Potenza totale Totale absorbed Power Systemleistung
STR: Ottica stradale Street optic Straßenoptik
ROT: Ottica rotosimmetrica Rotosymmetrical optics Rotosymmetrische Optik



	H	H1	D	I/H	La	Emed	Emin	W
UNI 11248 (p2)				10	3			
KALOS 12 525 LED STR ST-01	4	4.6	22.5	5.6	3	137	4.94	20
CERVIA 125W QE	4	4.6	22.5	5.6	3	8	3	138
Energy saving	10LED 20W		vs	QE 125W 138W		-83%		

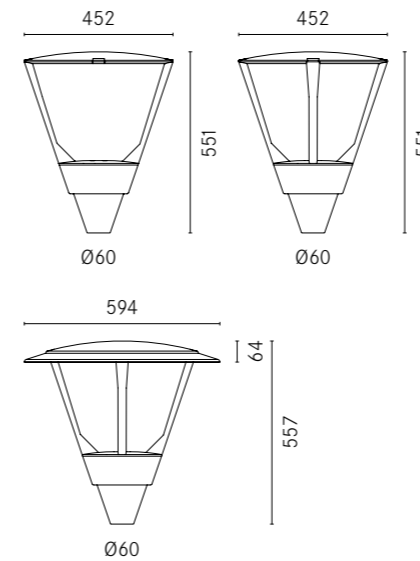


	H	H1	E Medio	U0	W	
80W QE	4	4.6	6	0.28	88	
125W QE	4	4.6	10	0.28	138	
100W SE	4	4.6	17	0.28	115	
KALOS 12 350 LED ROT	4	4.6	7,5	0.34	14.5	
KALOS 12 700 LED ROT	4	4.6	11	0.34	28	
Energy saving	12LED 14.5W		vs	QE 88W 88W		-83%
Energy saving	12LED 28W		vs	QE 125W 138W		-66%

220 240V	50 60Hz	CL II	IP66	IK09
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Kalos UP brackets and poles

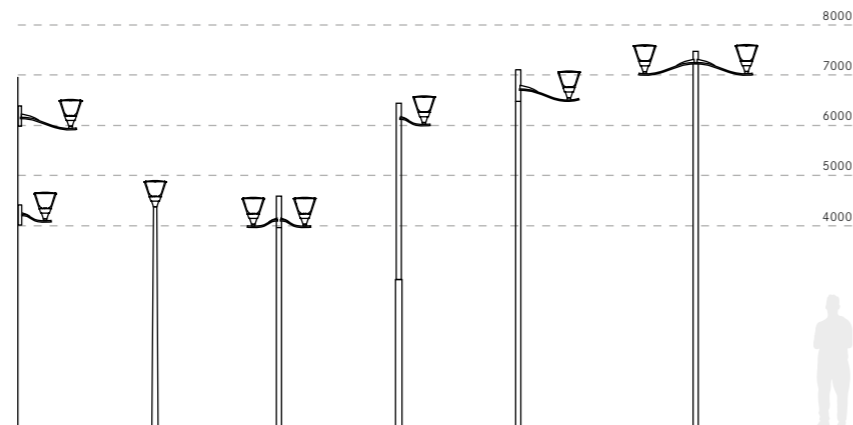


Max weight: 8 kg
 Max exposed surface: 0.16m²
 Lateral exposed surface: 0.068m²

Kalos UP 2 arms 01KA4		Kalos UP 4 arms 01KA5			
Led (source flux) Ref. @700mA @4000K					
3965lm 24W B2	7845lm 48W C4	11660lm 72W D6			
Led (source flux) Ref. @700mA @3000K					
3780lm 24W B2	7480lm 48W C4	11120lm 72W D6			
mA					
700	525	350	0		
K					
4000 0	3000 9	2200* 1	*Only 48W and 72W Optics LA-01 / ME-01 / LT-6		
Optics					
ST-01 30	ME-01 32	LA-01 31	RS-01 35	LT-06 37	*3965lm + 3965lm **7845lm + 7845lm
ST-01 + LA-01* 76		ST-01 + LA-01** 77			
Colors					
Sablé100 C					
Smart Lighting					
Preset virtual midnight HM3					

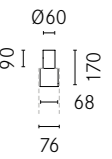
Esempio *Example* Beispiel

01KA4	B2	0	0	35	C	HM3
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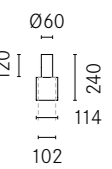


Accessori *Accessories* Zubehör

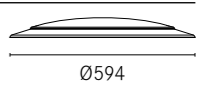
01AY904C0 - Sablé100
 Riduzione Ø60-68mm per pali Ø76mm
Reduction Ø60-68mm for poles Ø76mm
 Reduktion Ø60-68mm für Ø76mm Masten



01SC913C0 - Sablé100
 Riduzione Ø60-114mm per pali Ø102mm
Reduction Ø60-114mm for poles Ø102mm
 Reduktion Ø60-114mm für Ø102mm Masten



01KA901C0 - Sablé100
 Cappello (solo per versione 4 chele)
Decorative upper cover (only for version 4 arms)
 Dekorative Abdeckung (nur für version 4 Armen)

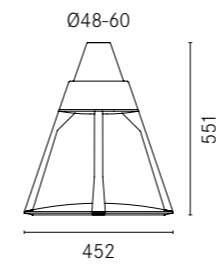


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kalos DOWN brackets and poles



Max weight: 8 kg
 Max exposed surface: 0.16m²
 Lateral exposed surface: 0.068m²

Kalos DOWN 4 arms
01KA6

Led (source flux) Ref. @700mA @4000K

3965lm 24W B2	7845lm 48W C4	11660lm 72W D6
-------------------------	-------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

3780lm 24W B2	7480lm 48W C4	11120lm 72W D6
-------------------------	-------------------------	--------------------------

mA

700	525	350
0		

K

4000	3000
0	9

Optics

ME-01 32	LA-01 31	LT-06 37
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Colors

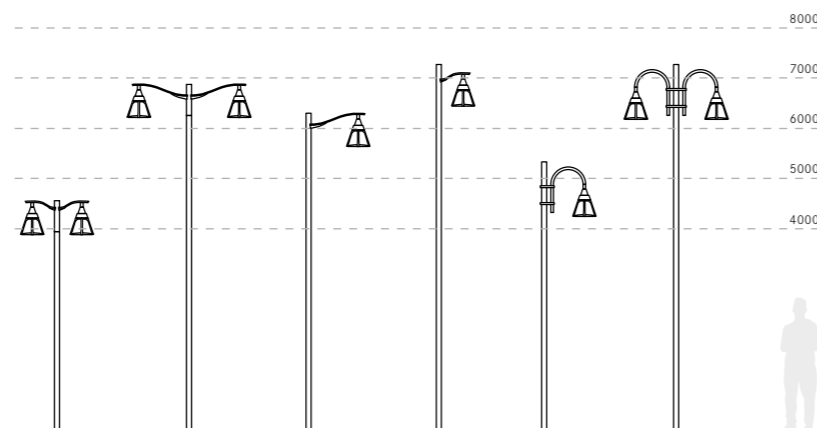
Sablé100 C

Smart Lighting

Preset virtual midnight HM3

Esempio Example Beispiel

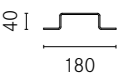
01KA6	B2	0	0	32	C	HM3
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Accessori Accessories Zubehör

01KA915C0 - Sablé100

B53 Kit sospensione plafone
 B53 Ceiling suspension kit
 B53 Deckenaufhängung



Versione con LED rosso, disponibili altre colorazioni su richiesta
 Version with red LED, on request other colors are available
 Version mit rotem LED, auf Anfrage sind andere Farben lieferbar

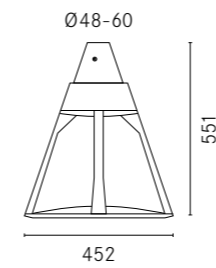


Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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Kalos DOWN string suspension



Max weight: 8 kg
 Max exposed surface: 0.16m²
 Lateral exposed surface: 0.068m²

Kalos DOWN 4 arms
01KA6

Led (source flux) Ref. @700mA @4000K

7845lm 48W C4	15435lm 95W E8
-------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

7480lm 48W C4	14720lm 95W E8
-------------------------	--------------------------

mA

700	525	350
0		

K

4000	3000
0	9

Optics

SO-01
39

Colors

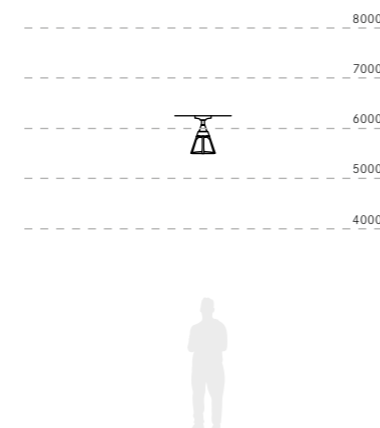
Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio Example Beispiel

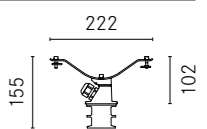
01KA6	C4	0	0	39	C	HM3
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Accessori Accessories Zubehör

01KA925C0 - Sablé100

Kit sospensione fune tesata Ø6-12mm
 Suspension kit for string Ø6-12mm
 Aufhängungskit auf Drahtseil Ø6-12mm



Versione con LED rosso, disponibili altre colorazioni su richiesta
 Version with red LED, on request other colors are available
 Version mit rotem LED, auf Anfrage sind andere Farben lieferbar



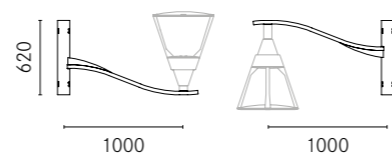
Accessori Accessories Zubehör

01KA902C0 - Sablé 100

B35 Braccio L 1000mm per palo Ø102mm con codolo TP Ø60mm H 120mm

B35 Arm L 1000mm for pole Ø102mm with adapter Ø60mm mast top H 120mm

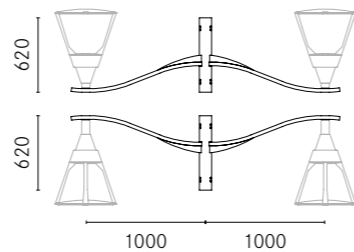
B35 Ausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA903C0 - Sablé 100**

B36 Braccio doppio L 1000mm per palo Ø102mm con codolo TP Ø60mm H 120mm

B36 Double arm L 1000mm for pole Ø102mm with adapter Ø60mm mast top H 120mm

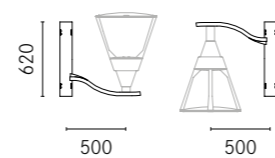
B36 Doppelausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA904C0 - Sablé 100**

B37 Braccio L 500mm per palo Ø102mm con codolo TP Ø60mm H 120mm

B37 Arm L 500mm for pole Ø102mm with adapter Ø60mm mast top H 120mm

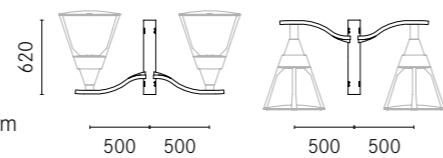
B37 Ausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA905C0 - Sablé 100**

B38 Braccio doppio L 500mm per palo Ø102mm con codolo TP Ø60mm H 120mm

B38 Double arm L 500mm for pole Ø102mm with adapter Ø60mm mast top H 120mm

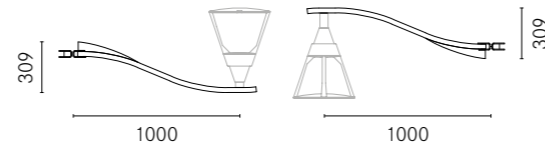
B38 Doppelausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA906C0 - Sablé 100**

B39 Braccio L 1000mm con anello per pali Ø102mm

B39 Arm L 1000mm with ring for pole Ø102mm

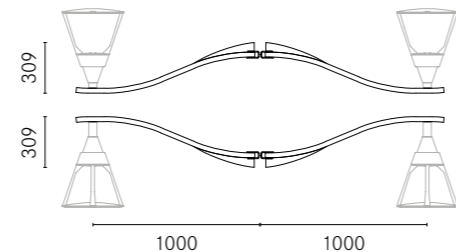
B39 Ausleger L 1000mm mit bring für Mast Ø102mm

**01KA907C0 - Sablé 100**

B44 Braccio doppio L 1000mm con anello per pali Ø102mm

B44 Double arm L 1000mm with ring for pole Ø102mm

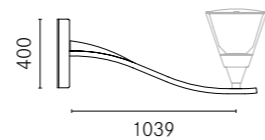
B44 Doppelausleger L 1000mm mit bring für Mast Ø102mm

**01KA910C0 - Sablé 100**

B39-P Braccio per parete L 1000mm

B39-P Wall bracket L 1000mm

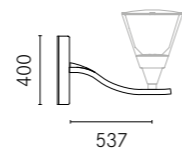
B39-P Wandausleger L 1000mm

**01KA911C0 - Sablé 100**

B45-P Braccio per parete L 500mm

B45-P Wall bracket L 500mm

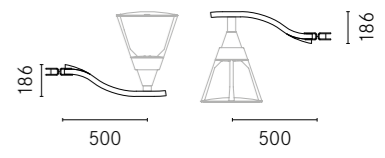
B45-P Wandausleger L 500mm

**01KA908C0 - Sablé 100**

B45 Braccio L 500mm con anello per pali Ø102mm

B45 Arm L 500mm with ring for pole Ø102mm

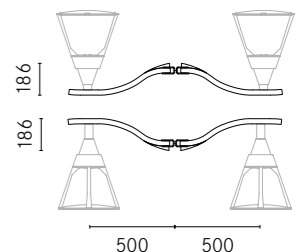
B45 Ausleger L 500mm mit bring für Mast Ø102mm

**01KA909C0 - Sablé 100**

B46 Braccio doppio L 500mm con anello per pali Ø102mm

B46 Double arm L 500mm with ring for pole Ø102mm

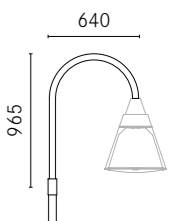
B46 Doppelausleger L 500mm mit bring für Mast Ø102mm

**01AK932C0 - Sablé 100**

B12 Braccio pastorale L 640mm Ø60mm per palo TP Ø60mm

B12 Pastoral arm L 640mm Ø60mm for pole post top Ø60mm

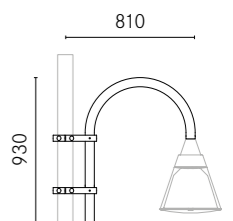
B12 Ausleger gebogen L 640mm Ø60mm für Mast Mastkopf Ø60mm

**01AK935C0 - Sablé 100**

B15 Braccio pastorale L 810mm Ø60mm per palo Ø102mm

B15 Pastoral arm L 810mm Ø60mm for pole Ø102mm

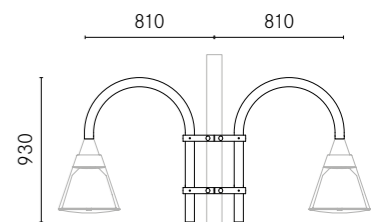
B15 Ausleger gebogen L 810mm Ø60mm für Mast Ø102mm

**01AK936C0 - Sablé 100**

B16 Braccio pastorale doppio L 810mm Ø60mm per palo Ø102mm

B16 Double pastoral arm L 810mm Ø60mm for pole Ø102mm

B16 Doppelausleger gebogen L 810mm Ø60mm für Mast Ø102mm



Circle

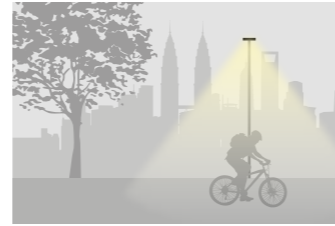
Fivep





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

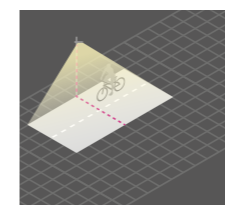
Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, arm, Wand



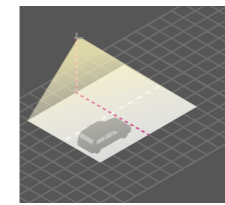
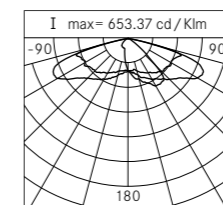
2130-11575 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25° C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25° C TM21 L80B10	

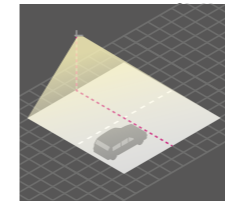
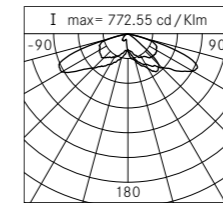
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



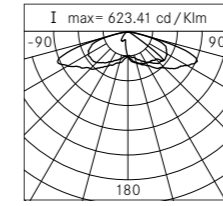
ST-01 (L/H = 0.75)



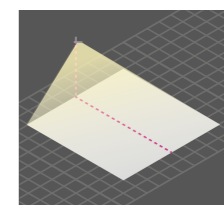
ME-01 (L/H = 1)



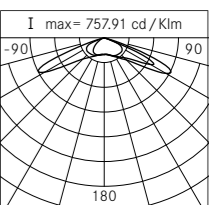
LA-01 (L/H = 1.25)



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



LT-06 (L/H = 2)



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Cut-Off
Cut-Off
Cut-Off



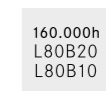
CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



160.000h
L80B20
L80B10
Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Ta -30° C +50° C
Ta -30° C +50° C
Ta -30° C +50° C



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



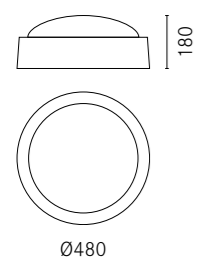
Separabilità delle componenti
Separable components
Trennbare Komponenten



Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung

220 240V	50 60Hz	CL II	IP65	IK06
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Circle brackets and poles



Max weight: 12kg
 Max exposed surface: 0.25m²
 Lateral exposed surface: 0.08m²

Circle 01SC2			
Led (source flux) Ref. @700mA @4000K			
4020lm 24W B2	7845lm 48W C4	11575lm 71W D6	
Led (source flux) Ref. @700mA @3000K			
3835lm 24W B2	7480lm 48W C4	11040lm 71W D6	
mA			
700	525	350	0
K			
4000 0	3000 9		
Optics			
ST-01 30	ME-01 32	LA-01 31	LT-06 37
Colors			
Sablé100 C			
Smart Lighting			
Preset virtual midnight HM3			

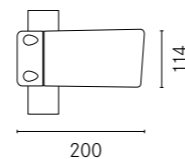
Esempio Example Beispiel

01SC2	C4	0	0	32	C	HM3
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Accessori Accessories Zubehör

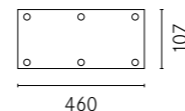
01SC902AD0 - Sablé100

K1 Braccio L 200mm per palo Ø60-76mm
 K1 Bracket L 200 mm pole Ø60-76mm
 K1 Ausleger L 200 mm Mast Ø60-76mm



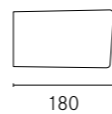
01SC906AD0 - Sablé100

K2 Estensione L 460mm per palo Ø114mm
 K2 Extension L 460mm pole Ø114mm
 K2 Verlängerung L 460mm Mast Ø114mm



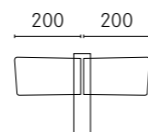
01SC903AD0 - Sablé100

K3 Attacco parete o base per estensione
 K3 Wall fastening system, extension base
 K3 Wandbefestigungssystem, Verlängerungsbasis



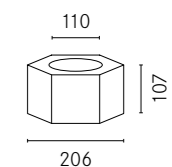
01SC908AD0 - Sablé100

K4 Braccio 2xL 200mm per palo Ø60-76mm
 K4 Bracket 2xL 200mm pole Ø60-76mm
 K4 Ausleger 2xL 200mm Mast Ø60-76mm



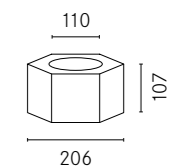
01SC904AD0 - Sablé100

E1 Esagono 1-2 Circle (180°) agganci per palo Ø114mm
 E1 Hexagon for 1-2 Circle (180°) fastenings pole Ø114mm
 E1 Hexagon für 1-2 Circle (180°) Befestigungen Mast Ø114mm

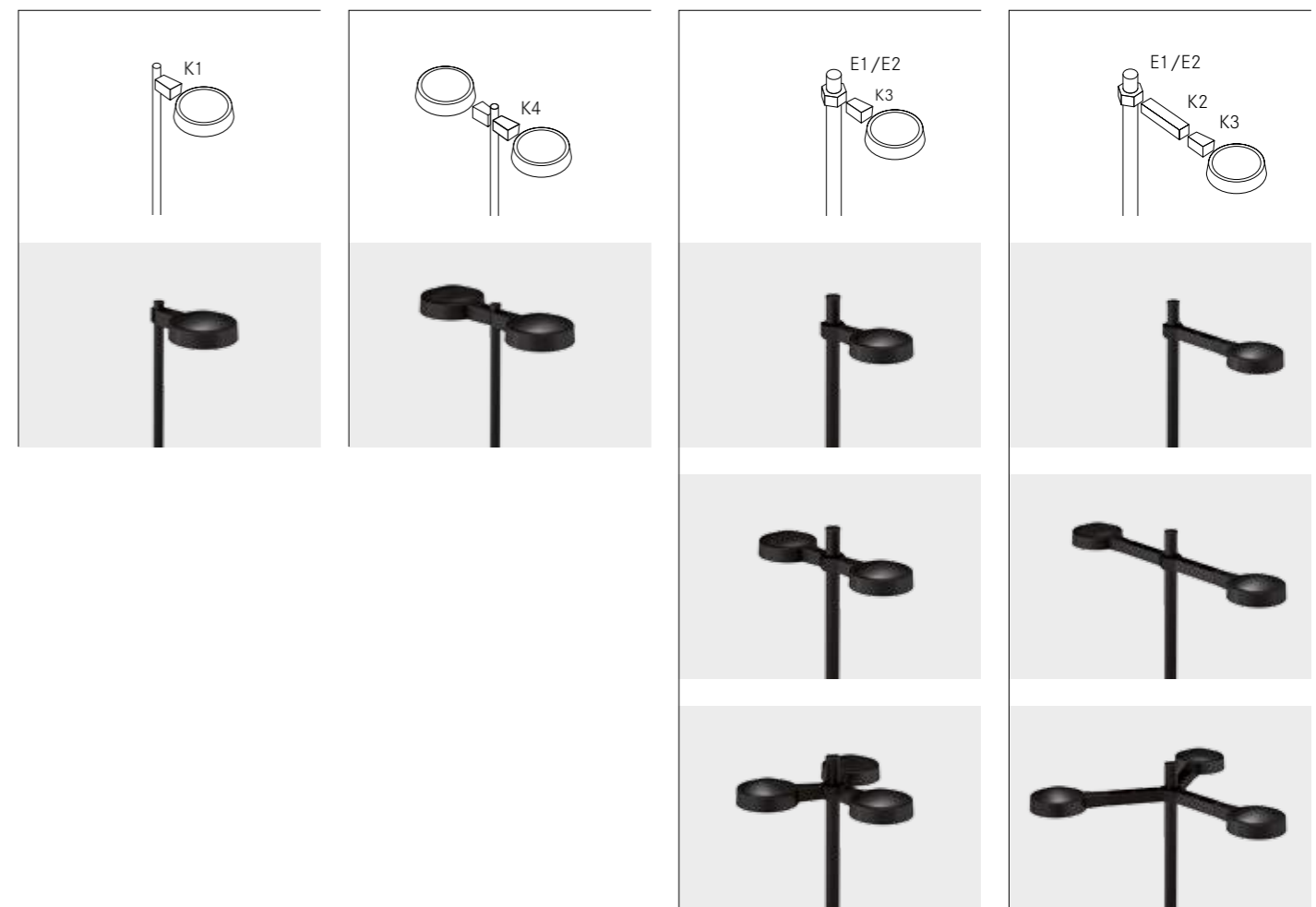


01SC905AD0 - Sablé100

E2 Esagono 2-3 Circle (120°) agganci per palo Ø114mm
 E2 Hexagon for 2-3 Circle (120°) fastenings pole Ø114mm
 E2 Hexagon für 2-3 Circle (120°) Befestigungen Mast Ø114mm

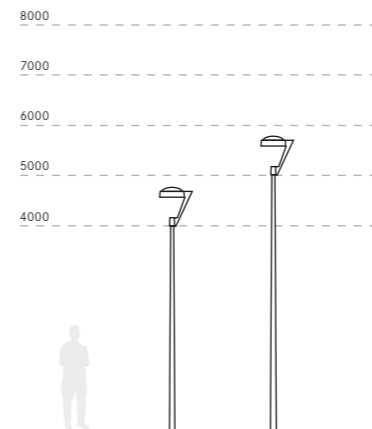


Configurazioni possibili Available configurations Mögliche Versionen



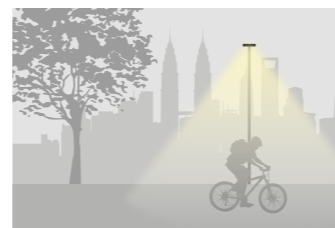
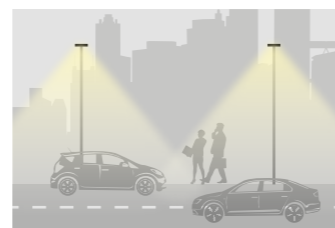
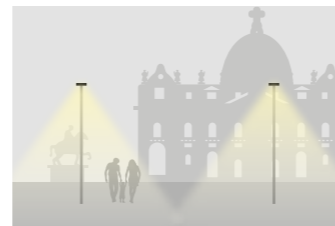
Seven

Fivep





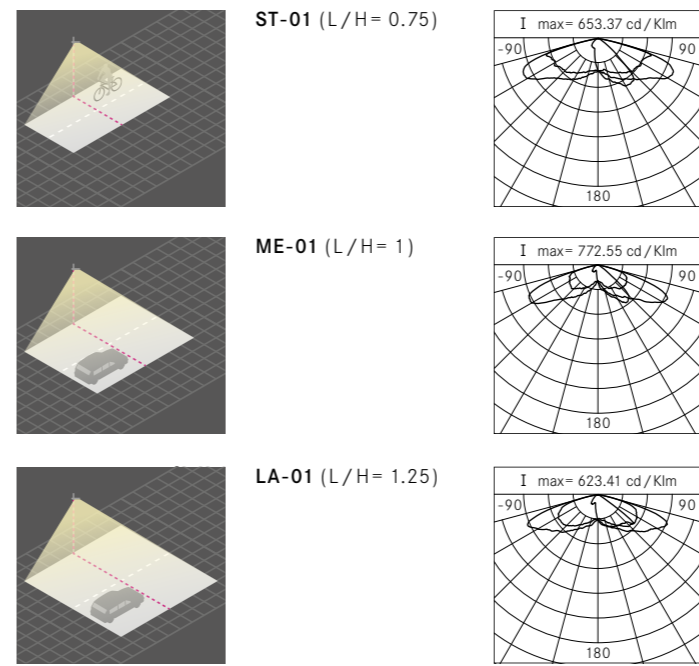
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



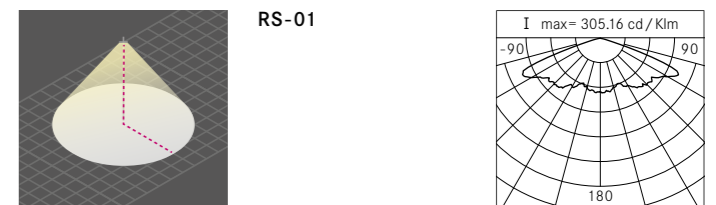
2130-11575 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20 > 160.000h @700mA @Ta25°C TM21 L80B10	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen

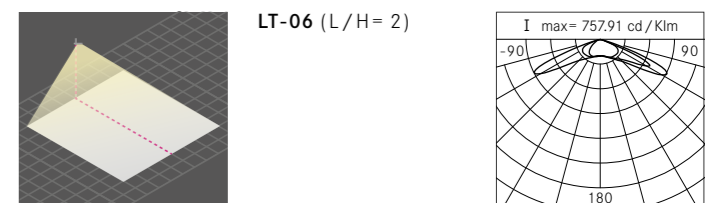
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, arm, Wand



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Cut-Off
Cut-Off
Cut-Off



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Precablaggio
Pre-wiring
Vorverkabelung



Separabilità delle componenti
Separable components
Trennbare Komponenten



CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥80 SMCD=4 auf Anfrage



Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



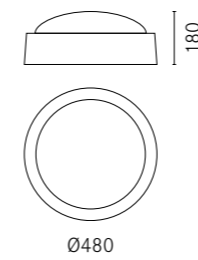
Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung

220 240V	50 60Hz	CL II	IP65	IK06
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Seven post top



Max weight: 12kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.08m²

Seven				
01SC2				
Led (source flux) Ref. @700mA @4000K				
4020lm 24W	7845lm 48W	11575lm 71W		
B2	C4	D6		
Led (source flux) Ref. @700mA @3000K				
3835lm 24W	7480lm 48W	11040lm 71W		
B2	C4	D6		
mA				
700	525	350		
0				
K				
4000	3000			
0	9			
Optics				
ST-01	ME-01	LA-01	RS-01	LT-06
30	32	31	35	37
Colors				
Sablé100				
C				
Smart Lighting				
Preset virtual midnight				
HM3				

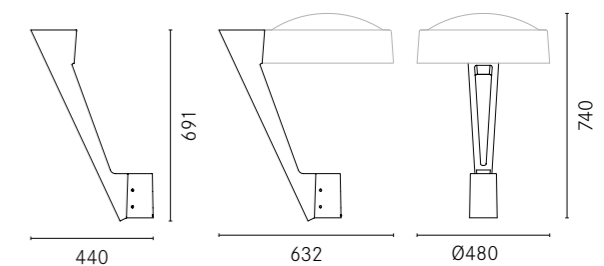
Esempio Example Beispiel

01SC2	C4	0	0	32	C	HM3
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Accessori Accessories Zubehör

01SC901AD0 - Sablé100

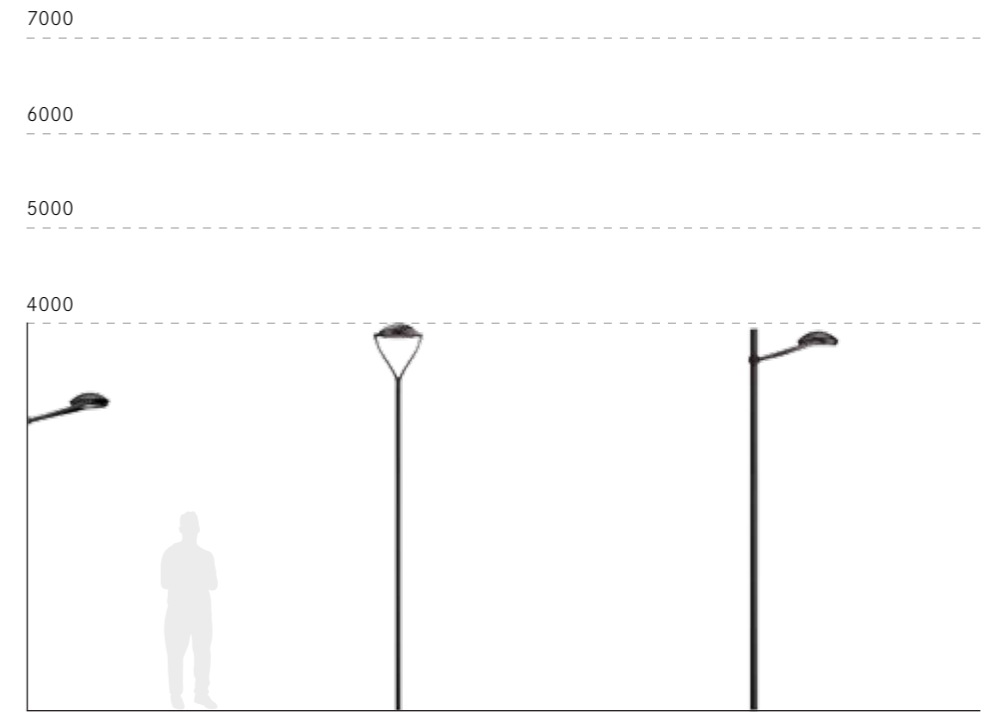
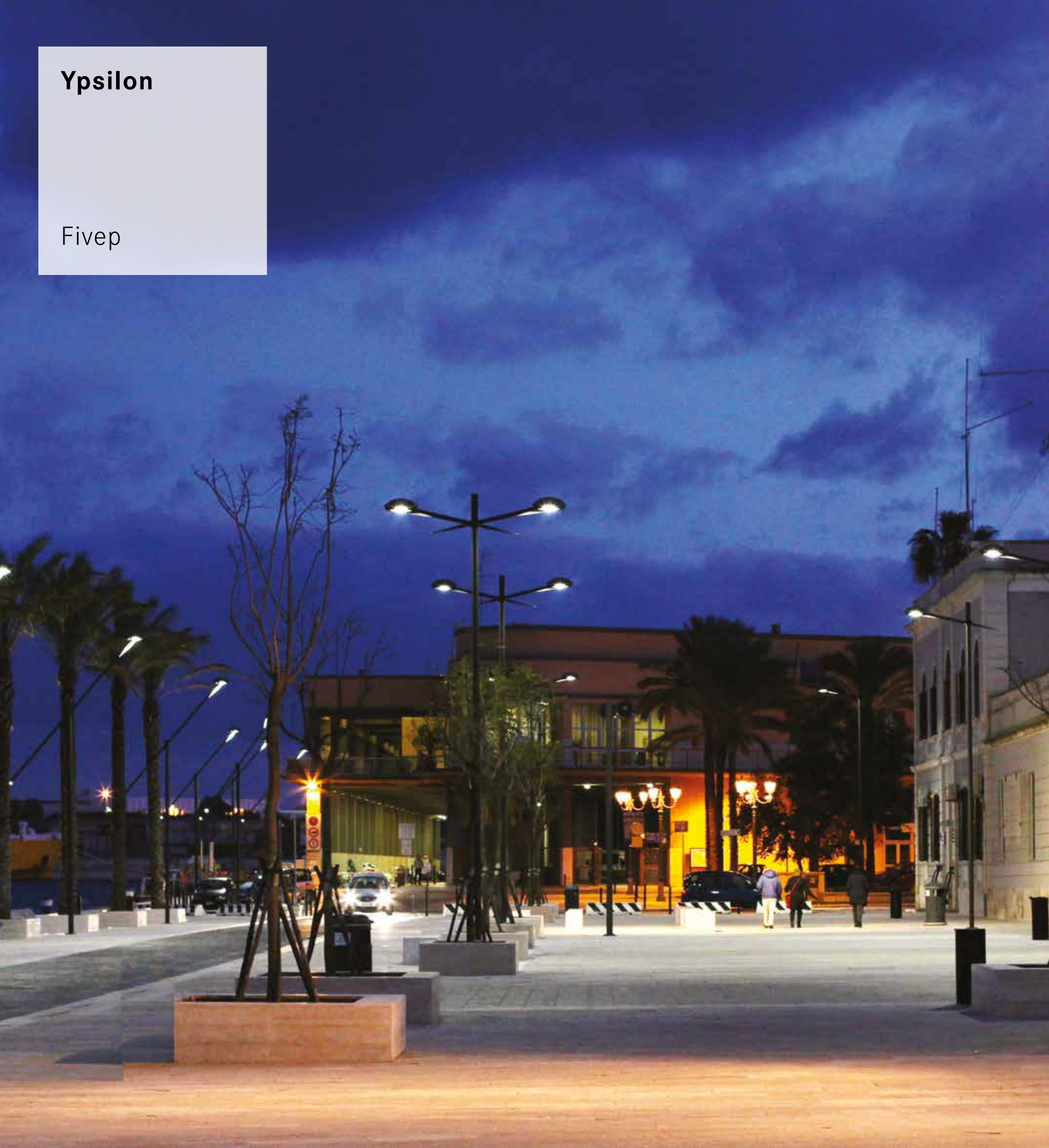
B23 Chela per palo Ø60-76mm
B23 Arm for post top Ø60-76mm
B23 Arm für Masten Ø60-76mm



Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

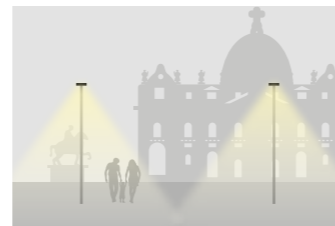
Ypsilon

Fivep





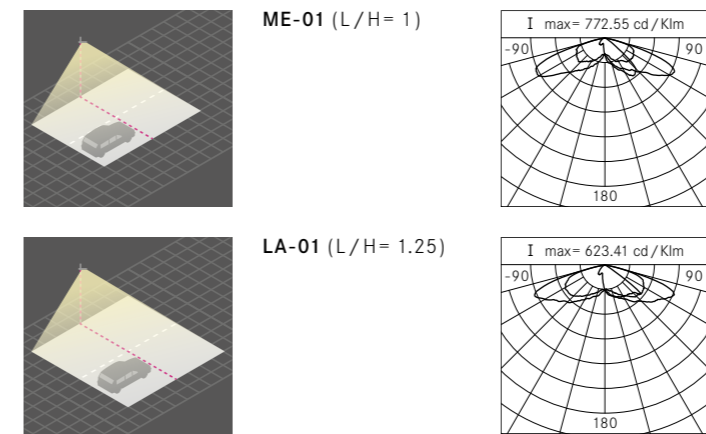
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



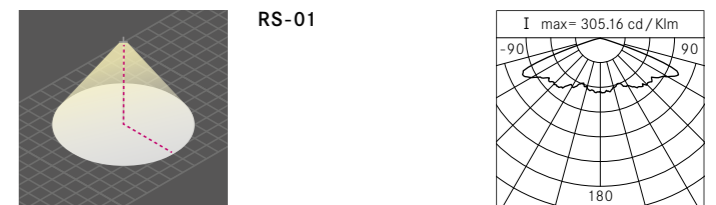
2235- 15380lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 130.000h @700mA @Ta25° C TM21 L80B20 > 130.000h @700mA @Ta25° C TM21 L80B10	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

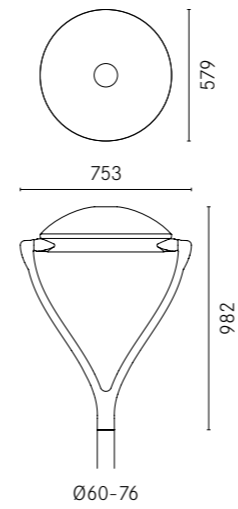
Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, arm, Wand

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage
	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung		

220 240V	50 60Hz	CL II	IP66	IK08
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Ypsilon Post top



Max weight: 16 kg
 Max exposed surface: 0.25m²
 Lateral exposed surface: 0.14m²

Ypsilon
01FY3

Led (source flux) Ref. @700mA @4000K

4015lm 24W B2	7845lm 48W C4	11640lm 72W D6
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Led (source flux) Ref. @700mA @3000K

3825lm 24W B2	7480lm 48W C4	11100lm 72W D6
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mA

700	525	350
0		

K

4000	3000
0	9

Optics

ME-01	LA-01	RS-01
32	31	35

Colors

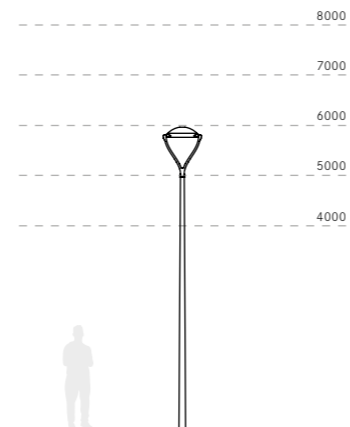
Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

01FY3	C4	0	0	32	C	HM3
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Accessori *Accessories* Zubehör

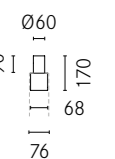
01AY904C0 - Sablé100

L7 Kit fissaggio per palo Ø60-68mm

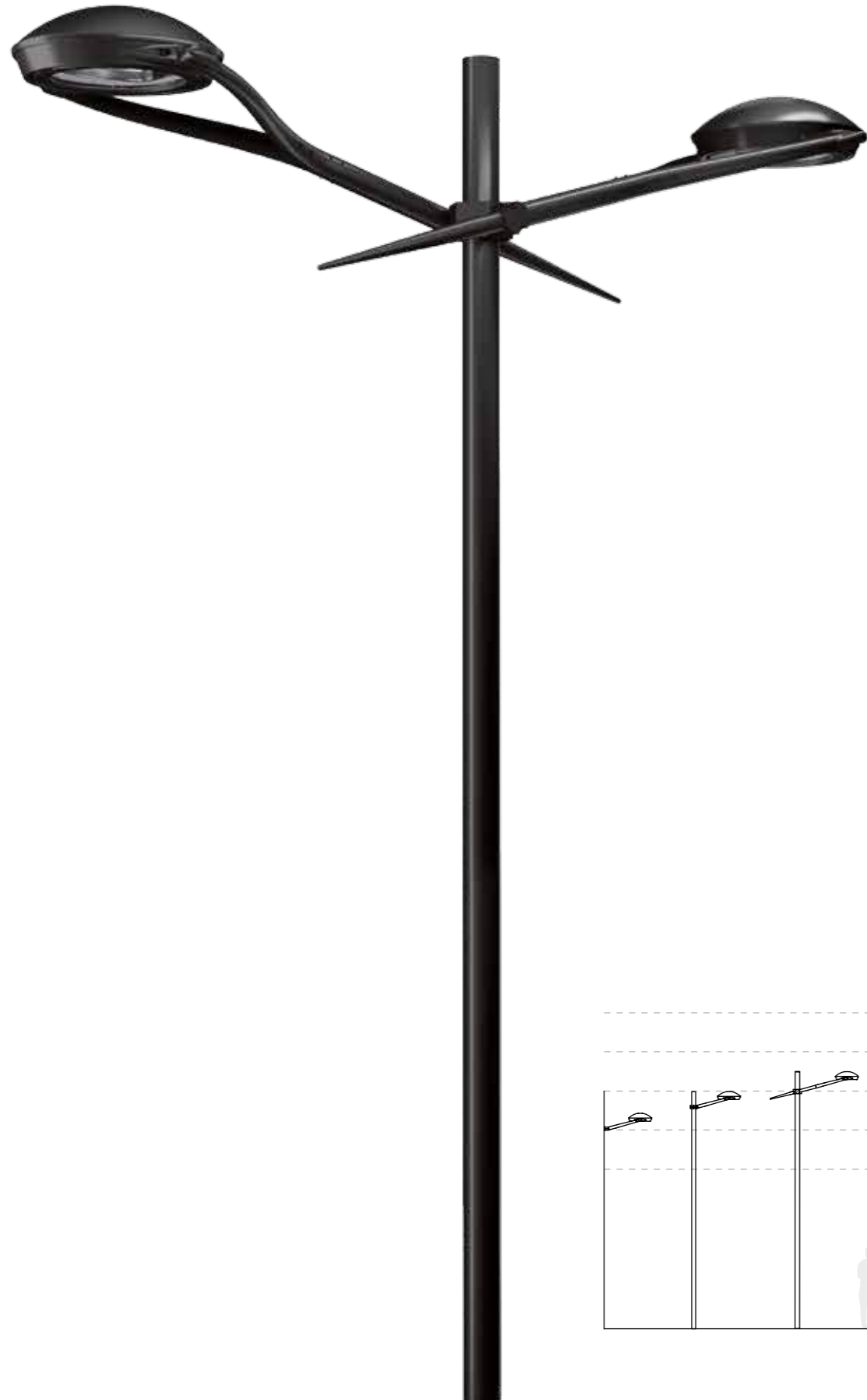
L7 Adapter for the installation on post top Ø60-68mm

L7 Adapter für die installation am Mastkopf Ø60-68mm

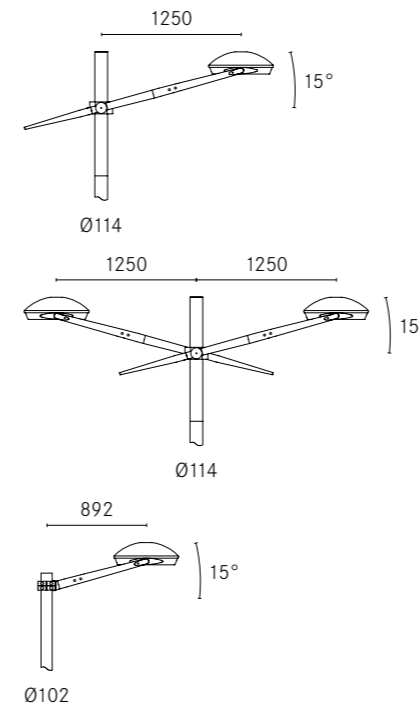
Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



220 240V	50 60Hz	CL II	IP66	IK08
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Ypsilon SIDE brackets and poles



Max weight: 16 kg
 Max exposed surface: 0.25m²
 Lateral exposed surface: 0.14m²

Esempio *Example* Beispiel

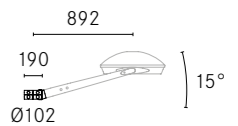
01FY3	C4	0	0	32	C	HM3
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Ypsilon 01FY3		
Led (source flux) Ref. @700mA @4000K		
7845lm 48W C4	11640lm 72W D6	15380lm 95W E8
Led (source flux) Ref. @700mA @3000K		
7480lm 48W C4	11100lm 72W D6	14665lm 95W E8
mA		
700	525	350
0		
K		
4000	3000	
0	9	
Optics		
ME-01	LA-01	
32	31	
Colors		
Sablé100		
C		
Smart Lighting		
Preset virtual midnight		
HM3		

Accessori *Accessories* Zubehör

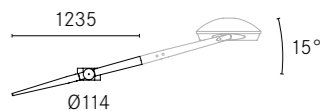
01AY901C0 - Sablé100

L6 Giunto per palo Ø102mm, braccio inclinato 15°
 L6 Coupling for poles Ø102mm, 15° inclined arm
 L6 Verbindungselement für Ø102mm Masten, 15° schiefen Arm



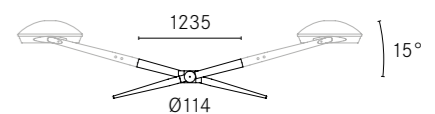
01AY902C0 - Sablé100

B25 Esagono per palo Ø114mm, braccio inclinato 15° con puntale
 B25 Hexagon for poles Ø114mm, 15° inclined arm with decorative metal point
 B25 Hexagon für Ø114mm Masten, 15° schiefen Arm und dekorativen Metallspitze



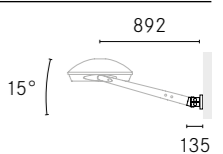
01AY905C0 - Sablé100

B27 Esagono per palo Ø114mm, 2 bracci inclinati 15° con puntale
 B27 Hexagon for poles Ø114mm, 2 15° inclined arms with decorative metal point
 B27 Hexagon für Ø114mm Masten, 2 15° schiefen Arme und dekorativen Metallspitze

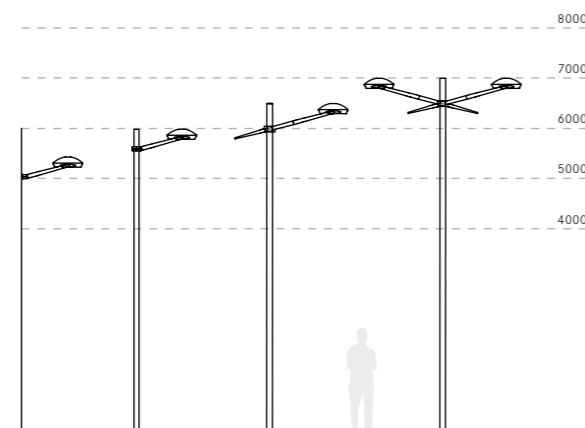


01AY906C0 - Sablé100

P2 Kit fissaggio parete 15° per palo Ø60-76mm
 P2 Kit for wall fastening with 15° inclination on post Ø60-76mm
 P2 Ausleger für wandinstallation mit neigung 15° an Mast Ø60-76mm



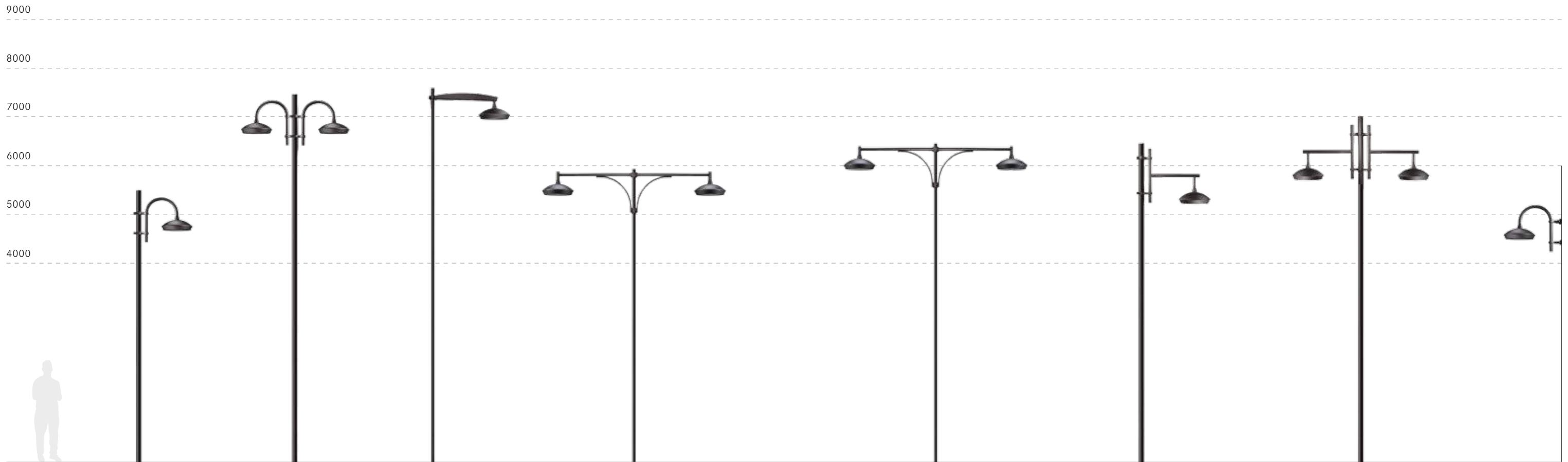
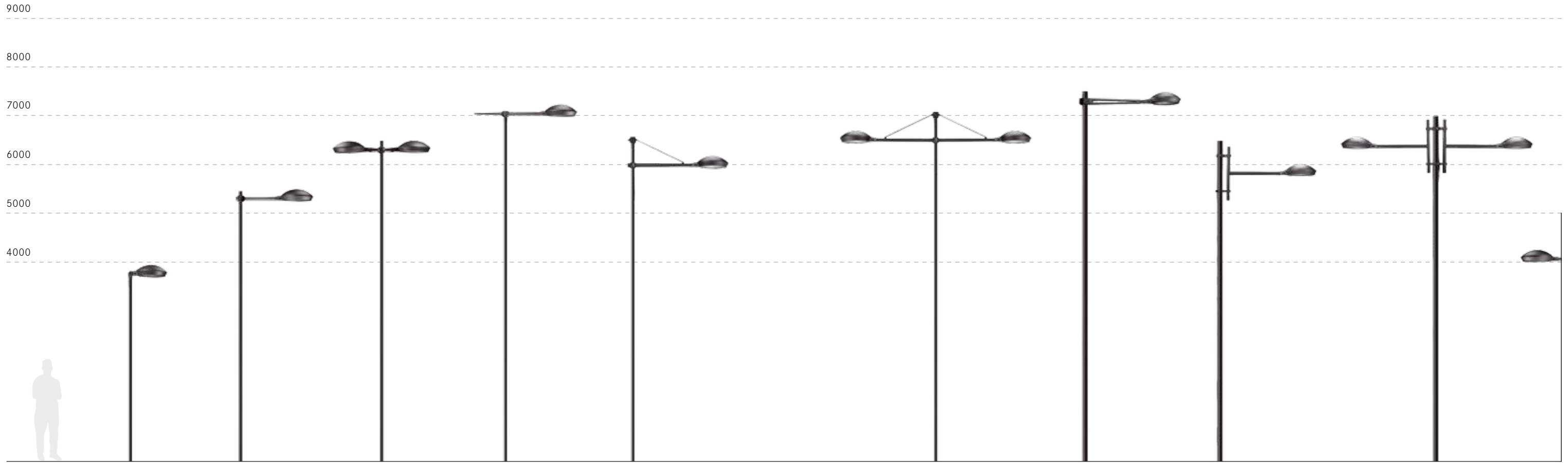
Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



Flat Link

Fivep







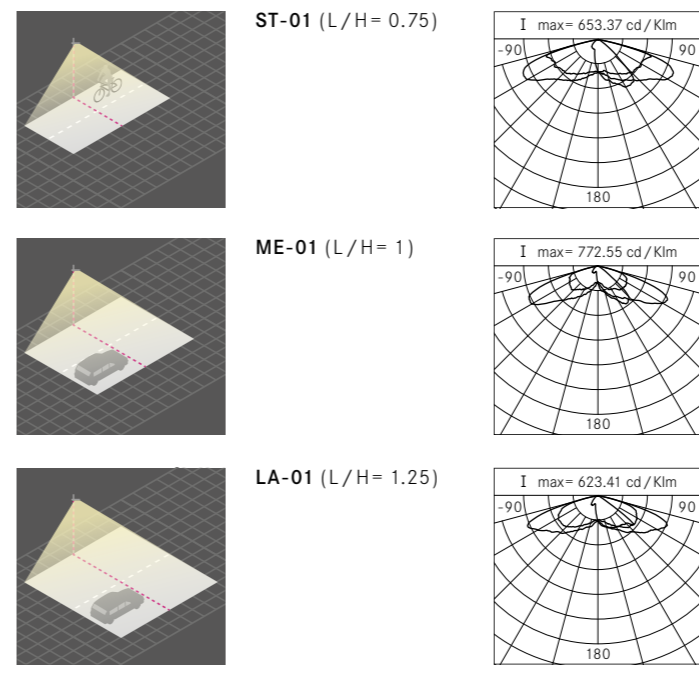
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



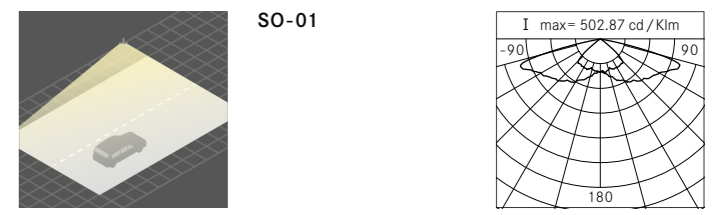
1940-11180lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>130.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>130.000h @700mA @Ta25°C TM21 L80B10	

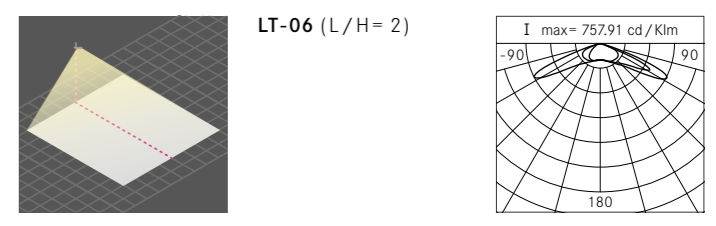
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



Ottiche asimmetriche Asymmetrical optics Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

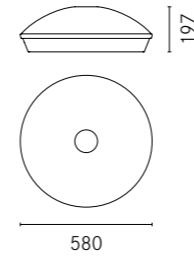
Installazione: palo, braccio, parete, tesata
Installation: pole, arm, wall, string
Installation: Mast, Arm, Wand, Drahtseil

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage
	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung		

220 240V	50 60Hz	CL II	IP66	IK08
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Flat Link L
SIDE brackets and poles
LED



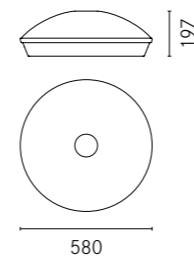
Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link L				
01FK3				
Led (source flux) Ref. @700mA @4000K				
7845lm 48W C4	11640lm 72W D6	15380lm 95W E8	19050lm 119W G0	
Led (source flux) Ref. @700mA @3000K				
7480lm 48W C4	11100lm 72W D6	14665lm 95W E8	18165lm 119W G0	
mA				
700	525	350	0	
K				
4000	3000	0 9		
Optics				
ST-01* 30	ME-01 32	LA-01 31	LT-06 37	*Only 7845lm
Colors				
Sablé100 C				
Smart Lighting				
Preset virtual midnight HM3				

Esempio *Example* Beispiel

01FK3	C4	0	0	32	C	HM3
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Flat Link L
SIDE brackets and poles
LAMPS

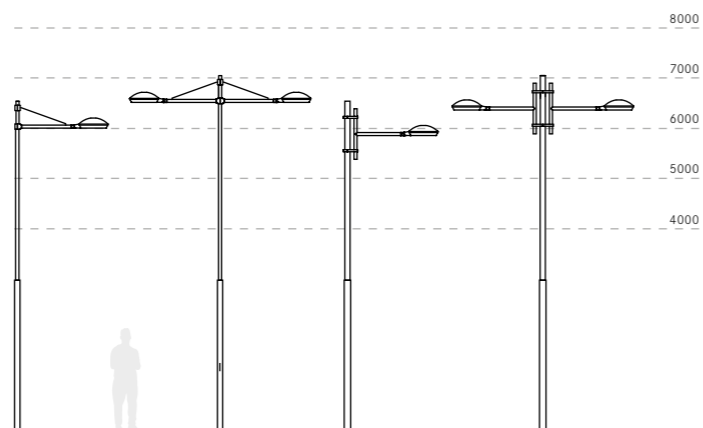
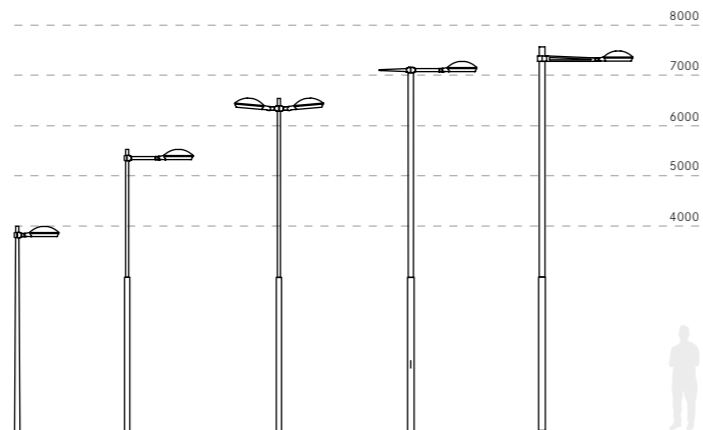


Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link L				
01FK1				
Lamps				
ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	ST 250W E40 33200lm PO	
MT 70W E27 7000lm LI	MT 100W E40 10000lm NI	MT 150W E40 14500lm OI	MT 250W E40 25800lm PI	
MT-PWB 35W G12 3300lm EI		CPO-TW 60W PGZ-12 6800lm II		
MT 70W E27 7000lm LI		ST 70W E27 6800lm LO		
Optics				
Street optics G		Cycle routes optics H		
Colors				
Sablé100 C				

Esempio *Example* Beispiel

01FK1	LO	G	C
01FK1	EI	H	C

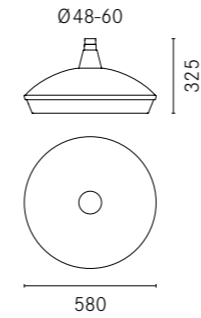


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK08
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Flat Link S
DOWN brackets and poles
LED



Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link S
01FK4

Led (source flux) Ref. @700mA @4000K

7845lm 48W C4	11640lm 72W D6	15380lm 95W E8	19050lm 119W G0
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Led (source flux) Ref. @700mA @3000K

7480lm 48W C4	11100lm 72W D6	14665lm 95W E8	18165lm 119W G0
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mA

700	525	350
0		

K

4000	3000
0	9

Optics

ST-01*	ME-01	LA-01	LT-06	*Only 7845lm
30	32	31	37	

Colors

Sablé100
C

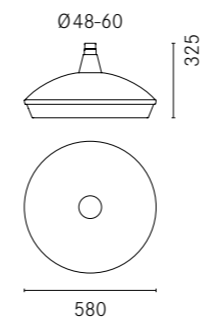
Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

01FK4	D6	0	0	32	C	HM3
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Flat Link S
DOWN brackets and poles
LAMPS



Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link S
01FK2

Lamps

ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	ST 250W E40 33200lm PO
MT 70W E27 7000lm LI	MT 100W E40 10000lm NI	MT 150W E40 14500lm OI	MT 250W E40 25800lm PI
MT-PWB 35W G12 3300lm EI		CPO-TW 60W PGZ-12 6800lm II	
MT 70W E27 7000lm LI		ST 70W E27 6800lm LO	

Optics

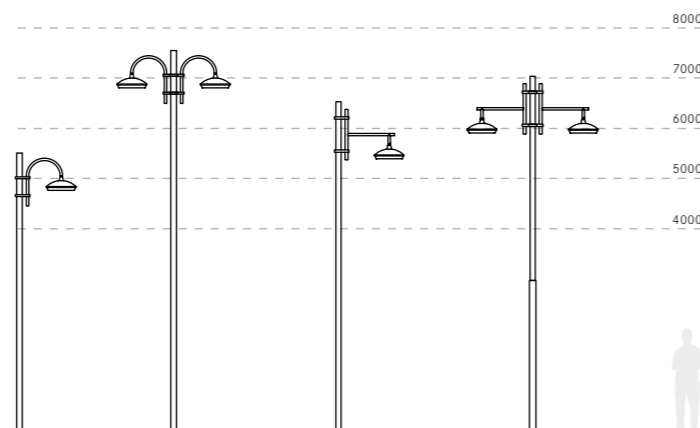
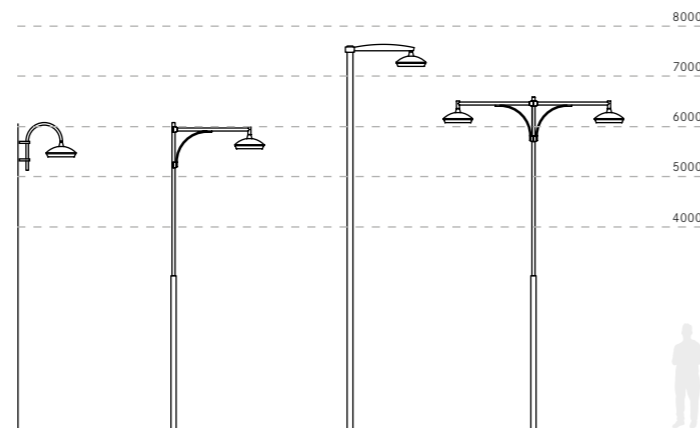
Street optics	Cycle routes optics
G	H

Colors

Sablé100
C

Esempio *Example* Beispiel

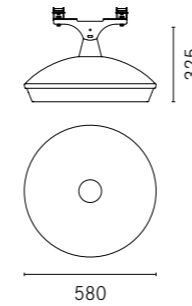
01FK2	LO	G	C
01FK2	EI	H	C



220 240V	50 60Hz	CL II	IP66	IK08
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Flat Link S
DOWN string suspension
LED



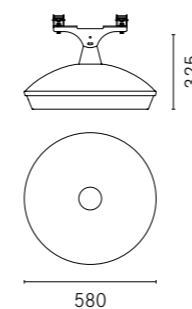
Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link S 01FK4		
Led (source flux) Ref. @700mA @4000K		
7845lm 48W C4	11640lm 72W D6	15380lm 95W E8
Led (source flux) Ref. @700mA @3000K		
7480lm 48W C4	11100lm 72W D6	+
mA		
700	525	350
0		
K		
4000	3000	
0 9		
Optics		
SO-01		
39		
Colors		
Sablé100		
C		
Smart Lighting		
Preset virtual midnight		
HM3		

Esempio *Example* Beispiel

01FK4	D6	0	0	39	C	HM3
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Flat Link S
DOWN string suspension
LAMPS

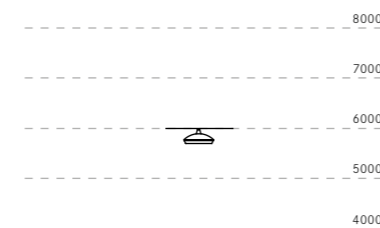
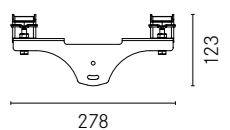


Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Flat Link S 01FK2			
Lamps			
ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	ST 250W E40 33200lm PO
MT 70W E27 7000lm LI	MT 100W E40 10000lm NI	MT 150W E40 14500lm OI	MT 250W E40 25800lm PI
Optics			
Street optics symmetrical			
O			
Colors			
Sablé100			
C			
Esempio <i>Example</i> Beispiel			
01FK2	LO	O	C

Accessori Accessories Zubehör

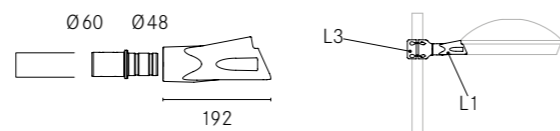
01AK913C0
Kit di sospensione per fune tesata
Suspension kit for string
Aufhängungskit auf Drahtseil



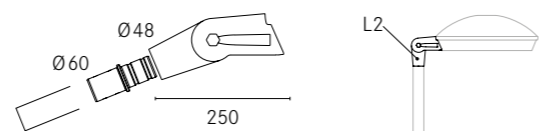
Accessori Accessories Zubehör Flat Link L SIDE Brackets and poles

01AK901C0 - Sablé 100

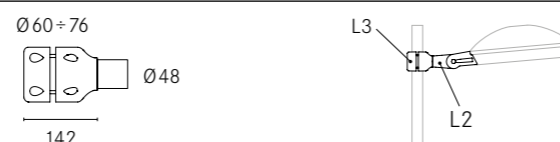
- L1 Kit laterale fisso Ø48-60mm
L1 Kit side fix fastening arm Ø48-60mm
 L1 Kit fester seitlicher Anschluss Ø48-60mm

**01AK902C0 - Sablé 100**

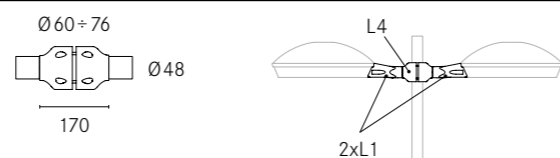
- L2 Kit laterale regolabile Ø48-60mm
L2 Kit side adjustable arm Ø48-60mm
 L2 Kit fester seitlicher Anschluss Ø48-60mm

**01AK903C0 - Sablé 100**

- L3 Giunto singolo per palo Ø60-76mm
L3 Simple joint kit for post Ø60-76mm
 L3 Kit Einzel-Mastanschluss Ø60-76mm

**01AK904C0 - Sablé 100**

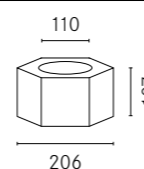
- L4 Giunto doppio per palo Ø60-76mm
L4 Double joint kit for post Ø60-76mm
 L4 Kit Doppel-Mastanschluss Ø60-76mm

**01AK906C0 - Sablé 100**

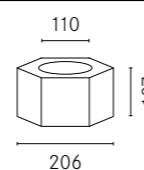
- P1 Kit parete Ø48-60mm
P1 Wall lateral fastening kit Ø48-60mm
 P1 Wandkit für Seitenanschluss Ø48-60mm

**01SC904AD0 - Sablé 100**

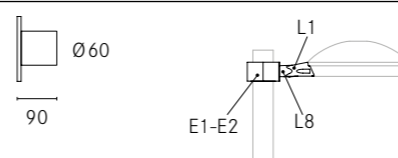
- E1 Esagono 1-2 Link (180°) per palo Ø114mm
E1 Hexagon for 1-2 fastenings (180°), post Ø114mm
 E1 Hexagon für 1-2 Befestigungen (180°), Mast Ø114mm

**01SC905AD0 - Sablé 100**

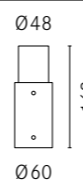
- E2 Esagono 2-3 Link (120°) per palo Ø114mm
E2 Hexagon for 2-3 fastenings (120°), post Ø114mm
 E2 Hexagon für 2-3 Befestigungen (120°), Mast Ø114mm

**01AK943C0 - Sablé 100**

- L8 Raccordo tubolare Ø60mm per esagono per palo Ø114mm
L8 Tubular connection kit Ø60mm for hexagon for post Ø114mm
 L8 Kit röhrenförmiger Anschluss Ø60mm für Sechseck für masten Ø114mm

**01AK910C0 - Sablé 100**

- L12 Giunto testa palo Ø60mm
L12 Joint for post top Ø60mm
 L12 Mastanschlussstück Ø60mm

**01AK949C0 - Sablé 100**

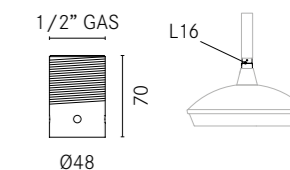
- P3 Piastra parete universale
P3 Universal wall plate
 P3 Universal-Wandplatte



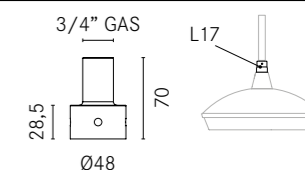
Accessori Accessories Zubehör Flat Link S DOWN Brackets and poles

01AK907C0 - Sablé 100

- L16 Kit sospensione maschio 1/2" gas
L16 Kit for suspended installation with 1/2" joint
 L16 Zubehör für die aufhängung mit 1/2" verbindung

**01AK914C0 - Sablé 100**

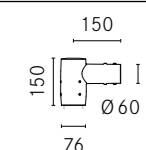
- L17 Kit sospensione maschio 3/4" gas
L17 Kit for suspended installation with 3/4" joint
 L17 Zubehör für die aufhängung mit 3/4" verbindung



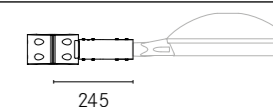
Accessori Accessories Zubehör Flat Link

06AK905C0 - Sablé 100

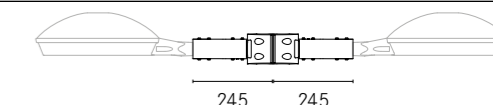
- B153 Giunto testa palo Ø60mm
B153 Joint post top Ø60mm
 B153 Druckguss Mastverbindungstück Ø60mm Mast

**06AK906C0 - Sablé 100**

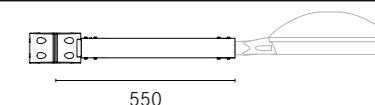
- B154 Braccio singolo L 245mm palo Ø102mm
B154 Single arm L 245mm pole Ø102mm
 B154 Einarmig L 245mm Mast Ø102mm

**06AK908C0 - Sablé 100**

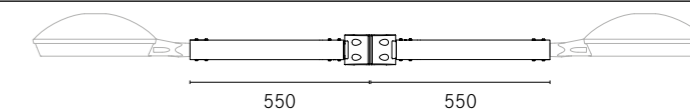
- B156 Braccio doppio L 245mm palo Ø102mm
B156 Double arm L 245mm pole Ø102mm
 B156 Doppelarm L 245mm Mast Ø102mm

**06AK907C0 - Sablé 100**

- B155 Braccio singolo L 550mm palo Ø102mm
B155 Single arm L 550mm pole Ø102mm
 B155 Einarmig L 550mm Mast Ø102mm

**06AK909C0 - Sablé 100**

- B157 Braccio doppio L 550mm palo Ø102mm
B157 Double arm L 550mm pole Ø102mm
 B157 Doppelarm L 550mm Mast Ø102mm



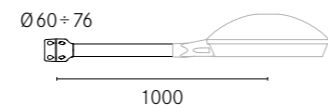
Accessori Accessories Zubehör

01AK921C0 - Sablé 100

B1 Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm

B1 Arm tubular Ø60mm L 1000mm for Ø60-76mm pole

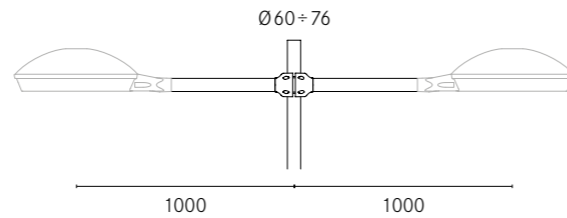
B1 Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm

**01AK922C0 - Sablé 100**

B2 Braccio tubolare doppio Ø60mm L 1000mm per palo Ø60-76mm

B2 Double arm tubular Ø60mm L 1000mm for Ø60-76mm pole

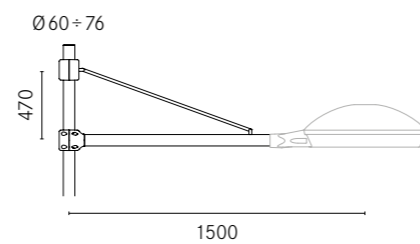
B2 Doppelarm Rohr Ø60mm L 1000mm für Masten Ø60-76mm

**01AK923C0 - Sablé 100**

B3 Braccio tubolare singolo Ø60mm L 1500mm con tirante per palo Ø60-76mm

B3 Arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole

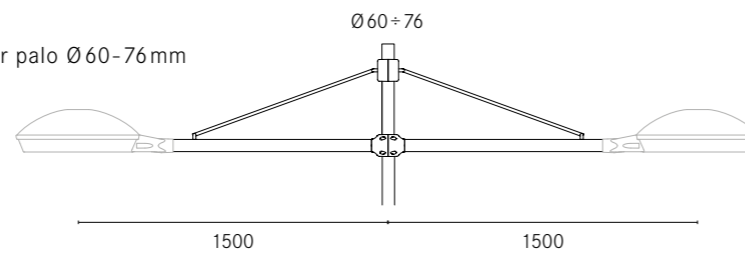
B3 Arm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm

**01AK924C0 - Sablé 100**

B4 Braccio tubolare doppio Ø60mm L 1500mm con tirante per palo Ø60-76mm

B4 Double arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole

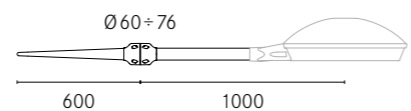
B4 Doppelarm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm

**01AK925C0 - Sablé 100**

B5 Braccio tubolare singolo Ø60mm L 1000mm con puntale per palo Ø60-76mm

B5 Arm tubular Ø60mm L 1000mm with pointed rod for Ø60-76mm pole

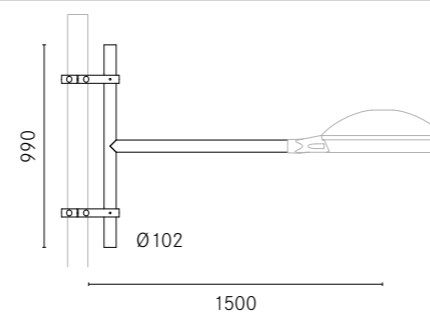
B5 Arm Rohr Ø60mm L 1000mm mit Spitze für Masten Ø60-76mm

**01AK929C0 - Sablé 100**

B9 Braccio "T" orizzontale singolo Ø60mm L 1500mm per palo Ø102mm

B9 Arm horizontal T-shape Ø60mm L 1500mm for Ø102mm pole

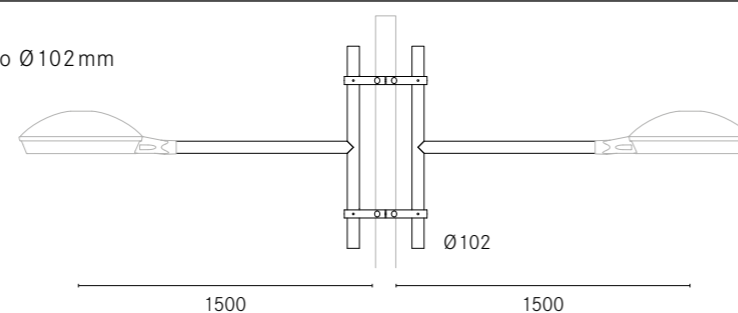
B9 Arm in waagerechtem "T" Ø60mm L 1500mm für Masten Ø102mm

**01AK930C0 - Sablé 100**

B10 Braccio "T" orizzontale doppio Ø60mm L 1500mm per palo Ø102mm

B10 Double arm horizontal T-shape Ø60mm L 1500mm for Ø102mm pole

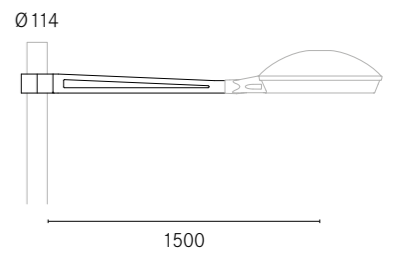
B10 Doppelarm in waagerechtem "T" Ø60mm L 1500mm für Masten Ø102mm

**01AK931C0 - Sablé 100**

B11 Braccio lavorato L 1500mm per palo Ø114mm

B11 Arm machined L 1500mm for Ø114mm pole

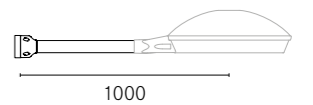
B11 Arm verarbeitet L 1500mm für Masten Ø114mm

**01AK951C0 - Sablé 100**

B1-P Braccio parete tubolare Ø60mm L 1000mm

B1-P Tubular arm for wall Ø60mm L 1000mm

B1-P Wand Arm Rohr Ø60mm L 1000mm



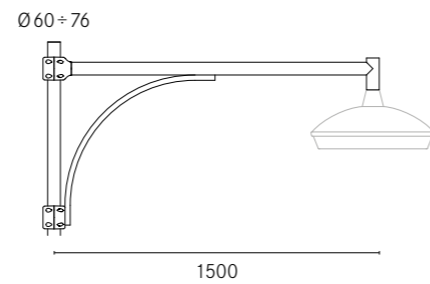
Accessori Accessories Zubehör

01AK933C0 - Sablé 100

B13 Braccio ad arco singolo Ø60mm L 1500mm per palo Ø60-76mm

B13 Arm arched Ø60mm L 1500mm for Ø60-76mm pole

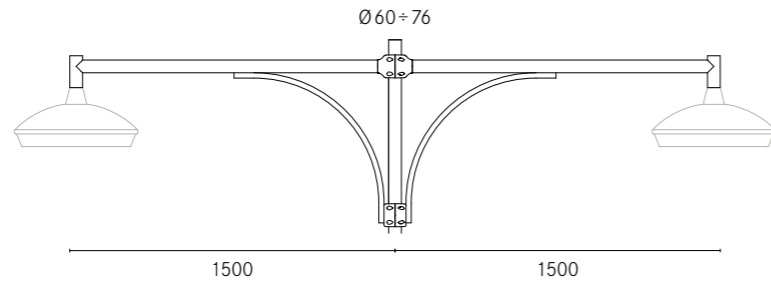
B13 Arm bogenförmig Ø60mm L 1500mm für Masten Ø60-76mm

**01AK934C0 - Sablé 100**

B14 Braccio ad arco doppio Ø60mm L 1500mm per palo Ø60-76mm

B14 Double arm arched Ø60mm L 1500mm for Ø60-76mm pole

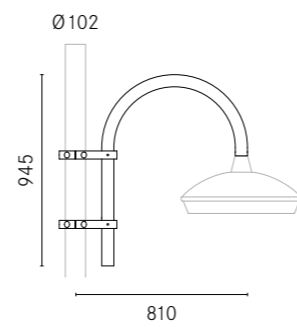
B14 Doppelarm bogenförmig Ø60mm L 1500mm für Masten Ø60-76mm

**01AK935C0 - Sablé 100**

B15 Braccio pastorale singolo Ø60mm L 810mm per palo Ø102mm

B15 Arm pastoral Ø60mm L 810mm for Ø102mm pole

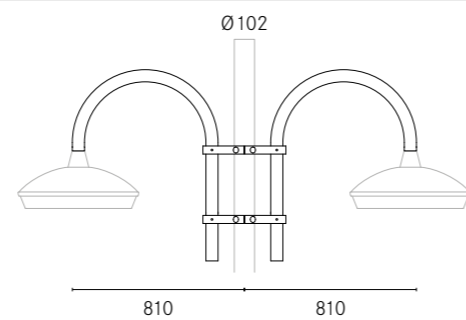
B15 Arm gebogen Ø60mm L 810mm für Masten Ø102mm

**01AK936C0 - Sablé 100**

B16 Braccio pastorale doppio Ø60mm L 810mm per palo Ø102mm

B16 Double arm pastoral Ø60mm L 810mm for Ø102mm pole

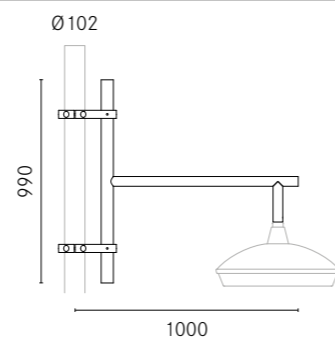
B16 Doppelarm gebogen Ø60mm L 810mm für Masten Ø102mm

**01AK937C0 - Sablé 100**

B17 Braccio "T" orizzontale singolo Ø60mm L 1000mm per palo Ø102mm

B17 Arm horizontal T-shape Ø60mm L 1000mm for Ø102mm pole

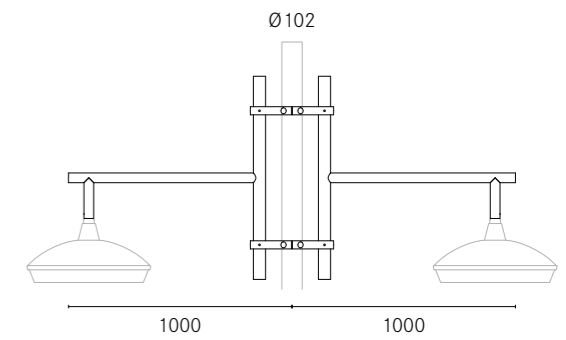
B17 Arm in waagerechtem "T" Ø60mm L 1000mm für Masten Ø102mm

**01AK938C0 - Sablé 100**

B18 Braccio "T" orizzontale doppio Ø60mm L 1000mm per palo Ø102mm

B18 Double arm horizontal T-shape Ø60mm L 1000mm for Ø102mm pole

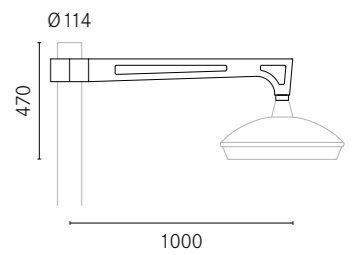
B18 Doppelarm in waagerechtem "T" Ø60mm L 1000mm für Masten Ø102mm

**01AK941C0 - Sablé 100**

B21 Braccio lavorato L 1000mm per palo Ø114mm

B21 Arm machined L 1000mm for Ø114mm pole

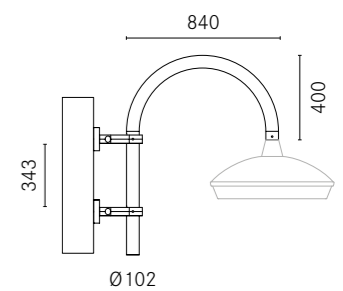
B21 Arm verarbeitet L 1000mm für Masten Ø114mm

**01AK950C0 - Sablé 100**

B1-P Braccio parete pastorale Ø60mm L 840mm

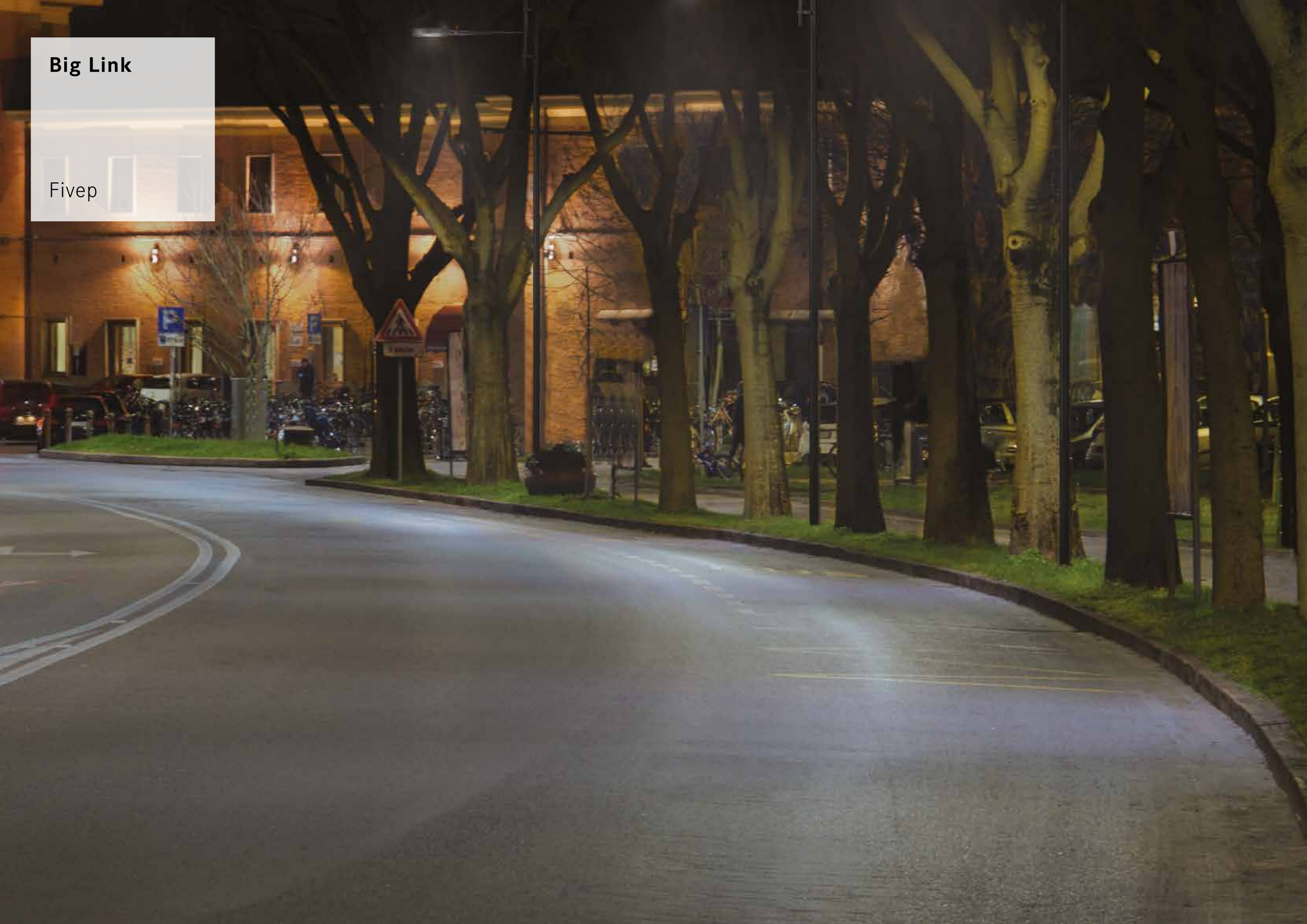
B1-P Pastoral arm for wall Ø60mm L 840mm

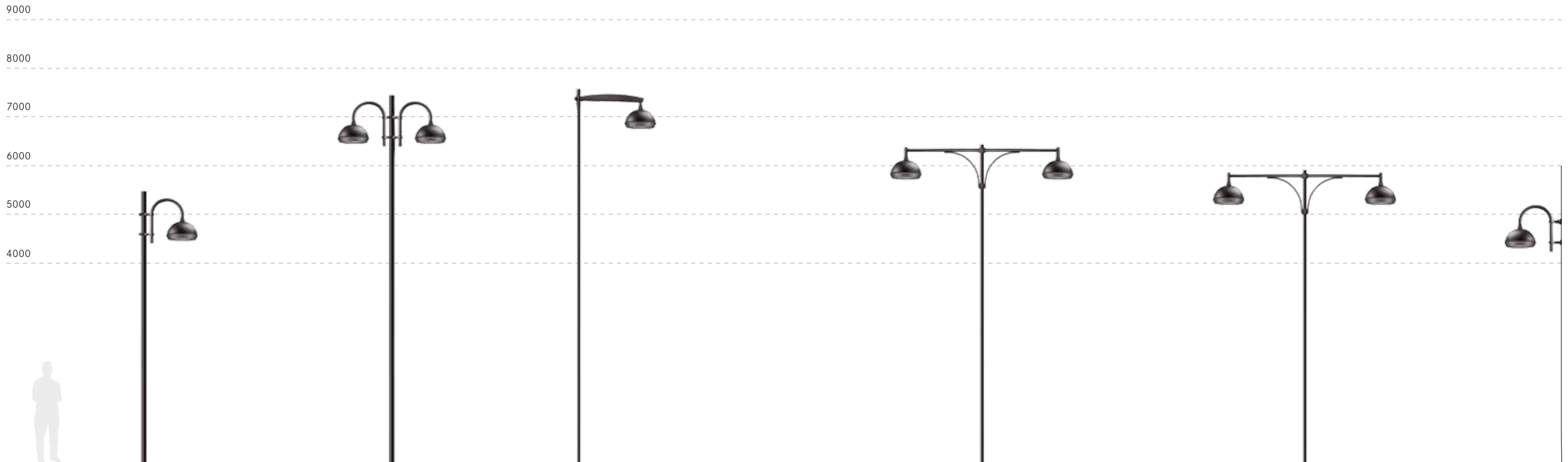
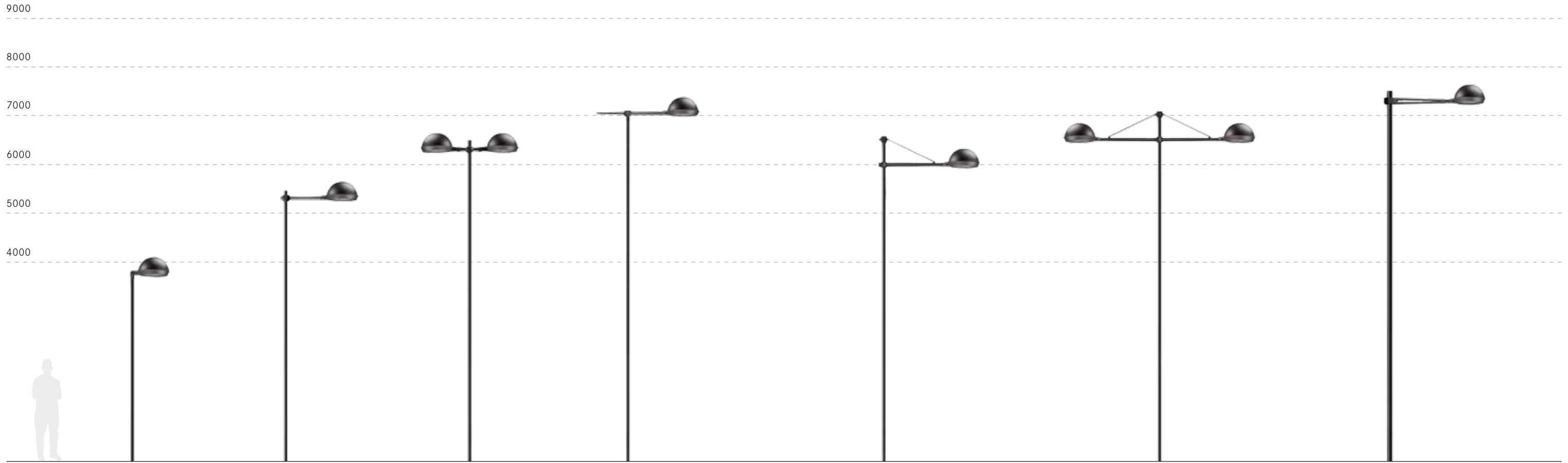
B1-P Wand Arm gebogen Ø60mm L 840mm



Big Link

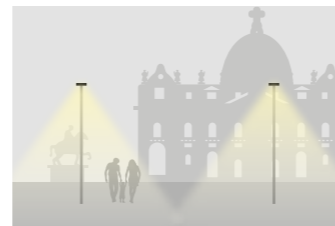
Fivep







220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO on request 1-10V on request PLC on request DALI on request Pilot line on request Main voltage variation on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

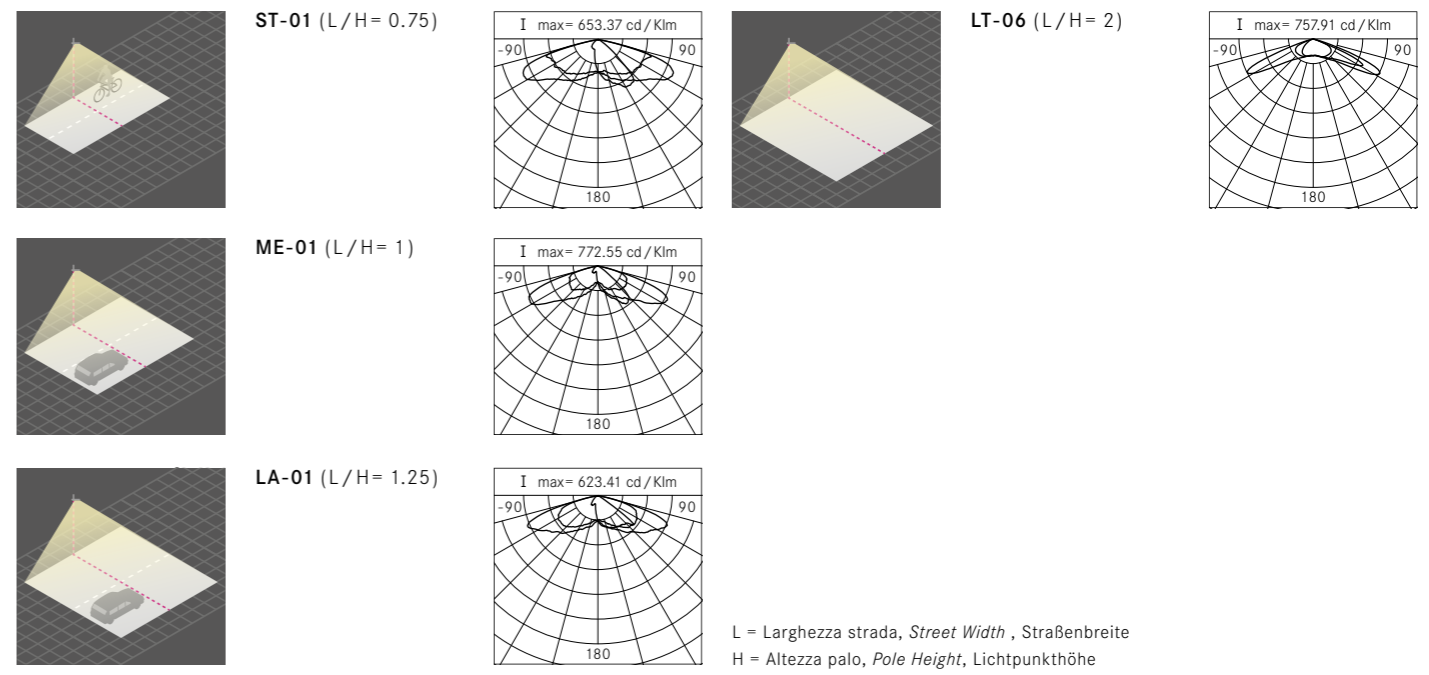


4215-11180lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>130.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>130.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte

Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

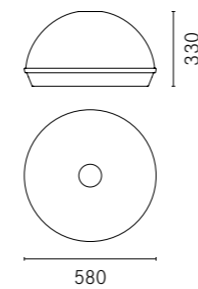
Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, arm, Wand

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage
	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		130.000h L80B20 L80B10 Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit		Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung

220 240V	50 60Hz	CL II	IP66	IK08
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Big Link L SIDE brackets and poles



Max weight: 11 kg
 Max exposed surface: 0.25m²
 Lateral exposed surface: 0.14m²

Big Link L
01BK3

Led (source flux) Ref. @700mA @4000K

7845lm 48W C4	11640lm 72W D6	15380lm 95W E8
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Led (source flux) Ref. @700mA @3000K

7480lm 48W C4	11100lm 72W D6	14665lm 95W E8
-------------------------	--------------------------	--------------------------

mA

700	525	350
0		

K

4000	3000
0	9

Optics

ST-01*	ME-01	LA-01	LT-06	*Only 7845lm
30	32	31	37	

Colors

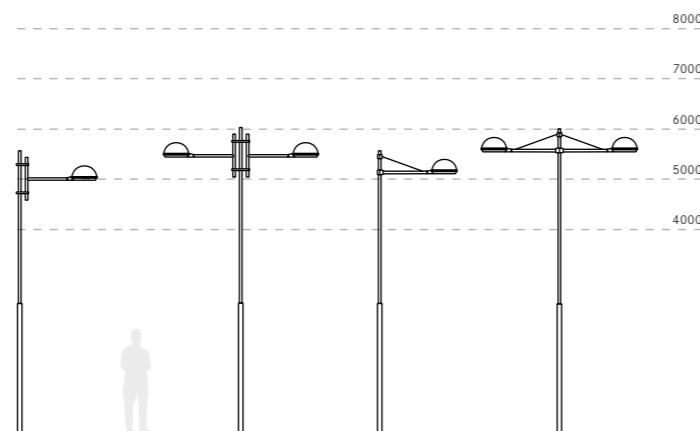
Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio Example Beispiel

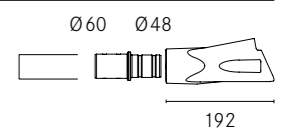
01BK3	C4	0	9	32	C	HM3
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Accessori Accessories Zubehör

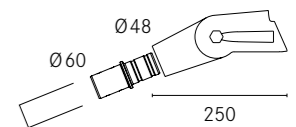
01AK901C0 - Sablé 100

- L1 Kit laterale fisso Ø48-60mm
- L1 Kit side fix fastening arm Ø48-60mm
- L1 Kit fester seitlicher Anschluss Ø48-60mm



01AK902C0 - Sablé 100

- L2 Kit laterale regolabile Ø48-60mm
- L2 Kit side adjustable arm Ø48-60mm
- L2 Kit fester seitlicher Anschluss Ø48-60mm

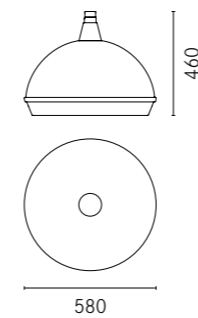


Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK08
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Big Link S
DOWN brackets and poles



Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.14m²

Big Link S
01BK4

Led (source flux) Ref. @700mA @4000K

7845lm 48W C4	11640lm 72W D6	15380lm 95W E8
-------------------------	--------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

7480lm 48W C4	11100lm 72W D6	14665lm 95W E8
-------------------------	--------------------------	--------------------------

mA

700	525	350
0		

K

4000	3000
0	9

Optics

ST-01*	ME-01	LA-01	LT-06	*Only 7845lm
30	32	31	37	

Colors

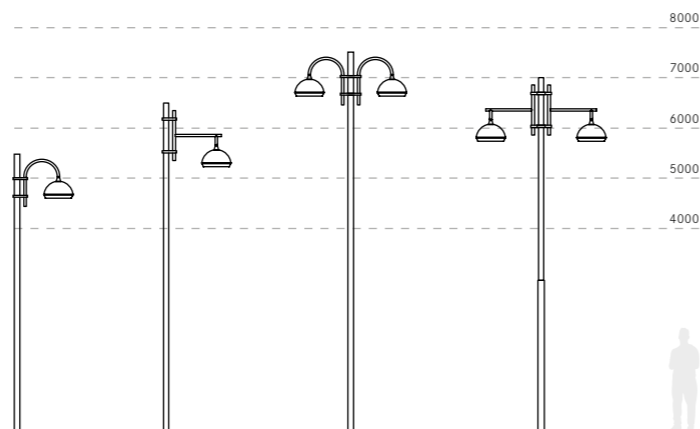
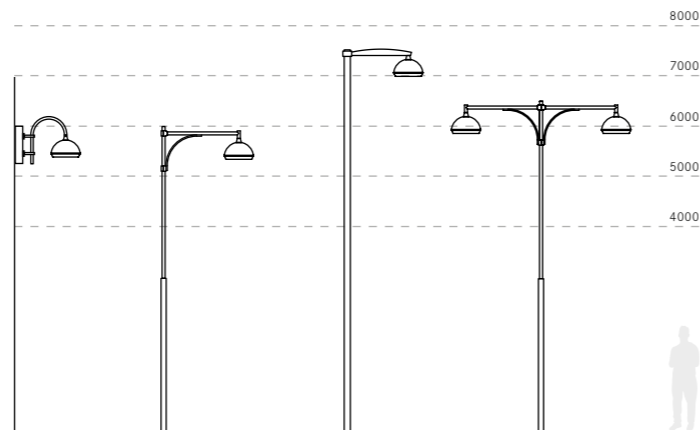
Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

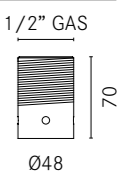
01BK4	C4	0	9	31	C	HM3
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Accessori *Accessories* Zubehör

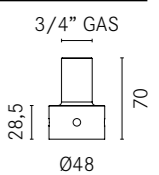
01AK907C0 - Sablé 100

L16 Kit sospensione maschio 1/2" gas
L16 Kit for suspended installation with 1/2" joint
L16 Zubehör für die aufhängung mit 1/2" verbindung



01AK914C0 - Sablé 100

L17 Kit sospensione maschio 3/4" gas
L17 Kit for suspended installation with 3/4" joint
L17 Zubehör für die aufhängung mit 3/4" verbindung

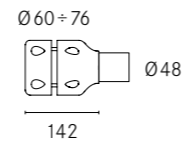


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

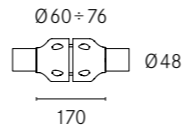
Accessori Accessories Zubehör Big Link L SIDE Brackets and poles

01AK903C0 - Sablé 100

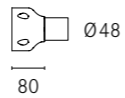
L3 Giunto singolo per palo Ø60-76mm
L3 Simple joint kit for post Ø60-76mm
 L3 Kit Einzel-Mastanschluss Ø60-76mm

**01AK904C0 - Sablé 100**

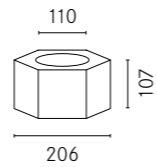
L4 Giunto doppio per palo Ø60-76mm
L4 Double joint kit for post Ø60-76mm
 L4 Kit Doppel-Mastanschluss Ø60-76mm

**01AK906C0 - Sablé 100**

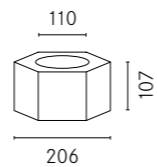
P1 Kit parete Ø48-60mm
P1 Wall lateral fastening kit Ø48-60mm
 P1 Wandkit für Seitenanschluss Ø48-60mm

**01SC904AD0 - Sablé 100**

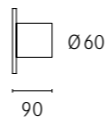
E1 Esagono 1-2 Link (180°) per palo Ø114mm
E1 Hexagon for 1-2 fastenings (180°), post Ø114mm
 E1 Hexagon für 1-2 Befestigungen (180°), Mast Ø114mm

**01SC905AD0 - Sablé 100**

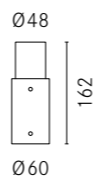
E2 Esagono 2-3 Link (120°) per palo Ø114mm
E2 Hexagon for 2-3 fastenings (120°), post Ø114mm
 E2 Hexagon für 2-3 Befestigungen (120°), Mast Ø114mm

**01AK943C0 - Sablé 100**

L8 Raccordo tubolare Ø60mm per esagono per palo Ø114mm
L8 Tubular connection kit Ø60mm for hexagon for post Ø114mm
 L8 Kit röhrenförmiger Anschluss Ø60mm für Sechseck für Masten Ø114mm

**01AK910C0 - Sablé 100**

L12 Giunto testa palo Ø60mm
L12 Joint for post top Ø60mm
 L12 Mastanschlussstück Ø60mm

**01AK949C0 - Sablé 100**

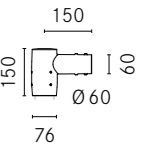
P3 Piastra parete universale
P3 Universal wall plate
 P3 Universal-Wandplatte



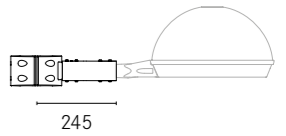
Accessori Accessories Zubehör Big Link

06AK905C0 - Sablé 100

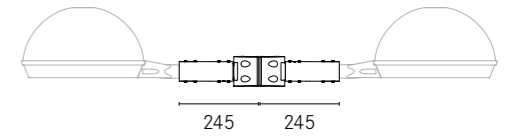
B153 Giunto testa palo Ø60mm
B153 Joint post top Ø60mm
 B153 Druckguss Mastverbindungstück Ø60mm Mast

**06AK906C0 - Sablé 100**

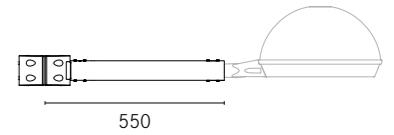
B154 Braccio singolo L 245mm palo Ø102mm
B154 Single arm L 245mm pole Ø102mm
 B154 Einarmig L 245mm Mast Ø102mm

**06AK908C0 - Sablé 100**

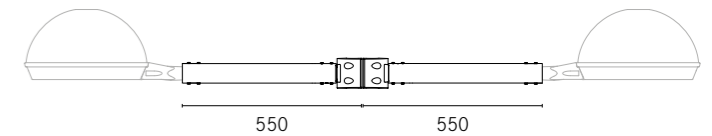
B156 Braccio doppio L 245mm palo Ø102mm
B156 Double arm L 245mm pole Ø102mm
 B156 Doppelarm L 245mm Mast Ø102mm

**06AK907C0 - Sablé 100**

B155 Braccio singolo L 550mm palo Ø102mm
B155 Single arm L 550mm pole Ø102mm
 B155 Einarmig L 550mm Mast Ø102mm

**06AK909C0 - Sablé 100**

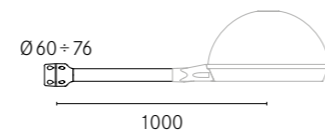
B157 Braccio doppio L 550mm palo Ø102mm
B157 Double arm L 550mm pole Ø102mm
 B157 Doppelarm L 550mm Mast Ø102mm



Accessori Accessories Zubehör

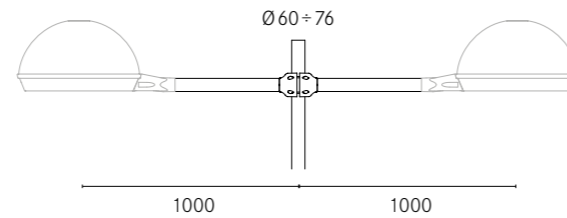
01AK921C0 - Sablé100

B1 Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm
B1 Arm tubular Ø60mm L 1000mm for Ø60-76mm pole
 B1 Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



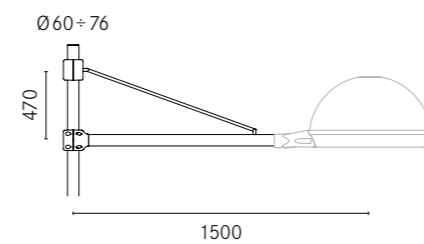
01AK922C0 - Sablé100

B2 Braccio tubolare doppio Ø60mm L 1000mm per palo Ø60-76mm
B2 Double arm tubular Ø60mm L 1000mm for Ø60-76mm pole
 B2 Doppelarm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



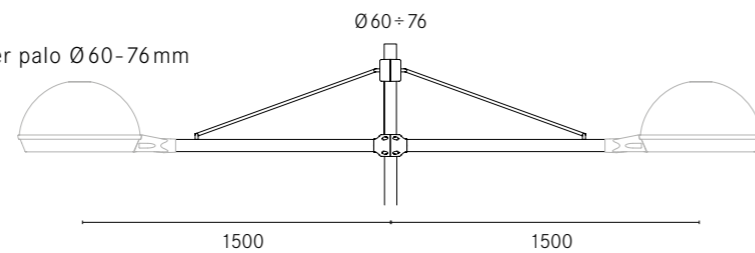
01AK923C0 - Sablé100

B3 Braccio tubolare singolo Ø60mm L 1500mm con tirante per palo Ø60-76mm
B3 Arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole
 B3 Arm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm



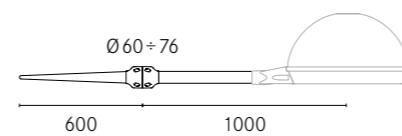
01AK924C0 - Sablé100

B4 Braccio tubolare doppio Ø60mm L 1500mm con tirante per palo Ø60-76mm
B4 Double arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole
 B4 Doppelarm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm



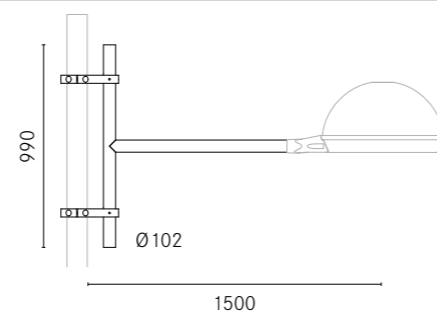
01AK925C0 - Sablé100

B5 Braccio tubolare singolo Ø60mm L 1000mm con puntale per palo Ø60-76mm
B5 Arm tubular Ø60mm L 1000mm with pointed rod for Ø60-76mm pole
 B5 Arm Rohr Ø60mm L 1000mm mit Spitze für Masten Ø60-76mm



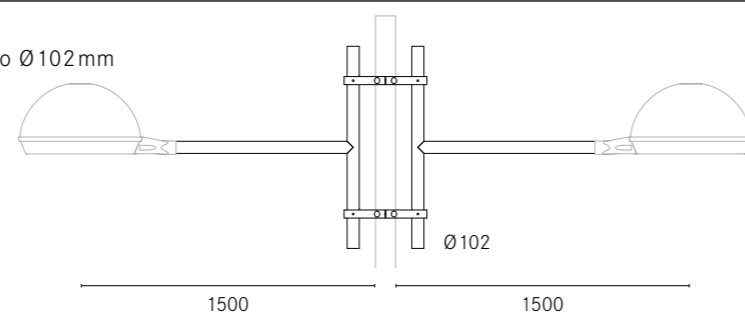
01AK929C0 - Sablé100

B9 Braccio "T" orizzontale singolo Ø60mm L 1500mm per palo Ø102mm
B9 Arm horizontal T-shape Ø60mm L 1500mm for Ø102mm pole
 B9 Arm in waagerechtem "T" Ø60mm L 1500mm für Masten Ø102mm



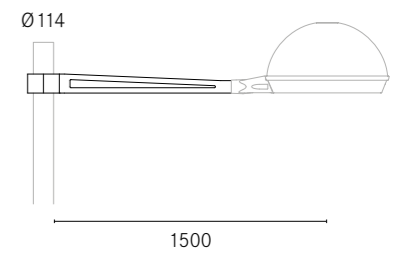
01AK930C0 - Sablé100

B10 Braccio "T" orizzontale doppio Ø60mm L 1500mm per palo Ø102mm
B10 Double arm horizontal T-shape Ø60mm L 1500mm for Ø102mm pole
 B10 Doppelarm in waagerechtem "T" Ø60mm L 1500mm für Masten Ø102mm



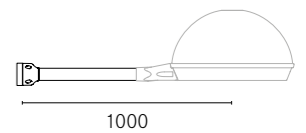
01AK931C0 - Sablé100

B11 Braccio lavorato L 1500mm per palo Ø114mm
B11 Arm machined L 1500mm for Ø114mm pole
 B11 Arm verarbeitet L 1500mm für Masten Ø114mm



01AK951C0 - Sablé100

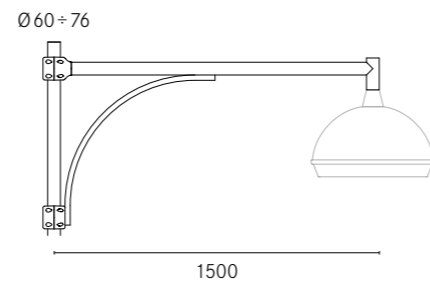
B1-P Braccio parete tubolare Ø60mm L 1000mm
B1-P Tubular arm for wall Ø60mm L 1000mm
 B1-P Wand Arm Rohr Ø60mm L 1000mm



Accessori Accessories Zubehör

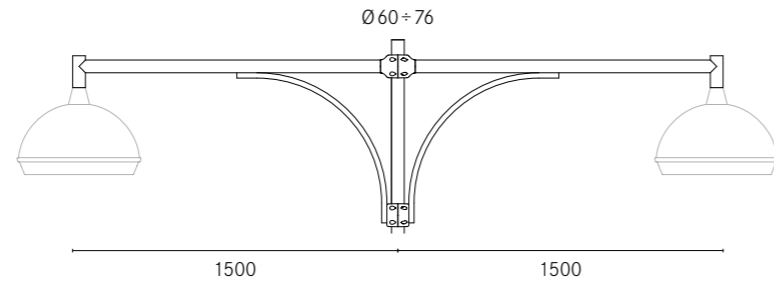
01AK933C0 - Sablé 100

B13 Braccio ad arco singolo Ø60mm L 1500mm per palo Ø60-76mm
B13 Arm arched Ø60mm L 1500mm for Ø60-76mm pole
 B13 Arm bogenförmig Ø60mm L 1500mm für Masten Ø60-76mm



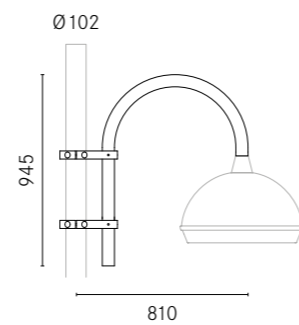
01AK934C0 - Sablé 100

B14 Braccio ad arco doppio Ø60mm L 1500mm per palo Ø60-76mm
B14 Double arm arched Ø60mm L 1500mm for Ø60-76mm pole
 B14 Doppelarm bogenförmig Ø60mm L 1500mm für Masten Ø60-76mm



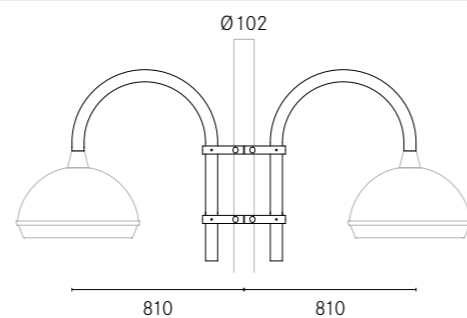
01AK935C0 - Sablé 100

B15 Braccio pastorale singolo Ø60mm L 810mm per palo Ø102mm
B15 Arm pastoral Ø60mm L 810mm for Ø102mm pole
 B15 Arm gebogen Ø60mm L 810mm für Masten Ø102mm



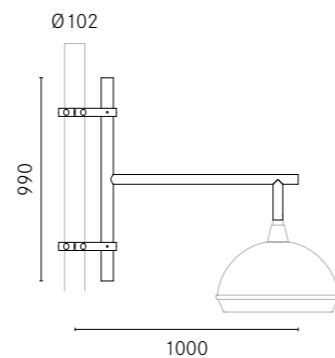
01AK936C0 - Sablé 100

B16 Braccio pastorale doppio Ø60mm L 810mm per palo Ø102mm
B16 Double arm pastoral Ø60mm L 810mm for Ø102mm pole
 B16 Doppelarm gebogen Ø60mm L 810mm für Masten Ø102mm



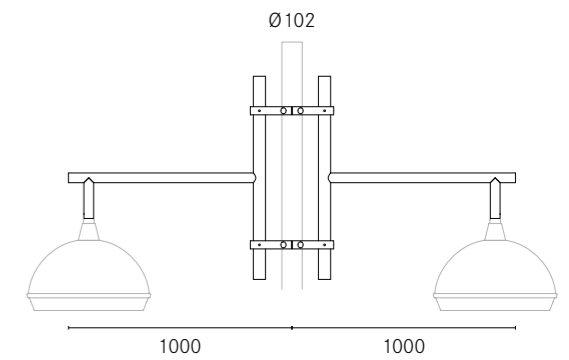
01AK937C0 - Sablé 100

B17 Braccio "T" orizzontale singolo Ø60mm L 1000mm per palo Ø102mm
B17 Arm horizontal T-shape Ø60mm L 1000mm for Ø102mm pole
 B17 Arm in waagerechtem "T" Ø60mm L 1000mm für Masten Ø102mm



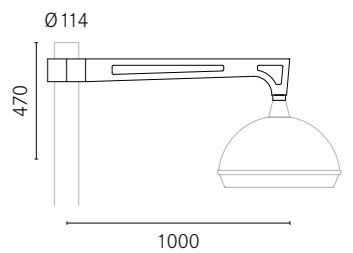
01AK938C0 - Sablé 100

B18 Braccio "T" orizzontale doppio Ø60mm L 1000mm per palo Ø102mm
B18 Double arm horizontal T-shape Ø60mm L 1000mm for Ø102mm pole
 B18 Doppelarm in waagerechtem "T" Ø60mm L 1000mm für Masten Ø102mm



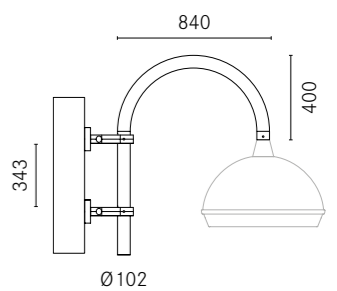
01AK941C0 - Sablé 100

B21 Braccio lavorato L 1000mm per palo Ø114mm
B21 Arm machined L 1000mm for Ø114mm pole
 B21 Arm verarbeitet L 1000mm für Masten Ø114mm



01AK950C0 - Sablé 100

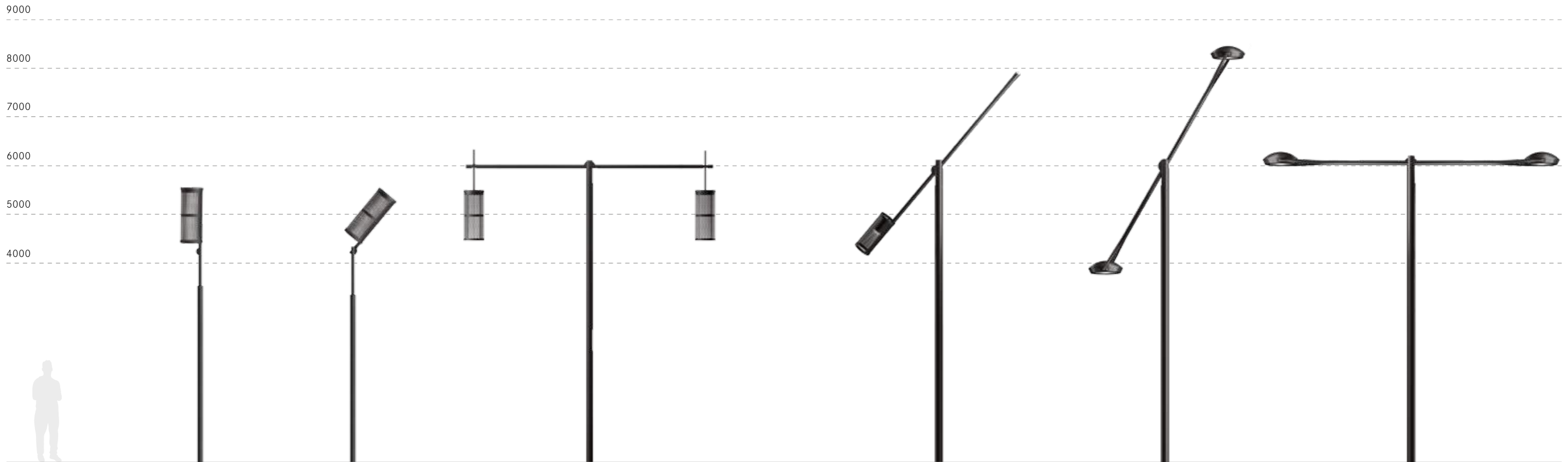
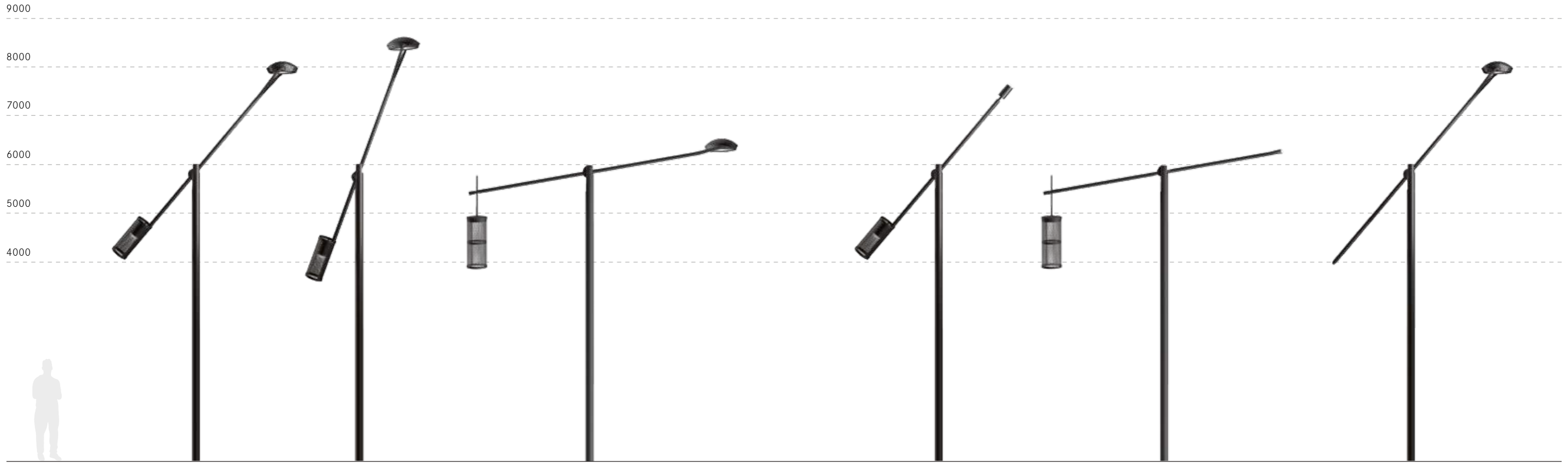
B1-P Braccio parete pastorale Ø60mm L 840mm
B1-P Pastoral arm for wall Ø60mm L 840mm
 B1-P Wand Arm gebogen Ø60mm L 840mm



**Mat
Balancier**

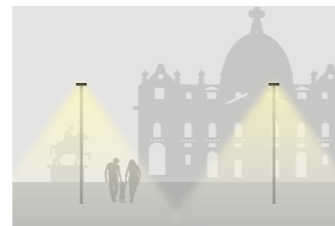
Fivep







230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP65	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO on request Wireless on request PLC on request 1-10V on request DALI on request Pilot line on request Main voltage variation on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

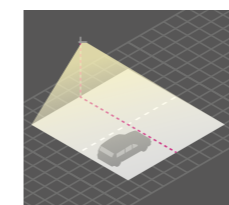


175-15380lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
3000K 4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

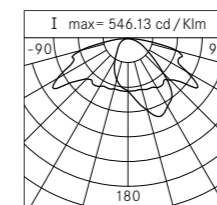
≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>130.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>130.000h @700mA @Ta25°C TM21 L80B10	

Ottiche stradali

Street optics Optik straßenleuchte

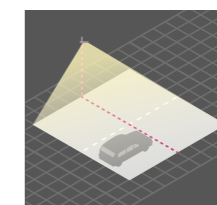


ST (L/H= 1.25)

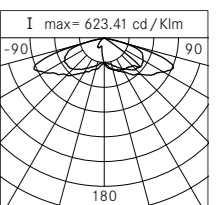


Ottiche asimmetriche stradali

Street asymmetrical optics Optik asymmetrisch straßenleuchte



LA-01 (L/H= 1.25)



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Installazione: terra
Installation: ground
Installation: Boden

Mat Balancier



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Cut-Off
Cut-Off
Cut-Off



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



130.000h
L80B20
L80B10

Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Precablaggio
Pre-wiring
Vorverkabelung



Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit

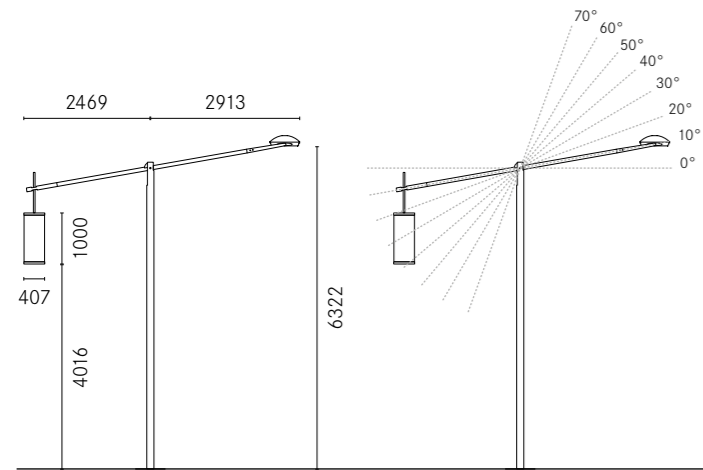


Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung

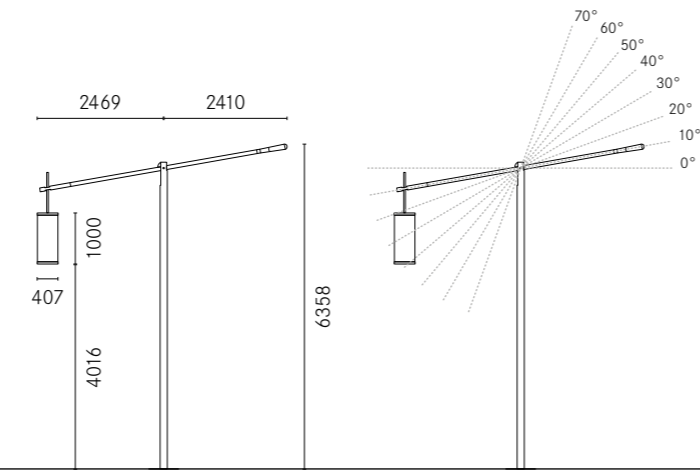


Mat Balancier system

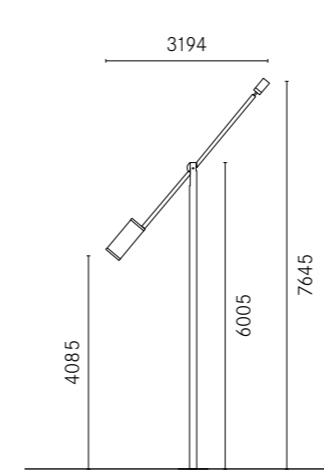
LA-01 + ST-01



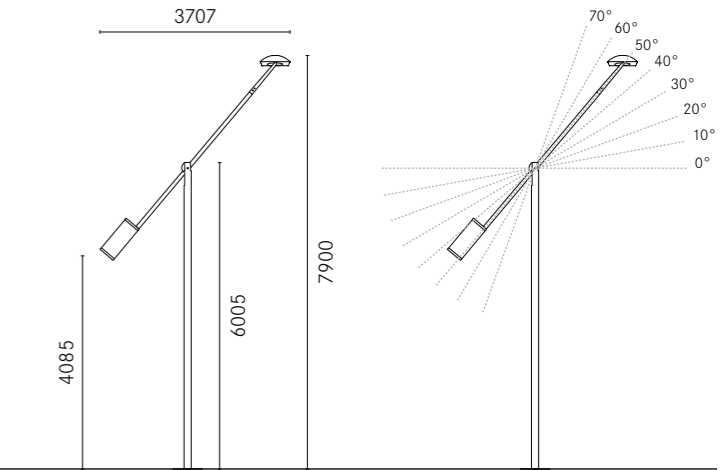
Metal point UP + ST-01



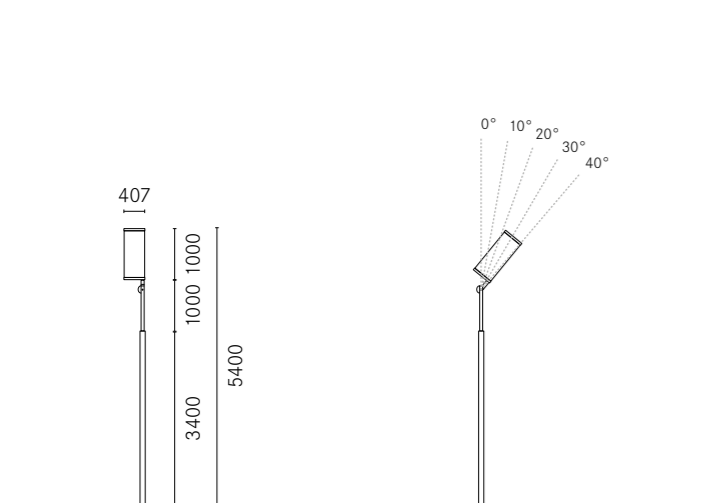
D 50° + D 50°



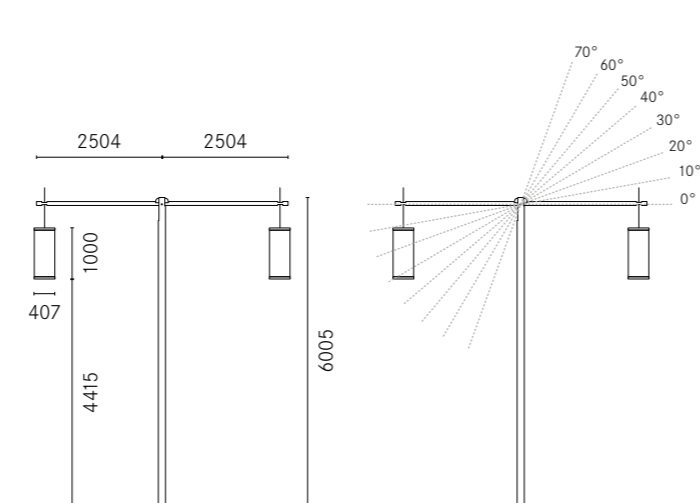
LA-01 + D 50°



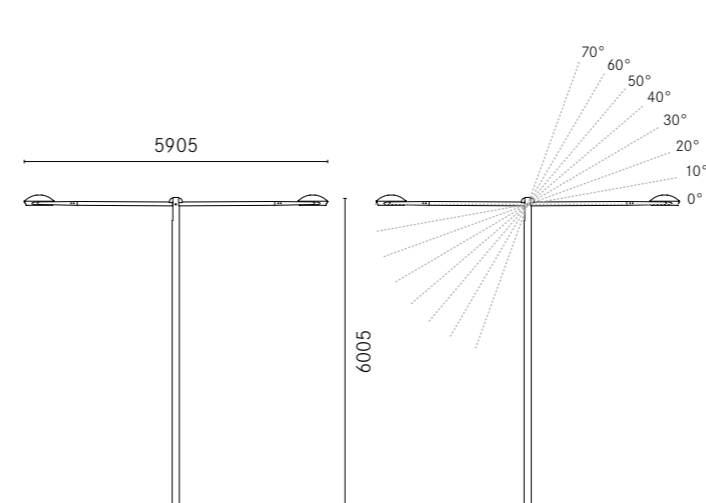
ST-01



ST-01 + ST-01

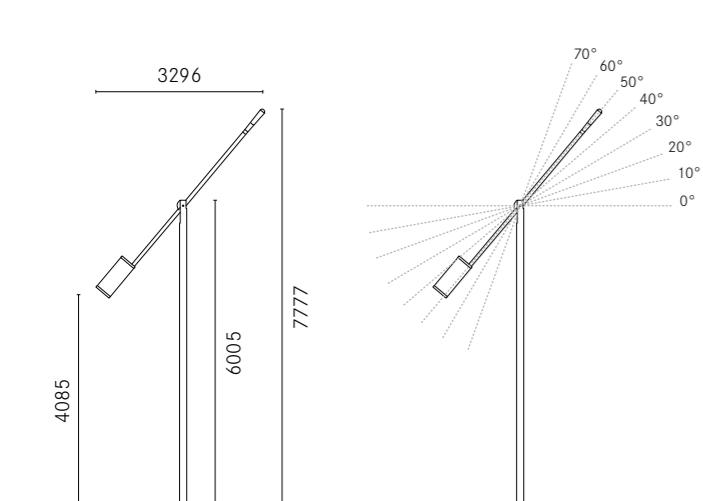


LA-01 + LA-01

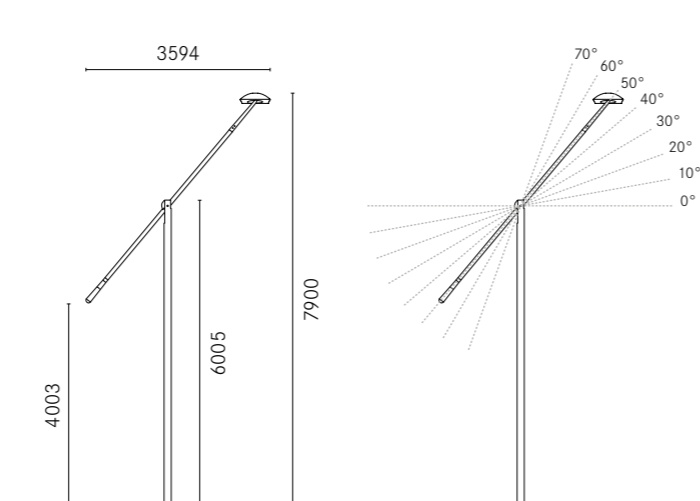


Max weight: 140kg
 Max exposed surface: 1.64m²
 Lateral exposed surface: 1.40m²

Metal point UP + D 50°



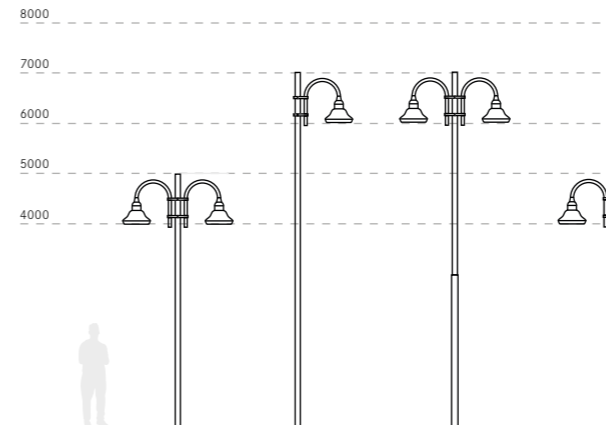
LA-01 + Metal point DOWN



Code	mA 1	mA 2	Source flux 1	Source flux 2	K	Optics 1	Optics 2	Color
01MB1601C	700	700	15380lm	6075lm	4000K	LA-01	ST-01	Sablé100
01MB1602C	500	700	175lm	6075lm	4000K	M-P UP	ST-01	Sablé100
01MB1603C	700		6075lm		4000K	ST-01		Sablé100
01MB1604C	700	700	6075lm	6075lm	4000K	ST-01	ST-01	Sablé100
01MB1605C	500		175lm	6700lm	4000K	M-P UP	D 50°	Sablé100
01MB1606C	700	500	15380lm	175lm	4000K	LA-01	M-P DOWN	Sablé100
01MB1607C			6700lm	6700lm	4000K	D 50°	D 50°	Sablé100
01MB1608C	700		15380lm	6700lm	4000K	LA-01	D 50°	Sablé100
01MB1609C	700	700	15380lm	15380lm	4000K	LA-01	LA-01	Sablé100

Classic

Fivep





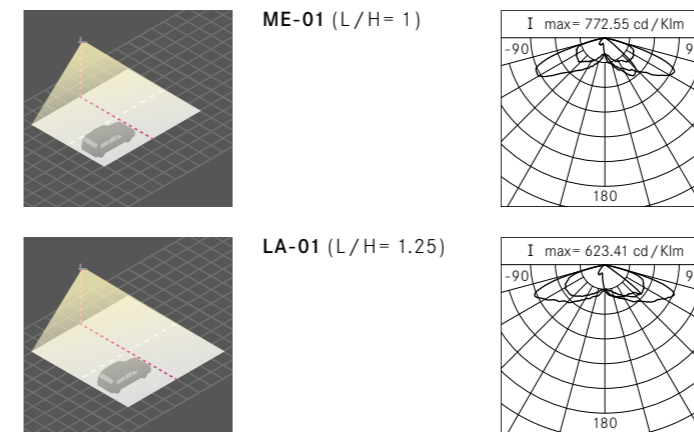
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



4215-11180lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>130.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>130.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

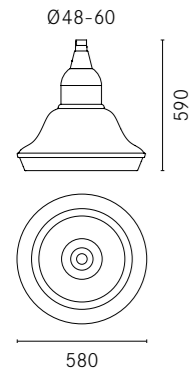
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, Arm, Wand

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage
	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		130.000h L80B20 L80B10 Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV
	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit				

Classic brackets and poles

LED



Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.15m²

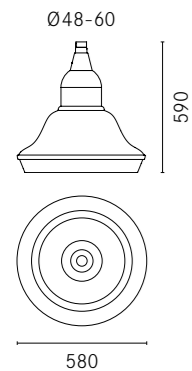
Classic 01CK4			
Led (source flux) Ref. @700mA @4000K			
7845lm 48W C4	11640lm 72W D6	15380lm 95W E8	
Led (source flux) Ref. @700mA @3000K			
7480lm 48W C4	11100lm 72W D6	14665lm 95W E8	
mA			
700	525	350	0
K			
4000 0	3000 9		
Optics			
ME-01 32	LA-01 31		
Colors			
Sablé100 C			
Smart Lighting			
Preset virtual midnight HM3			

Esempio Example Beispiel

01CK4	C4	0	0	32	C	HM3
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Classic brackets and poles

LAMPS



Max weight: 11 kg
Max exposed surface: 0.25m²
Lateral exposed surface: 0.15m²

Classic 01CK2			
Lamps			
ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	ST 250W E40 33200lm PO
MT 70W E27 7000lm LI	MT 100W E40 10000lm NI	MT 150W E40 14500lm OI	MT 250W E40 25800lm PI
MT-PWB 35W G12 3300lm EI		CPO-TW 60W PGZ-12 6800lm II	
MT 70W E27 7000lm LI		ST 70W E27 6800lm LO	
Optics			
Street optics G		Cycle routes optics H	
Colors			
Sablé100 C			

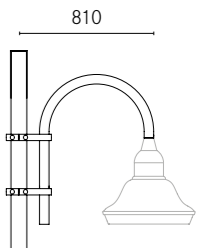
Esempio Example Beispiel

01CK2	LO	G	C
01CK2	EI	H	C

Accessori Accessories Zubehör

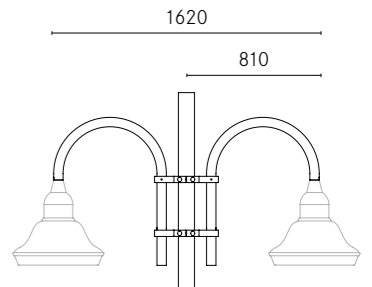
01AK935CO - Sablé100

B15 Braccio pastorale singolo Ø60mm L 810mm per palo Ø102mm
B15 Arm pastoral Ø60mm L 810mm for Ø102mm pole
B15 Arm gebogen Ø60mm L 810mm für Masten Ø102mm



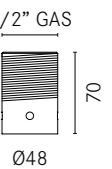
01AK936CO - Sablé100

B16 Braccio pastorale doppio Ø60mm L 810mm per palo Ø102mm
B16 Double arm pastoral Ø60mm L 810mm for Ø102mm pole
B16 Doppelarm gebogen Ø60mm L 810mm für Masten Ø102mm



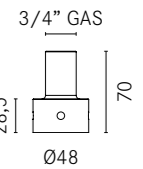
01AK907CO - Sablé100

L16 Kit sospensione maschio 1/2" gas
L16 Kit for suspended installation with 1/2" joint
L16 Zubehör für die aufhängung mit 1/2" verbindung



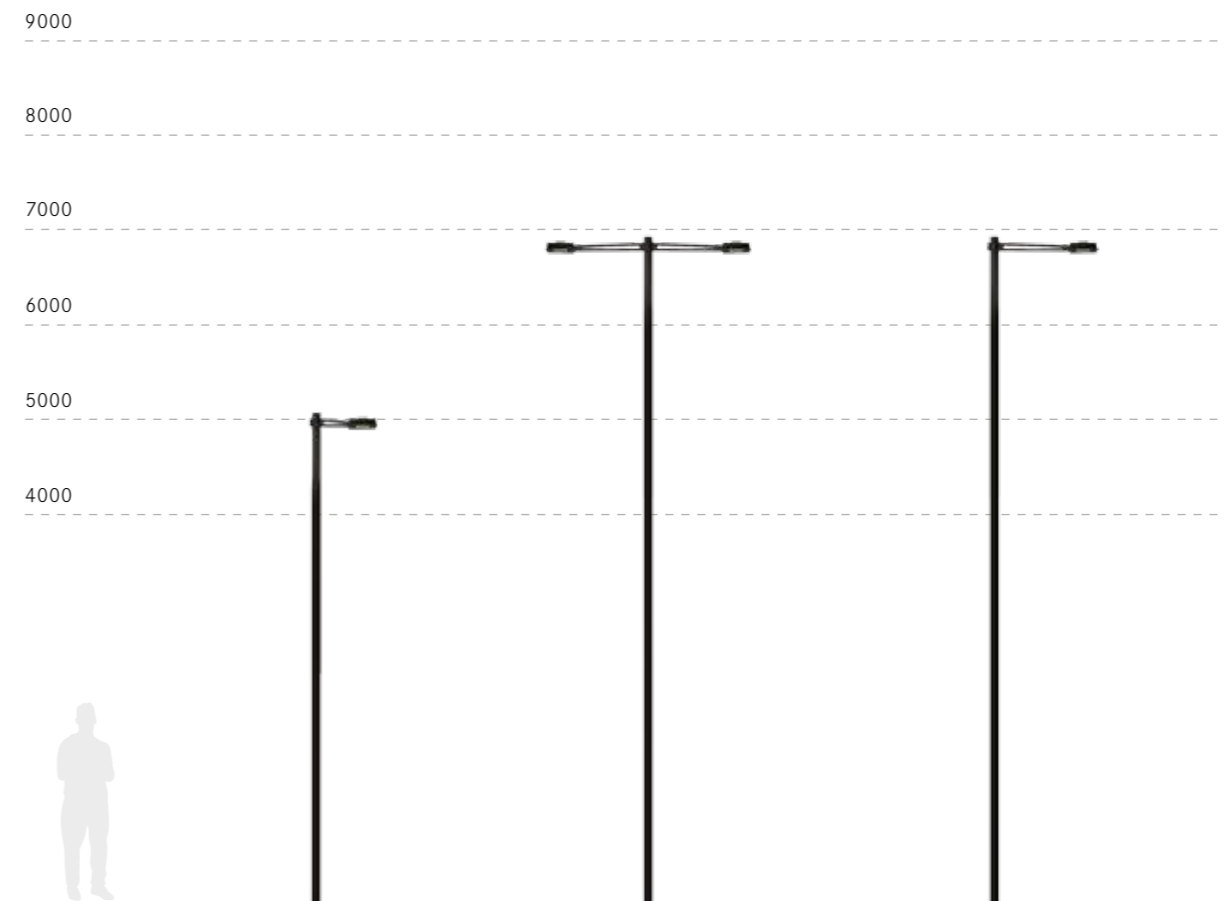
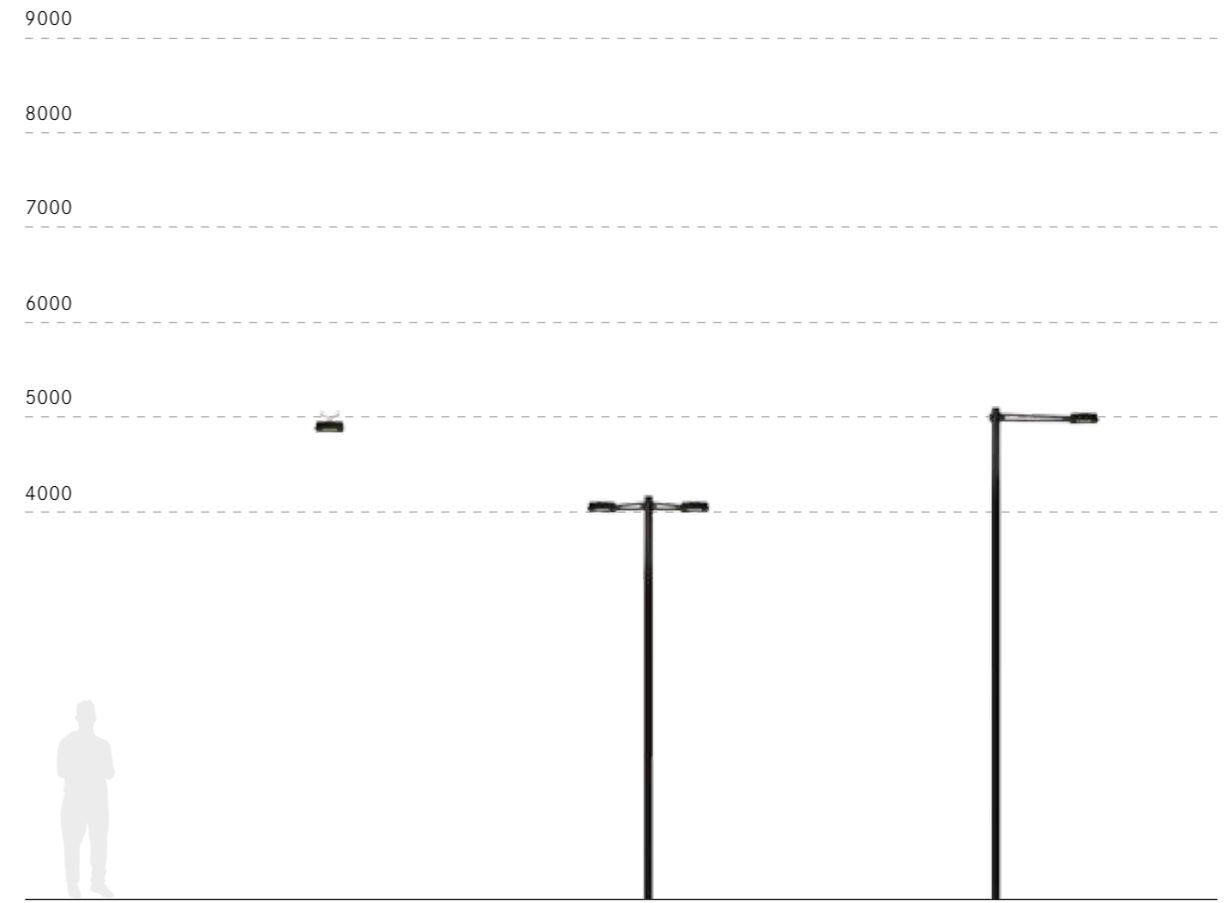
01AK914CO - Sablé100

L17 Kit sospensione maschio 3/4" gas
L17 Kit for suspended installation with 3/4" joint
L17 Zubehör für die aufhängung mit 3/4" verbindung



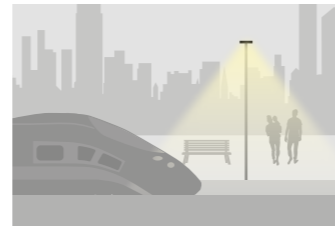
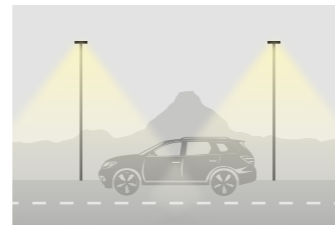
Flyer

Fivep





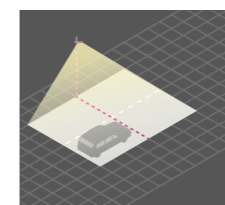
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK06	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-10°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé 100 Noir	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



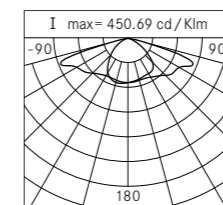
3570-10120 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
>160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
>160.000h @700mA @Ta25°C TM21 L80B10	

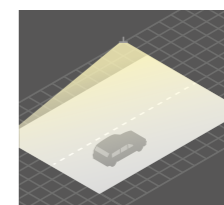
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



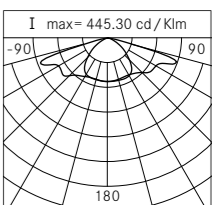
A (L/H = 1)



Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



S



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		CRI ≥ 80 SMCD = 4 su richiesta <i>CRI ≥ 80 SMCD = 4 on request</i> CRI ≥ 80 SMCD = 4 auf Anfrage		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		160.000h L80B20 L80B10		Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV		CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Separabilità delle componenti <i>Separable components</i> Trennbare Komponenten				

Installazione: palo, braccio, parete, tesata

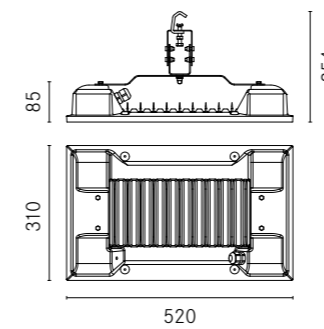
Installation: pole, arm, wall, string

Installation: Mast, Arm, Wand, Drahtseil

230V 50Hz CL II IP66 IK06



Flyer brackets and poles

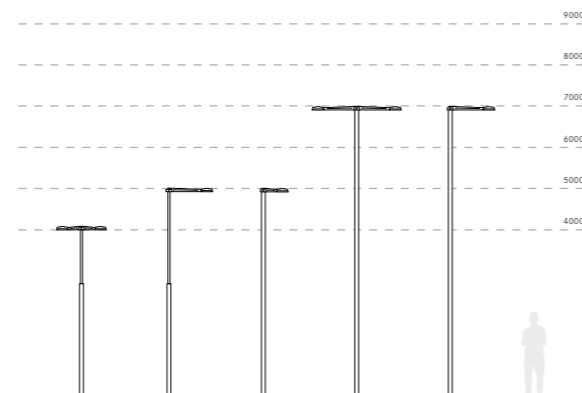


Max weight: 7.5kg
 Max exposed surface: 0.1m²
 Lateral exposed surface: 0.024m²

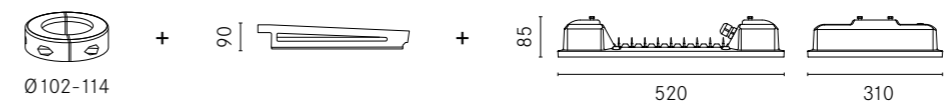
Flyer	
01FL2	
Led (source flux) Ref. @700mA @4000K	
6770lm 40W	10120lm 60W
C0	D0
Led (source flux) Ref. @700mA @3000K	
6455lm 40W	9650lm 60W
C0	D0
mA	
700 525 350	
0	
K	
4000 3000	
0	9
Optics	
S A	
5	7
Colors	
Sablé100	
C	
Smart Lighting	
Preset virtual midnight	
HM3	

Esempio *Example* Beispiel

01FL2	C0	0	9	5	C	HM3
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Configurazione *Configuration* Konfiguration



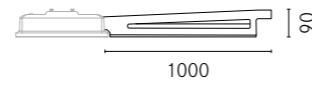
Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

Flyer Brackets and poles

Accessori Accessories Zubehör

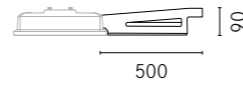
01FL995C0 - Sablé100

B33 Braccio L 1000 mm
B33 Bracket L 1000mm
B33 Ausleger L 1000mm



01FL996C0 - Sablé100

B32 Braccio L 500 mm
B32 Bracket L 500mm
B32 Ausleger L 500mm



01FL997C0 - Sablé100

A2 Anello per 1-2 bracci per palo Ø102-114 mm
A2 Ring for 1-2 arms for poles Ø102-114 mm
A2 Verbindung für 1-2 ausleger auf masten Ø102-114 mm



01FL998C0 - Sablé100

A1 Anello per 1-2 bracci per palo Ø60-76 mm
A1 Rings for 1-2 arms for poles Ø60-76 mm
A1 Verbindung für 1-2 ausleger auf masten Ø60-76 mm



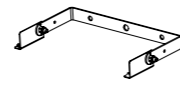
01FL999C0 - Sablé100

A2 Anello per 4 bracci per palo Ø102-114 mm
A2 Ring for 4 arms for poles Ø102-114 mm
A2 Verbindung für 4 ausleger auf masten Ø102-114 mm



01FL993C0 - Sablé100

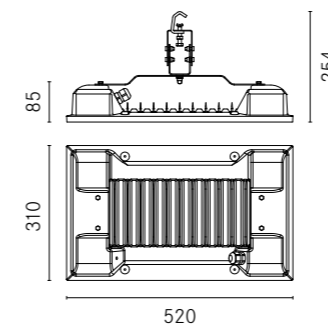
S1 Staffa per fissaggio sottogronda
S1 Bracket for wall fastening
S1 Wandbefestigungsbügel



230V 50Hz CL II IP66 IK06



Flyer string suspension

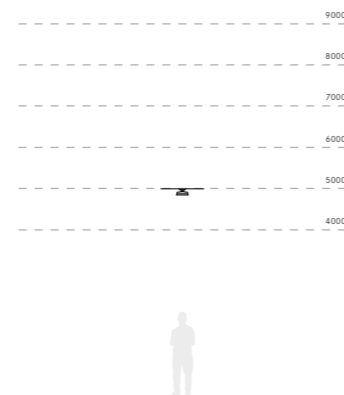


Max weight: 7.5kg
 Max exposed surface: 0.1 m²
 Lateral exposed surface: 0.024 m²

Flyer	
01FL2	
Led (source flux) Ref. @700mA @4000K	
6770lm 40W	10120lm 60W
C0	D0
Led (source flux) Ref. @700mA @3000K	
6455lm 40W	9650lm 60W
C0	D0
mA	
700 525 350	
0	
K	
4000 3000	
0	9
Optics	
S	
5	
Colors	
Sablé100	
C	
Smart Lighting	
Preset virtual midnight	
HM3	

Esempio *Example* Beispiel

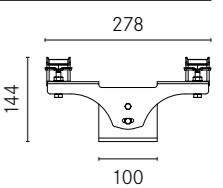
01FL2	C0	0	9	5	C	HM3
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Accessori *Accessories* Zubehör

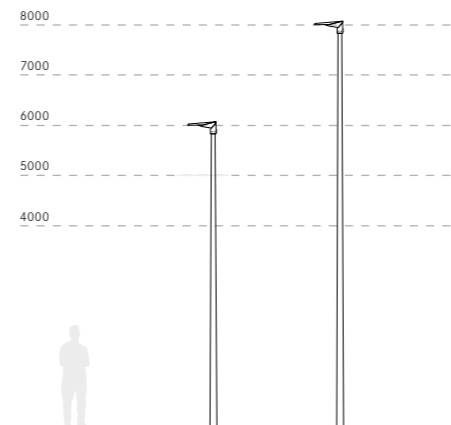
01FL991C0

T1Kit sospensione su fune tesata Ø6-12mm
 T1 Suspension kit for string Ø6-12mm
 T1 Aufhängungskit auf Drahtseil Ø6-12mm



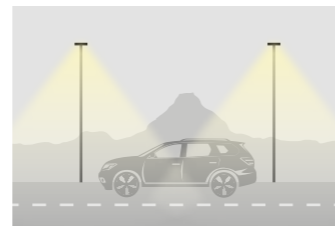
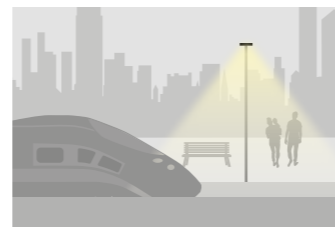
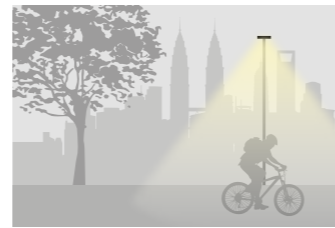
Kairos

Fivep





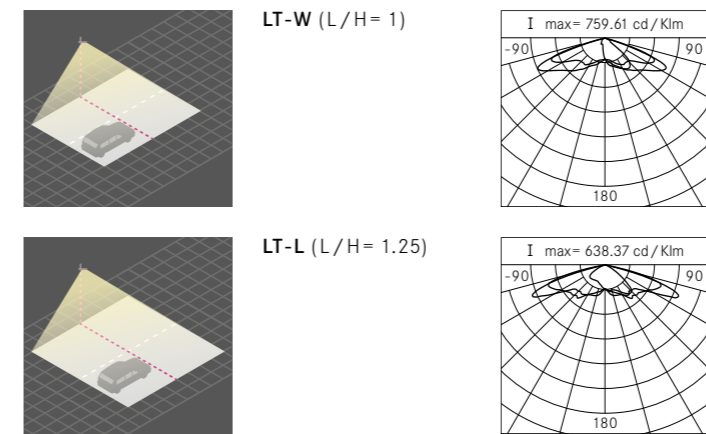
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



1945-11245lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe













Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Installazione: palo, braccio, parete

Installation: pole, arm, wall

Installation: Mast, Arm, Wand

 Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"	 Cut-Off <i>Cut-Off</i> Cut-Off	 Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
 160.000h L80B20 L80B10 Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln	 Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C	 Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
 Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV	 CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)	 Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt
 Dimensioni compatte <i>Dimensions compact</i> Kompakten Abmessungen	 Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit	 Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit

Average energy saving

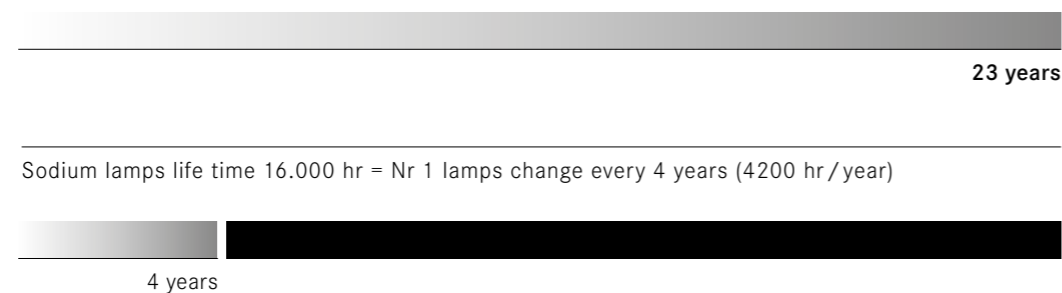
56%

	KAIROS	Lighting fixtures with SODIUM LAMPS
65% Energy Saving	25W LED	70W LAMPS
	29W Total Power	83W Total Power
57% Energy Saving	50W LED	100W LAMPS
	57W Total Power	115W Total Power
57% Energy Saving	75W LED	150W LAMPS
	83W Total Power	176W Total Power
CRI	>70	>25
Life Time	>160.000 hr	16.000 hr

+ additional 20% of energy saving with standard dimming system

Maintenance savings

Average life time LED > 160.000 hr > 20 years



Installazione

Installazione su pali o bracci con Ø76 mm. Forniti sistemi di riduzione per pali con Ø46-60 mm. Dispositivo di ancoraggio al palo regolabile senza necessità di aprire l'armatura. Inclinazione in configurazione verticale (lato palo): 0° +20°, con passo 5°; inclinazione in configurazione orizzontale (braccio): 0° -20°, con passo 5°. (Kairos ha sezionatore solo su richiesta).



Installation

Installation on Ø76 mm poles or arms. Adapters for Ø46-60 mm poles provided. System for anchoring to poles which can be adjusted without opening the casing. Inclination in vertical configuration (pole side): 0° +20°, in 5° steps; inclination in horizontal configuration (arm): 0° -20°, in 5° steps. (Kairos is supplied with a disconnecter on request only).



Installation

Installation an Masten oder Auslegern mit Ø76 mm. Verringerungssysteme für Maste mit Ø46-60 mm mitgeliefert. Vorrichtung für die Verankerung am Mast einstellbar, ohne dass die Armierung geöffnet werden muss. Neigung in vertikaler Konfiguration (auf der Mastseite): 0° +20°, mit 5°-Step; Neigung in horizontaler Konfiguration (Ausleger): 0° -20°, mit 5°-Step. (Kairos ist nur auf Anfrage mit einem Trennschalter ausgestattet).



Manutenzione

Sostituibilità semplice e veloce del gruppo ottico e del gruppo di alimentazione. Il gruppo di alimentazione è accessibile tramite apertura delle due viti poste sulla parte superiore del prodotto ed è aggiornabile sostituendo la piastra portacomponenti. Il gruppo ottico si sostituisce agendo sulle viti poste sulla parte superiore del prodotto e svincolando il coperchio sul quale sono fissati i moduli Led.

Maintenance

Simple and rapid substitution of the optical unit and the power unit. The power unit can be accessed by removing the two screws on the upper part of the product and can be updated by substituting the wiring compartment. The optical unit can be substituted by removing the screws on the top of the item and detaching the cover on which the LED modules are fitted.

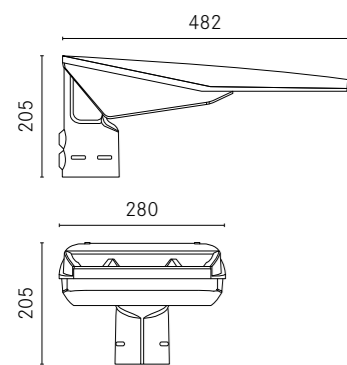
Wartung

Einfache und schnelle Auswechselbarkeit der Optik- und Stromversorgungseinheit. Die Stromversorgungseinheit ist durch Lösen der zwei Schrauben am oberen Teil des Produkts zugänglich und ihre Verkabelungsplatte kann ausgewechselt werden. Die Optikeinheit kann ausgewechselt werden, indem die Schrauben am oberen Teil des Produkts gelöst werden und der Deckel, an dem die LED-Module befestigt sind, befreit wird.

Kairos Brackets and poles

220
240V 50
60Hz CL II IP66 IK08

Kairos brackets and poles



Max weight: 6.5 kg
Max exposed surface: 0.13 m²
Lateral exposed surface: 0.036 m²

Kairos 01KR1				
Led (source flux) Ref. @ 700mA @ 4000K				
3860lm 25W	5110lm 33W	7645lm 49.5W	11245lm 74W	
B2	B6	C4	D6	
Led (source flux) Ref. @ 700mA @ 3000K				
3485lm 25W	4610lm 33W	6900lm 49.5W	10145lm 74W	
B2	B6	C4	D6	
mA				
700	525	350		
0				
K				
4000	3000			
0	9			
Optics				
LT-W	LT-L			
1	6			
Colors				
RAL9006				
A				
Smart Lighting				
Preset virtual midnight				
HM3				

Esempio Example Beispiel

01KR1 B2 0 0 1 A HM3

Accessori Accessories Zubehör

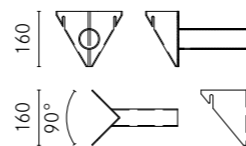
06GN902C0

Piastra a muro 90°
90° Wall plate
90° Wandplatte



06GN901C0

Piastra angolare 90°
90° Corner plate
90° Eckplatte

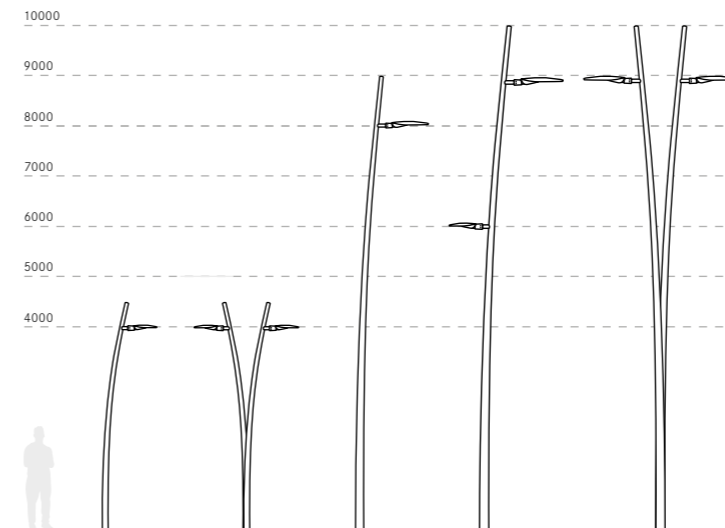
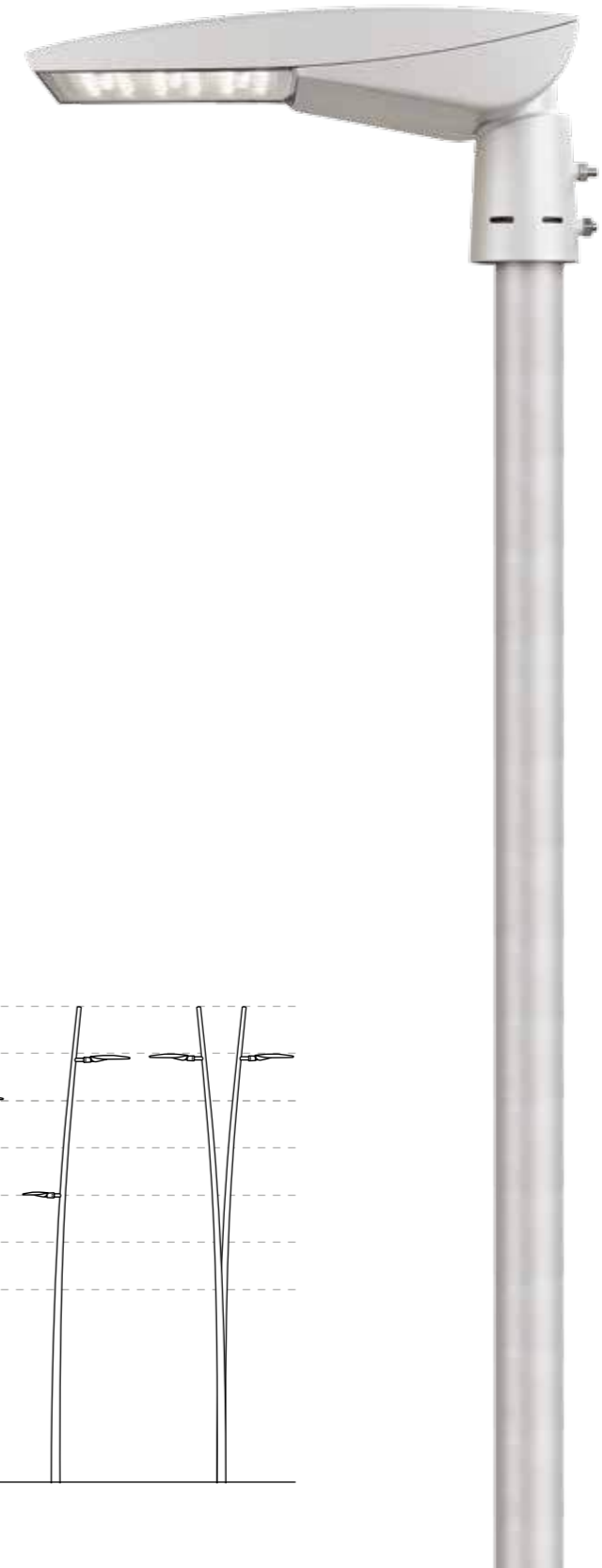


Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316



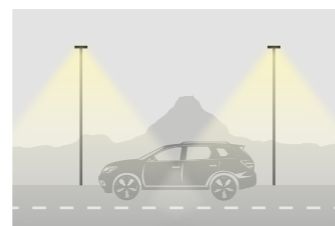
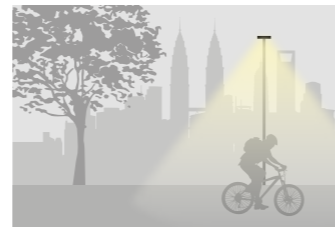
Kai

Fivep





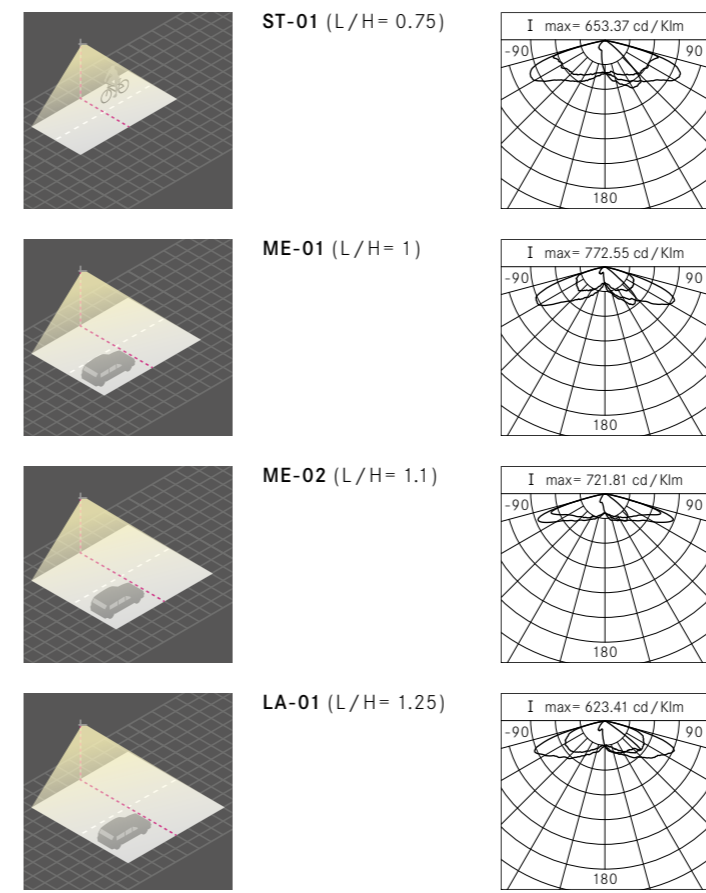
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 HM4 DALI	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
Main voltage variation CLO 1-10V on request with HM4 Wireless on request PLC on request Pilot line on request Motion detectors/ brightness on request	



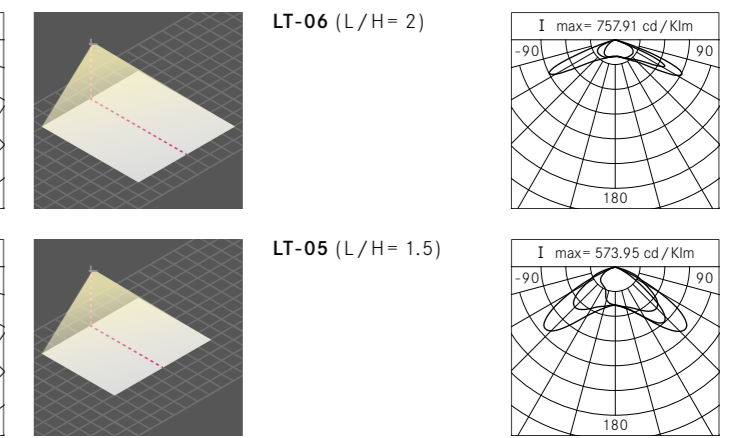
2135-23155 lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

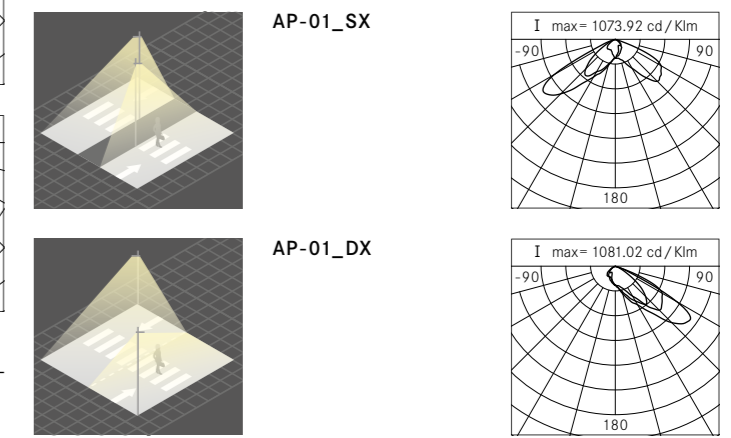
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



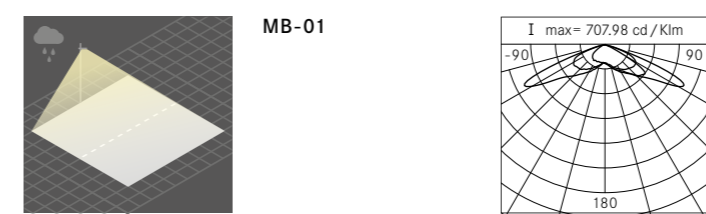
Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



Ottiche per attraversamenti pedonali
Pedestrian crossing optics Optik für fußgängerüberwege



Ottiche per manto bagnato
Wet surface optics Optik asymmetrisch straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Installazione: palo, braccio, parete
Installation: pole, arm, wall
Installation: Mast, Arm, Wand

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Ottica attraversamenti pedonali <i>Optics for pedestrian crossings</i> Optik für Fußgängerüberwege		Ottica manto bagnato <i>Optics for wet surfaces</i> Optik für nasse Straßenbeläge
	Cut - Off <i>Cut - Off</i> Cut - Off		Luce calda 2200K <i>Warm Light 2200K</i> Warme Licht 2200K		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln		Ta -30° C +50° C <i>Ta -30° C +50° C</i> Ta -30° C +50° C
	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV		CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)
	Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Dimensioni compatte <i>Dimensions compact</i> Kompakten Abmessungen		Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Riduzione accumulo sporco <i>Reduction in the buildup of dirt</i> Reduzierte Schmutzansammlung		



Average energy saving

56%

	KAI	Lighting fixtures with SODIUM LAMPS
65% Energy Saving	25W LED 29W Total Power	70W LAMPS 83W Total Power
57% Energy Saving	50W LED 57W Total Power	100W LAMPS 115W Total Power
57% Energy Saving	75W LED 83W Total Power	150W LAMPS 176W Total Power
CRI	>70	>25
Life Time	>160.000 hr	16.000 hr

+ additional 20% of energy saving with standard dimming system

Maintenance savings

Average life time LED > 160.000 hr > 20 years

23 years

Sodium lamps life time 16.000 hr = Nr 1 lamps change every 4 years (4200 hr / year)

4 years

Installazione

Apertura del vano alimentazione tool-less. Installazione su pali o bracci con Ø76mm. Forniti sistemi di riduzione per pali con Ø46-60mm. Dispositivo di ancoraggio al palo regolabile senza necessità di aprire l'armatura. Inclinazione in configurazione verticale (lato palo): 0° +20°, con passo 5°; inclinazione in configurazione orizzontale (braccio): 0° -20°, con passo 5°.

Installation

Tool-less opening of the power supply housing. Mounting on Ø76mm poles or arms. Adapters for Ø46-60mm poles provided. System for anchoring to poles which can be adjusted without opening the casing. Inclination in vertical configuration (pole side): 0° +20°, in 5° steps; inclination in horizontal configuration (arm): 0° -20°, in 5° steps.

Installation

Werkzeuglose Öffnung des Stromversorgungsfaches. Installation an Masten oder Auslegern mit Ø76mm. Verringerungssysteme für Maste mit Ø46-60mm mitgeliefert. Vorrichtung für die Verankerung am Mast einstellbar, ohne dass die Armierung geöffnet werden muss. Neigung in vertikaler Konfiguration (auf der Mastseite): 0° +20°, mit 5°-Step; Neigung in horizontaler Konfiguration (Ausleger): 0° -20°, mit 5°-Step.



Manutenzione

Sostituibilità semplice e veloce del gruppo ottico e del gruppo di alimentazione. Agendo sulle due clips di chiusura del coperchio, senza utilizzo di utensili, questo si può ribaltare lasciando libero accesso al gruppo di alimentazione e al gruppo ottico. All'apertura del vano componenti avviene una disconnessione elettrica automatica grazie all'intervento di un sezionatore che interrompe il circuito elettrico d'alimentazione e seziona i Led. La piastra porta-componenti del gruppo di alimentazione è facilmente sostituibile con lo sblocco dei fermi di aggancio alla struttura dell'armatura e lo scollegamento dei connettori elettrici rapidi resi irreversibili per forma. Il gruppo ottico può essere rimosso rapidamente senza utilizzo di utensili: dopo l'apertura del prodotto è sufficiente svincolare il coperchio sul quale sono fissati i moduli Led.

Maintenance

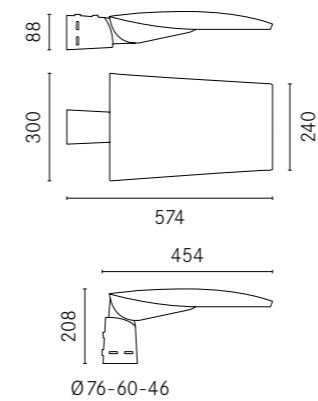
Simple and rapid substitution of the optical unit and the power unit. By unfastening the two closure clips on the cover, which can be done without the use of tools, the cover can be opened, providing access to the power and the optical unit. On opening the component compartment the electricity supply is automatically interrupted via a disconnecter which interrupts the power circuit and isolates the LEDs. The wiring compartment for the power unit can be easily substituted by unfastening the holding clips and disconnecting the rapid power connectors, the shape of which renders it impossible to confuse them. The optical unit can be quickly removed without the use of tools: once the item has been opened, it is sufficient to detach the cover to which the LED modules are attached.

Wartung

Einfache und schnelle Auswechselbarkeit der Optik- und Stromversorgungseinheit. Durch Betätigung der beiden Verschluss-Clips des Deckels, kann dieser ohne Verwendung von Werkzeugen weggeklappt werden, um freien Zugang zur Stromversorgungs- und Optikeinheit zu ermöglichen. Wenn das Komponentenfach geöffnet wird, erfolgt eine automatische elektrische Trennung dank des Eingriffes eines Trennschalters, der den elektrischen Versorgungskreis unterbricht und die LEDs trennt. Die Verkabelungsplatte der Stromversorgungseinheit kann leicht ausgetauscht werden, indem die Feststeller an der Armierungsstruktur entriegelt werden und die elektrischen Schnellverbinder, die aufgrund ihrer Form irreversibel sind, getrennt werden. Die Optikeinheit kann schnell ohne Verwendung von Werkzeugen entfernt werden: Nach der Öffnung des Produkts ist lediglich der Deckel, an dem die Module befestigt sind, zu befreien.

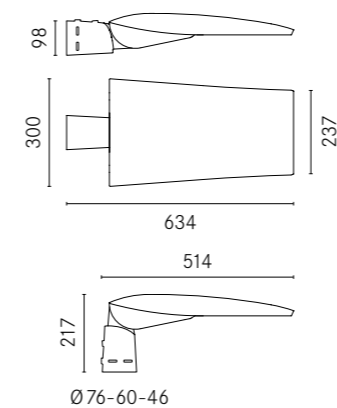
220
240V 50
60Hz CL II IP66 IK08

Kai brackets and poles small



Max weight: 6.5kg
Max exposed surface: 0.13m²
Lateral exposed surface: 0.036m²

Kai brackets and poles small x



Max weight: 7.5kg
Max exposed surface: 0.14m²
Lateral exposed surface: 0.042m²

Kai S 01KI1

Led (source flux) Ref. @700mA @4000K

4035lm 24W B2	5340lm 32W B6	7960lm 48W C4	11810lm 72W D6
-------------------------	-------------------------	-------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

3845lm 24W B2	5095lm 32W B6	7590lm 48W C4	11260lm 72W D6
-------------------------	-------------------------	-------------------------	--------------------------

mA: HM3

700	525	350	700	525	350
0	0	5	0	5	3

K

4000 0	3000 9	2200* 1	*Only 48W and 72W Optics ME-01 / LA-01 / LT-6		
------------------	------------------	-------------------	---	--	--

Optics

ST-01 30	ME-01 32	ME-02 33	LA-01 31	LT-06 37	LT-05 38	MB-01 40
--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------

Colors

RAL9006 A	Sablé100 C
---------------------	----------------------

Smart Lighting

Preset virtual midnight HM3	Custom programmable virtual midnight HM4
---------------------------------------	--

Kai SX 01KI3

Led (source flux) Ref. @700mA @4000K

11810lm 72W D6	15410lm 95W E8
--------------------------	--------------------------

Led (source flux) Ref. @700mA @3000K

11260lm 72W D6	14695lm 95W E8
--------------------------	--------------------------

mA: HM3

700	525	350	700	525	350
0	0	5	0	5	3

K

4000 0	3000 9
------------------	------------------

Optics

ST-01 30	ME-01 32	ME-02 33	LA-01 31	LT-06 37	LT-05 38
--------------------	--------------------	--------------------	--------------------	--------------------	--------------------

AP-DX 36	AP-SX 34	MB-01 40
--------------------	--------------------	--------------------

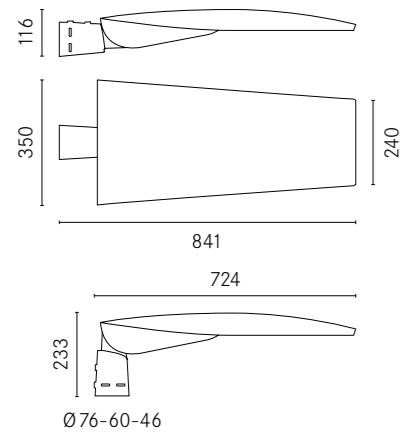
Colors

RAL9006 A	Sablé100 C
---------------------	----------------------

Smart Lighting

Preset virtual midnight HM3	Custom programmable virtual midnight HM4
---------------------------------------	--

Kai brackets and poles medium



Max weight: 11 kg
 Max exposed surface: 0.24 m²
 Lateral exposed surface: 0.059 m²

Kai M 01K12					
Led (source flux) Ref. @700mA @4000K					
15410lm 95W	19400lm 119.5W	23155lm 143W			
E8	G0	H2			
Led (source flux) Ref. @700mA @3000K					
14695lm 95W	18500lm 119.5W	22080lm 143W			
E8	G0	H2			
mA: HM3		HM4			
700	525	350	700	525	350
0	0	5	3		
K					
4000	3000				
0	9				
Optics					
ST-01	ME-01	ME-02	LA-01		
30	32	33	31		
LT-06	MB-01				
37	40				
Colors					
RAL9006	Sablé100				
A	C				
Smart Lighting					
Preset virtual midnight		Custom programmable virtual midnight			
HM3		HM4			

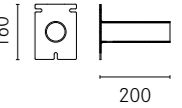
Esempio Example Beispiel

01K12	E8	0	0	32	A	HM4
--------------	-----------	----------	----------	-----------	----------	------------

Accessori Accessories Zubehör

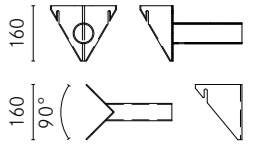
06GN902C0

Piastra a muro 90°
 90° Wall plate
 90° Wandplatte



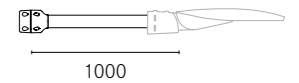
06GN901C0

Piastra angolare 90°
 90° Corner plate
 90° Eckplatte



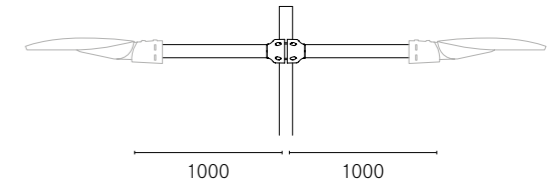
01AK921C0 - Sablé100

B1 Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm
 B1 Arm tubular Ø60mm L 1000mm for Ø60-76mm pole
 B1 Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



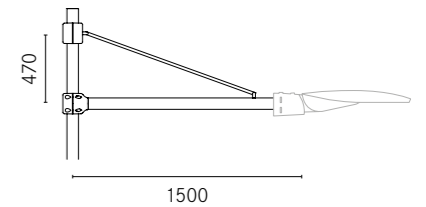
01AK922C0 - Sablé100

B2 Braccio tubolare doppio Ø60mm L 1000mm per palo Ø60-76mm
 B2 Double arm tubular Ø60mm L 1000mm for Ø60-76mm pole
 B2 Doppelarm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



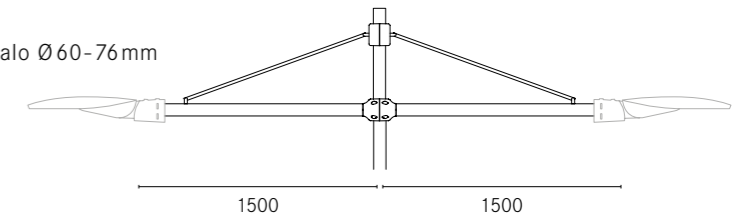
01AK923C0 - Sablé100

B3 Braccio tubolare singolo Ø60mm L 1500mm con tirante per palo Ø60-76mm
 B3 Arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole
 B3 Arm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm



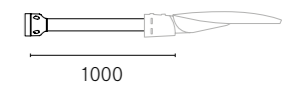
01AK924C0 - Sablé100

B4 Braccio tubolare doppio Ø60mm L 1500mm con tirante per palo Ø60-76mm
 B4 Double arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole
 B4 Doppelarm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm



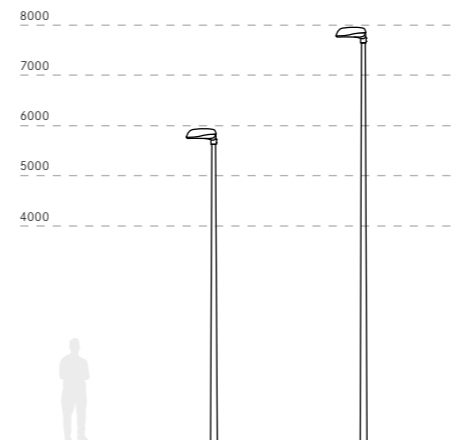
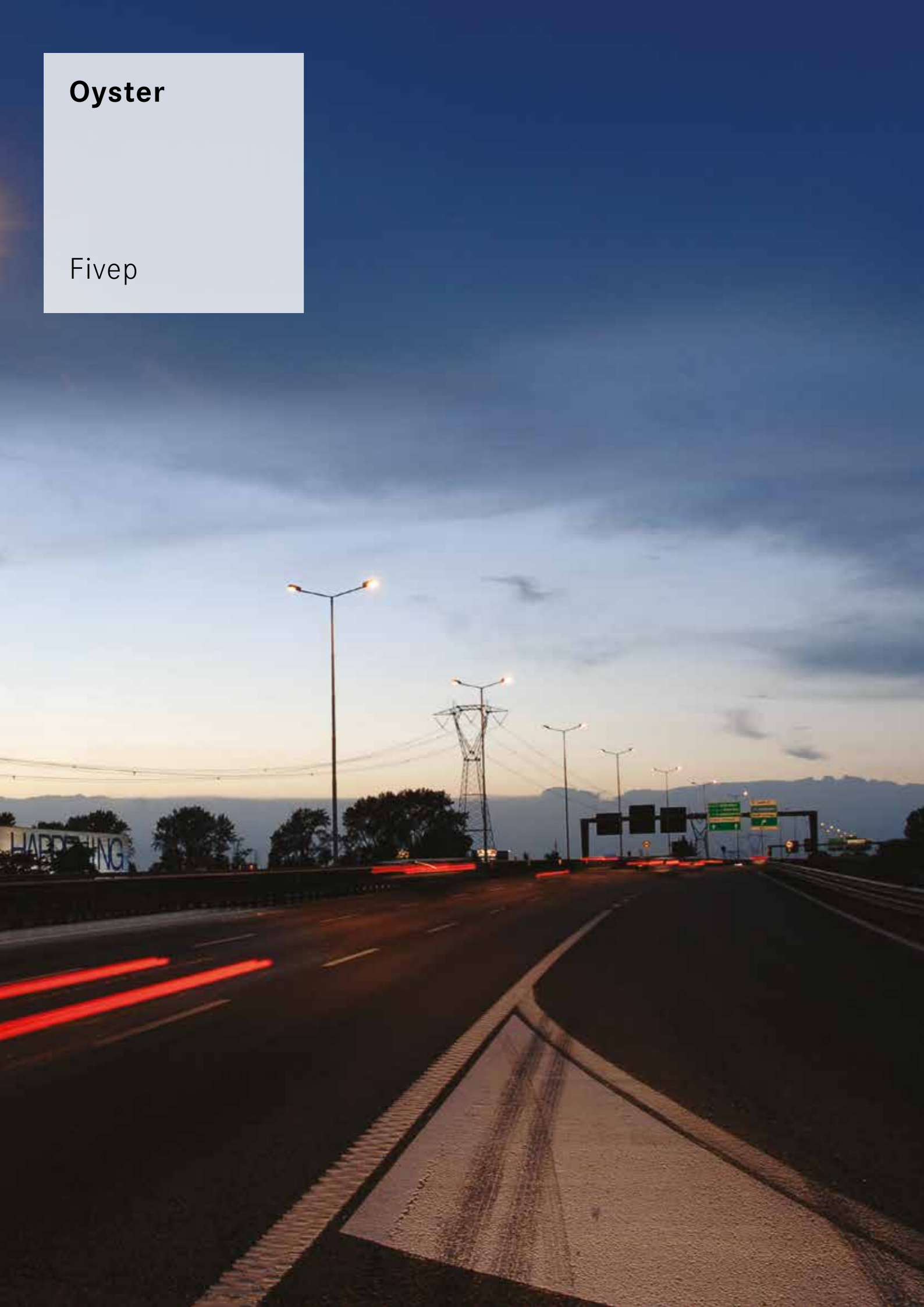
01AK951C0 - Sablé100

B1-P Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm
 B1-P Arm tubular Ø60mm L 1000mm for Ø60-76mm pole
 B1-P Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



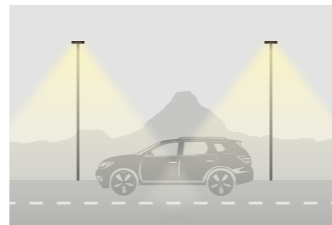
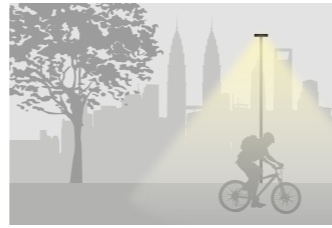
Oyster

Fivep





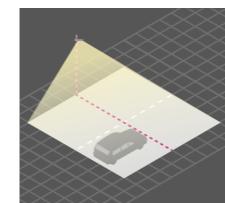
230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
Self-learning virtual midnight DALI on request PLC on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



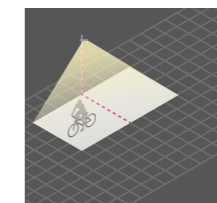
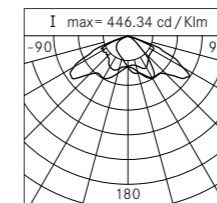
5200-56500lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0%	Cut-Off
DLOR: 100%	Cut-Off

Ottiche stradali

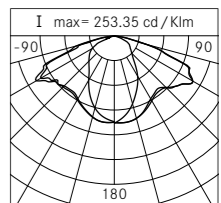
Street optics Optik straßenleuchte



ST (100W ST)



CL (70W ST)



L = Larghezza strada, *Street Width*, Straßenbreite

H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Installazione: palo, braccio, parete

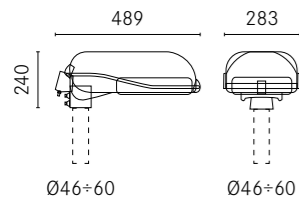
Installation: pole, arm, wall

Installation: Mast, Arm, Wand

Oyster Brackets and poles

230V 50Hz CL II IP66 IK08

Oyster 1 brackets and poles



Max weight: 6.5kg

Max exposed surface: 0.14m²

Lateral exposed surface: 0.07m²

Oyster
01OT1

Lamps

ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	MC 70W E27 7000lm LM
MC-PWB 35W E27 3300lm EM		CPO-TW 60W PGZ-12 9000lm II	
MT-PWB 70W E27 7000lm LI		ST 70W E27 6800lm LO	

Optics

Street optics G	Cycle routes optics H
---------------------------	---------------------------------

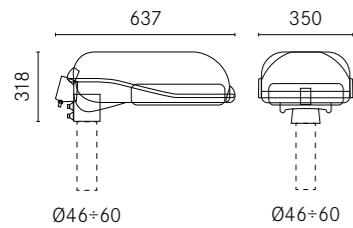
Colors

RAL9006
A

Dimming system

* *Only for Street Optics
GW

Oyster 2 brackets and poles



Max weight: 7.5kg

Max exposed surface: 0.19m²

Lateral exposed surface: 0.08m²

Oyster
01OT2

Lamps

ST 70W E27 6800lm LO	ST 100W E40 10700lm NO	ST 150W E40 17500lm OO	ST 230W E40 33200lm PO
ME 150W E27 12500lm OL	MT 230W E40 20000lm PI	ST 400-250W E40 56500lm RO	

Optics

Street optics
G

Colors

RAL9006
A

Dimming system

* *Only for 6800lm / 10700lm / 17500lm / 33200lm / 56500lm
GW

Esempio *Example* Beispiel

01OT2	LO	G	A	GW
01OT1	EM	H	A	

Accessori *Accessories* Zubehör

06GN902C0

Piastra a muro 90°

90° *Wall plate*

90° *Wandplatte*

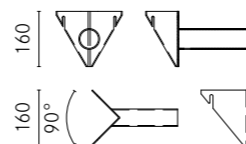


06GN901C0

Piastra angolare 90°

90° *Corner plate*

90° *Eckplatte*



Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316





Strutture per il lavoro, lo sport e la mobilità

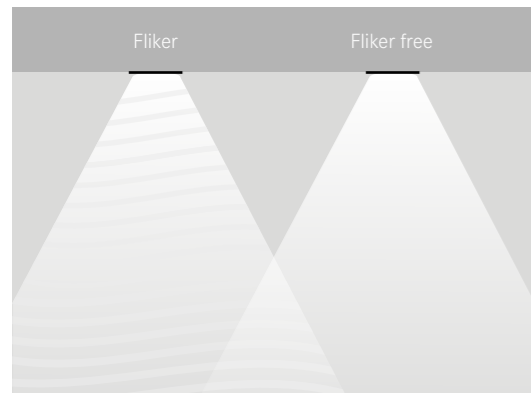
Soluzioni di luce per l'illuminazione professionale di spazi interni ed esterni di strutture per il lavoro, lo sport e la mobilità.

Work, sport and transport structures

Light solutions for professional lighting of indoor and outdoor spaces of work, sport and transport structures.

Anlagen für arbeit, sport und mobilität

Lichtlösungen für die professionelle Beleuchtung der Innen-und Außenbereiche von Anlagen für Arbeit, Sport und Mobilität.



1



1. Assenza di sfarfallio della luce: Flicker Free

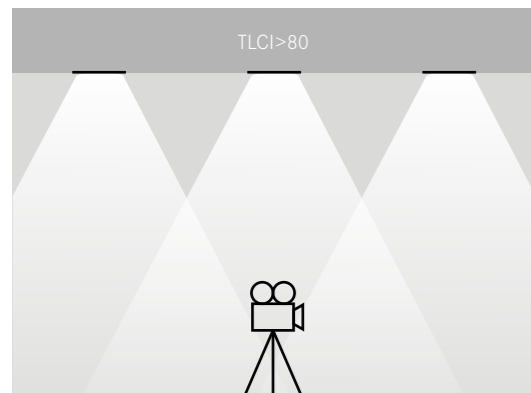
La percezione dello sfarfallio dipende dai parametri del driver di tipo “switching” che alimenta il sistema a LED (frequenza, forma di modulazione, ampiezza in uscita, duty-cycle, etc.). I driver dei LED possono produrre sfarfallio e in aggiunta l'emissione spettrale può cambiare a frequenza relativamente bassa. La IES (2010) raccomanda un driver con frequenza di uscita minima di 120Hz per evitare lo sfarfallio percepibile, ma questa prescrizione non è talvolta sufficiente per garantire la qualità visiva. Per le riprese in slow motion è stato definito un ulteriore parametro chiamato Flicker Factor (FF) che esprime percentualmente la modulazione dell'illuminamento in un punto. Questo fattore dipende dal tipo di alimentatore dell'apparecchio che viene utilizzato e dal tipo di frequenza di fotogrammi (frame rate) della telecamera. Un valore di FF <5% non genera problemi per le principali telecamere utilizzate per gli eventi sportivi che prevedono un frame rate fino a 300 fps (frame per secondo).

1. No light flicker: Flicker Free

The perception of flicker depends on the parameters of the “switching” type drivers that supply the LED system (frequency, modulation, output amplitude, duty-cycle, etc.). The LED drivers can produce flicker and, moreover, the spectral emission can change with a relative low frequency. The IES (2010) recommends a driver with a minimum output frequency of 120Hz to prevent a perceptible flicker, but this recommendation sometimes is not sufficient to guarantee visual quality. For slow motion filming a further parameter has been defined called the Flicker Factor (FF) that expresses light modulation in a particular point as a percentage. This factor depends on the type of driver used for the device and the frame rate of the video camera. A value of FF <5% does not generate problems for the main types of video camera used for filming sports as they normally have a frame rate of up to 300 fps (frames per second).

1. Flimmerfreies Licht: Flicker Free

Die Wahrnehmung des Flimmerns hängt von den Parametern des Vorschaltgeräts (Treibers) ab, über den das LED-System gespeist wird (Frequenz, Modulationsweise, Ausgangsamplitude, Einschaltdauer etc.). Die Treiber der LED-Leuchtmittel können ein Flimmern erzeugen und die spektrale Emission kann sich bei einer relativ niedrigen Frequenz ändern. Die IES (2010) empfiehlt den Einsatz von Vorschaltgeräten mit einer minimalen Ausgangsfrequenz von 120Hz, um ein wahrnehmbares Flimmern auszuschließen, aber diese Vorschrift ist nicht immer ausreichend, um die Sehqualität zu gewährleisten. Für Aufnahmen in Zeitlupe wurde ein weiterer Parameter namens ‚Flicker Factor‘ (FF) festgelegt, der die Modulation der Beleuchtung in einem Punkt prozentual ausdrückt. Dieser Faktor hängt vom Typ des für das Gerät verwendeten Speisers und von der Bildwiederholrate (Frame Rate) der Kamera ab. Ein FF-Wert von <5% erzeugt für die meisten Fernsehkameras, die zur Übertragung von Sportereignissen eingesetzt werden, keine Schwierigkeiten, da sie eine Bildfrequenz von bis 300 fps (Aufnahmen pro Sekunde) besitzen.



2



2. TLCI: Television Lighting Consistency Index > 80

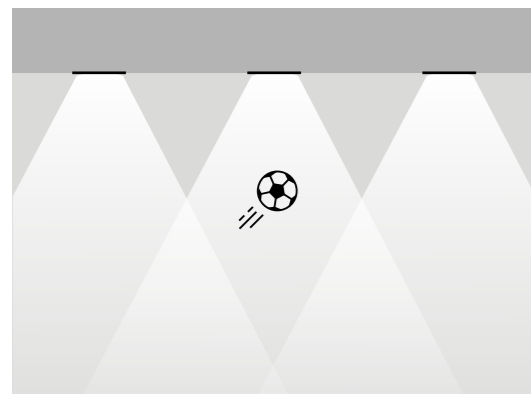
L'evoluzione tecnologica ha portato alla revisione dei requisiti per le trasmissioni televisive e i livelli di illuminazione sono stati rivisti in accordo con le richieste per le riprese HD e 4K. L'indice di resa cromatica (CRI) è stato sostituito dal TLCI (Television Lighting Consistency Index), parametro creato per simulare il comportamento di una telecamera di ultima generazione, non valutando più la prestazione di resa cromatica di un apparecchio in base ai criteri dell'occhio umano. Su richiesta i prodotti della linea M48 sono disponibili con CCT 5700K e CRI 90 che garantiscono un TLCI>80, adatto per impianti con riprese televisive in HD e trasmissione 4K.

2. TLCI: Television Lighting Consistency Index > 80

The advance of technology has led to a revision in the requirements for television broadcasts and lighting levels have also been revised to meet the needs of HD and 4K filming. The Colour Rendering Index (CRI) has been replaced with the TLCI (Television Lighting Consistency Index), a parameter created to simulate the behaviour of a latest generation video camera that no longer assesses colour rendering performance on the basis of human eye criteria. On request, M48 line products are available with CCT 5700K and CRI 90 that guarantee a TLCI>80, suitable for systems used in HD television broadcasts and 4K transmissions.

2. TLCI: Television Lighting Consistency Index > 80)

Technologische Entwicklungen haben die Voraussetzungen für Fernsehübertragungen geändert, daher mussten die Beleuchtungsniveaus den Anforderungen von HD- und 4K-Sendern angepasst werden. Der Farbwiedergabeindex (CRI) wurde im Zuge dieser Änderungen durch den TLCI (Television Lighting Consistency Index) ersetzt, ein Parameter, der das Verhalten einer Fernsehkamera der neuesten Generation simuliert und dabei die Farbwiedergabe eines Leuchtmittels nicht mehr nach dem Kriterium des menschlichen Auges bewertet. Auf Wunsch können die Produkte der Linie M48 mit Leuchtmitteln mit CCT 5700K und CRI 90 bestückt werden, die einen TLCI>80 garantieren und für Anlagen mit HD- und 4K-Sendern geeignet sind.



3



3. Test di resistenza al lancio della palla: DIN 18032-3:1977

I prodotti Cariboni per lo sport hanno superato le prove meccaniche per l'idoneità all'installazione in palazzetti dello sport, palestre e in genere in tutti quegli ambienti dedicati ad attività ginniche. I test vengono eseguiti con una macchina lancia palle a velocità e direzione regolabili secondo la norma DIN 18032-3:1977.

3. Ball impact resistance test: DIN 18032-3:1977

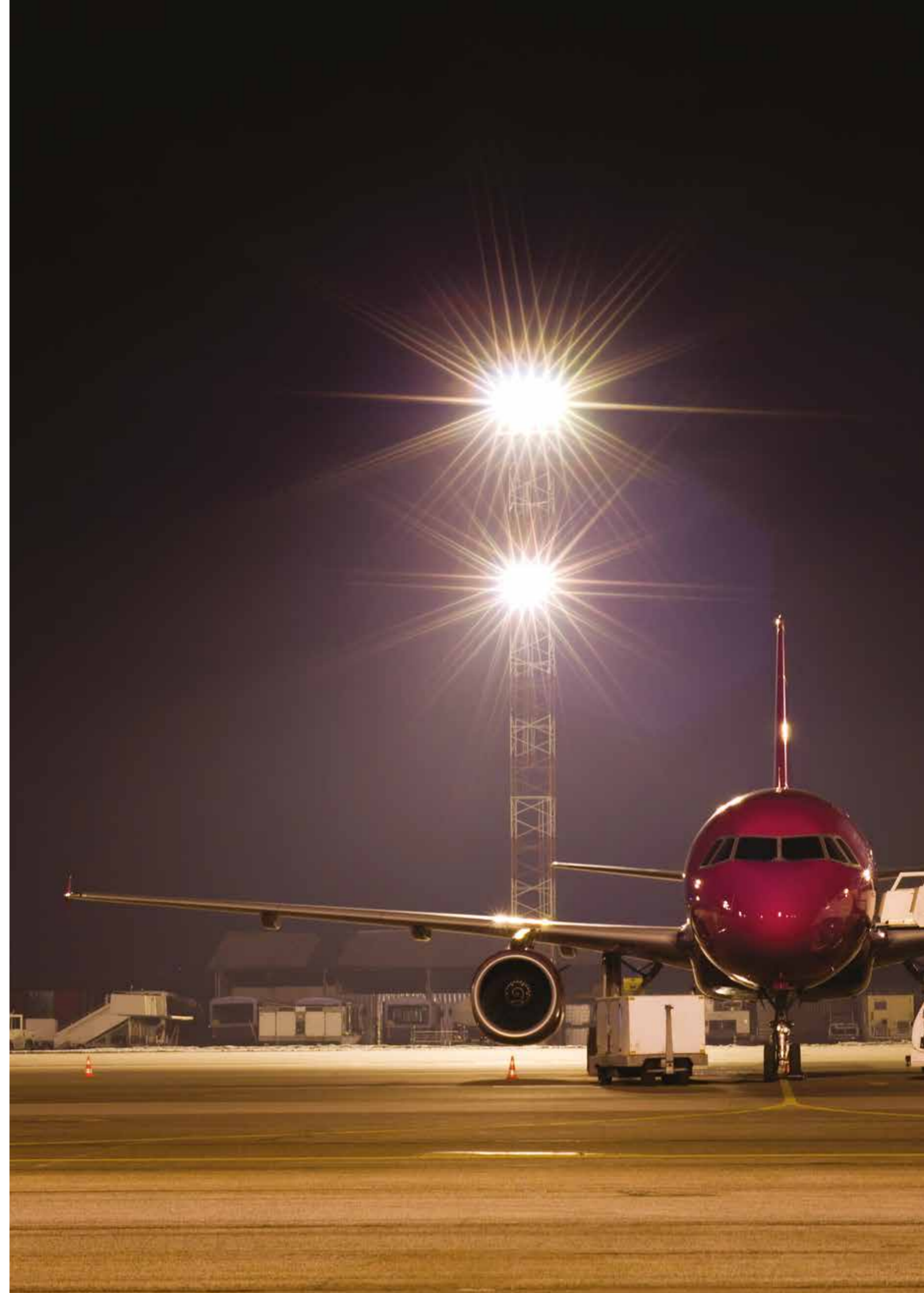
The Cariboni products for sport structures have passed the mechanical tests required for devices installed in sports centres, gyms and any other kind of environment used for sports activities. The tests are conducted using a machine that launches balls at the speeds and in the directions established in the DIN 18032-3:1977 standard.

3. Prüfung der Ballwurfsicherheit: DIN 18032-3:1977

Die Cariboni Produkte, die in Sporthallen und in Hallen und Räumen für Mehrzwecknutzung installiert werden, haben alle entsprechenden Eignungstests bestanden. Die Tests wurden mit einer Ballwurfmaschine mit einstellbarer Geschwindigkeit und Richtung durchgeführt, gemäß DIN 18032-3:1977.

Strutture per il lavoro, lo sport e la mobilità
Work, sport and transport structures
Anlagen für arbeit, sport und mobilität

	M48 Area	M48 Area Flood	M48 Flood	M48 Street	Newton
OPTICS					
Asymmetrical street					
Asymmetrical					
Symmetrical					
Wide beam					
SMART LIGHTING					
Stand alone (virtual midnight)					
Group management (DALI / 1-10)					
Remote management (PLC / wireless)					
FASTENING SYSTEM					
Pole and arm system					
Ceiling suspension					
Ceiling					
POLES					
Tapered					
INSTALLATION					
Floodlight					
Ceiling					
High mast					



M48 System

Cariboni

M48 System

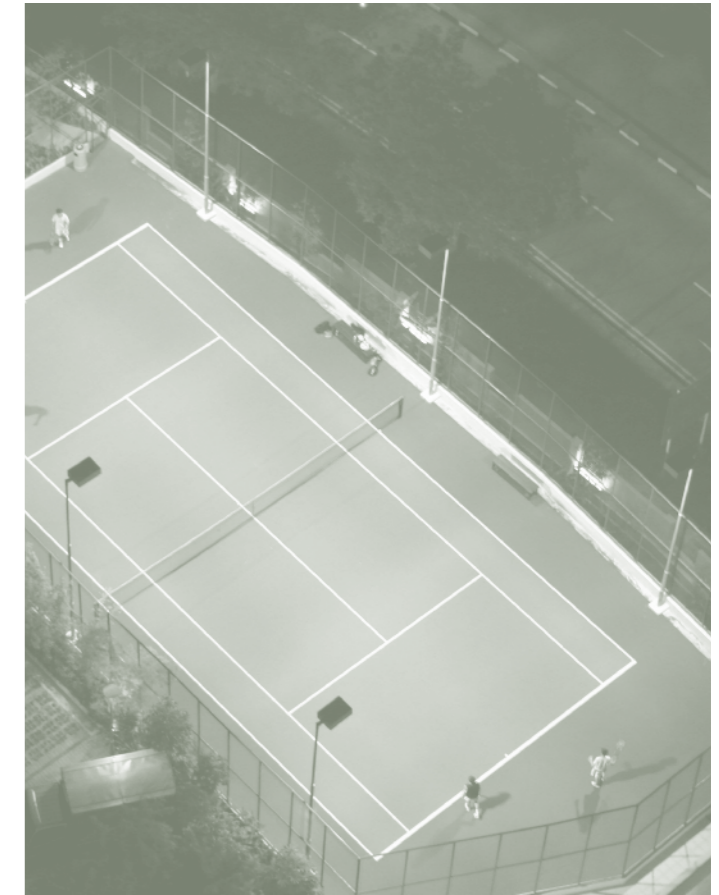
Sistema con tecnologia LED modulare, flessibile e altamente performante per l'illuminazione di grandi aree, strutture sportive, spazi industriali e commerciali, parcheggi, stazioni, tunnel, sottopassi e percorsi veicolari. M48 può essere assemblato con uno, due, tre o quattro moduli ottici e accessorio con differenti sistemi di fissaggio per assecondare ogni specifica esigenza di progetto, sia fotometrica che installativa. La vasta gamma di sistemi ottici della linea M48 garantisce alta efficienza e si adatta a svariati contesti applicativi, sia in ambienti interni che esterni. L'alta efficienza delle sorgenti utilizzate, unita ai differenti sistemi di smart lighting, consente di illuminare solo dove e quando la luce serve, riducendo sprechi e consumi.

M48 System

A system with modular, flexible LED technology offering high-performance for the illumination of large spaces, sporting structures, industrial and commercial areas, car parks, stations, tunnels, underpasses and roads. M48 can be assembled with one, two, three or four optical modules and fitted with various mounting systems to adapt to all specific design requirements, both in terms of lighting and installation methods. The wide range of optical systems in the M48 line guarantees a high level of efficiency, and adapts to various applications, both in internal and external environments. The high efficiency of the light surfaces used, combined with various smart lighting systems, allows for illumination only where and when required, reducing waste and energy consumption.

M48 System

System mit modularer, flexibler und leistungsstarker LED-Technologie für die Beleuchtung von großen Flächen, Sportstätten, Industrie- und Gewerbeflächen, Parkplätzen, Bahnhöfen, Tunneln, Unterführungen und Wegen für den Fahrzeugverkehr. M48 kann mit einem, zwei, drei oder vier Optikmodulen montiert und mit verschiedenen Befestigungssystemen ausgestattet werden, um jegliche spezifische, sowohl photometrische als auch installationstechnische Projektanforderung zu erfüllen. Die große Auswahl an Optiksystemen der M48-Produktreihe gewährleistet eine hohe Lichtausbeute und passt sich an verschiedene Anwendungskontexte an, sowohl im Innen- als auch im Außenbereich. Die hohe Lichtausbeute der verwendeten Lichtquellen in Kombination mit den verschiedenen Smart-Lighting-Systemen ermöglicht es, nur zu beleuchten, wo und wann das Licht benötigt wird, wodurch Verschwendung und Verbrauch verringert werden.



M48 Area

M48 Area Flood

M48 Flood

M48 Street



Aree commerciali *Retail buildings* Gebäude für Handel

Impianti sportivi *Sports structures* Sportstätten

Impianti sportivi *Sports structures* Sportstätten

Grandi svincoli *Large road junctions* Straßenausfahrten



Stazioni *Stations* Bahnhöfe

Sottopassi vicolari *Traffic underpasses*
Unterführungen für Fahrzeugverkehr

Grandi aree *Large areas* Große Flächen

Rotatorie *Roundabouts* Kreisverkehren



Edifici per la logistica *Logistics buildings*
Gebäude für Logistik

Parcheggi *Car parks* Parkplätze

Parcheggi *Car parks* Parkplätze

Strade extra-urbane *Extra-urban roads*
Außerortsstraßen

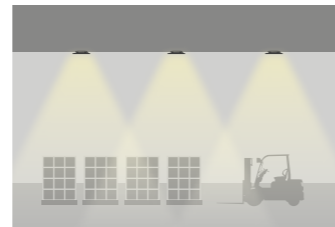
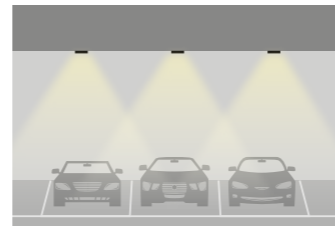
**M48
Area**

Cariboni





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006 White RAL9003	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 DALI Main voltage variation Emergency lighting CLO on request Wireless on request PLC on request Pilot line on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

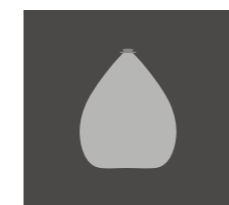


8500-44195lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

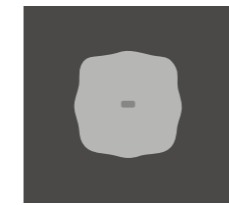
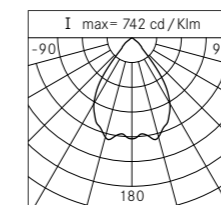
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche quadrata diffondente

Square wide beam optics Quadratisch-breitstrahlende optik

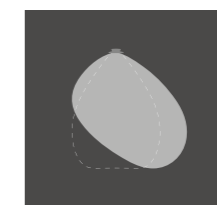


QU-D

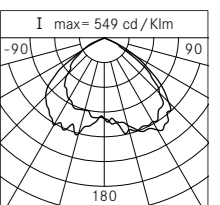


Ottiche rettangolare asimmetrica diffondente

Rectangular asymmetrical wide beam optics Rechteckig-breitstrahlende optik

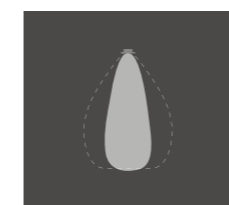


RE-AD

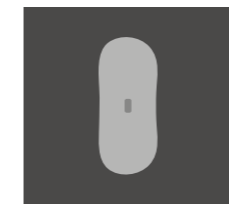
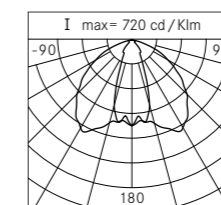


Ottica rettangolare concentrante

Rectangular narrow beam optics Rechteckig-engstrahlende optik


















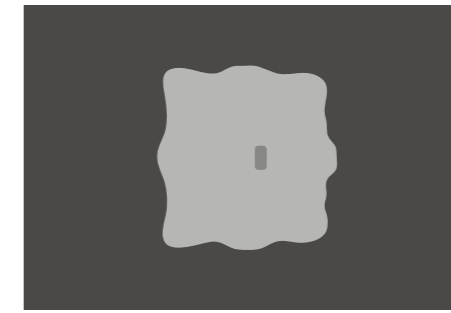
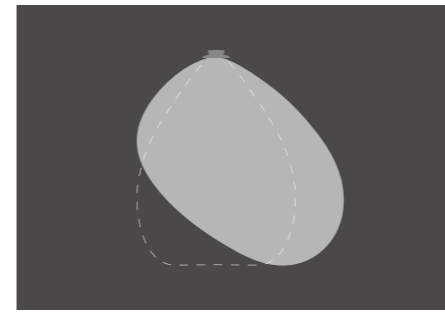
RE-C



Installazione: plafone con staffa, sospensione con funi, barra elettrificata
Installation: ceiling mounted with bracket, suspension with cables, electrified track
Installation: Als Deckenleuchte mit Bügel, Aufhängung mit Seilen, Stromschiene

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		CRI≥80 SMCD=4 su richiesta <i>CRI≥80 SMCD=4 on request</i> CRI≥80 SMCD=4 auf Anfrage
	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		160.000h L80B20 L80B10 Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln
	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit		Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Flicker free <i>Flicker free</i> Flicker free
	VOC free <i>VOC free</i> VOC free		TLCI>85 <i>TLCI>85</i> TLCI>85		Resistenza alle pallonate <i>Ball impact resistance</i> Schlagfestigkeit gegen Bälle



RE-AD

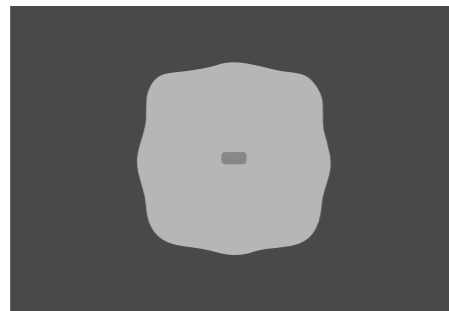
Ottica rettangolare asimmetrica diffondente, il solido fotometrico di forma rettangolare asimmetrica nelle operazioni di relamping di impianti con sorgenti tradizionali consente di risparmiare fino al 35% dei prodotti.

RE-AD

Asymmetric rectangular wide-beam optic: this optics enables up to 35% of products to be saved when relamping traditional light systems.

RE-AD

Asymmetrische, rechteckige und breitstrahlende Optik: Diese Lichtverteilung ermöglicht beim Relamping von Anlagen mit traditionellen Leuchtquellen eine Geräte-Einsparung von bis zu 35%.



QU-D

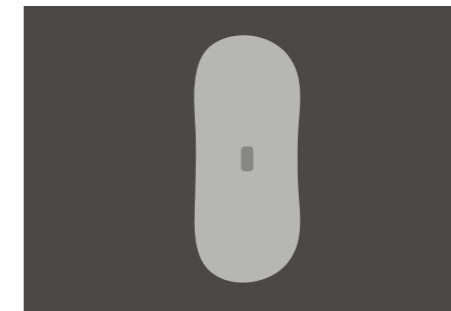
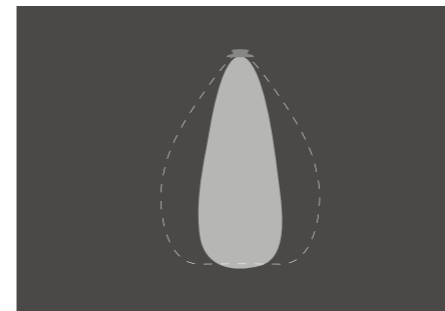
Ottica quadrata diffondente, il solido fotometrico di forma quadrata garantisce una miglior copertura e uniformità dell'area da illuminare, evitando inutili sovrapposizioni di luce. Ciò consente evidentemente una miglior efficienza dell'intero impianto e un'ottimizzazione dei costi di investimento. Nella riqualificazione di impianti con sorgenti tradizionali è adatta per una sostituzione punto a punto.

QU-D

Square diffusing optic: this square photometric solid guarantees superior light distribution and uniformity and avoids unnecessary overlapping. This naturally guarantees a higher level of efficiency in the entire system and optimises investment costs. It is also ideal for point to point replacements when upgrading traditional light source systems.

QU-D

Quadratische breitstrahlende Optik: Die photometrische Lichtverteilung in quadratischer Form garantiert eine verbesserte Abdeckung und Gleichmäßigkeit der zu beleuchtenden Fläche und vermeidet unnötige Lichtüberlappungen. Damit werden eine offensichtliche Leistungssteigerung der gesamten Lichtanlage sowie eine Optimierung der Investitionskosten erzielt. Bei der Umrüstung von Lichtanlagen mit traditionellen Leuchtquellen eignet sich das System für eine Eins-zu-Eins Auswechslung.



RE-C

Ottica rettangolare concentrante, il solido fotometrico rettangolare con intensità luminose particolarmente performanti che consentono l'utilizzo specifica per l'illuminazione di corsie con scaffalature bi-frontali e corridoi.

RE-C

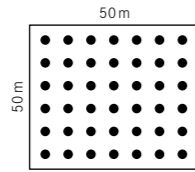
Narrow beam rectangular optic: this optics, with its particularly high performance light intensity is specifically designed for lighting corridors or aisles with shelves on both sides.

RE-C

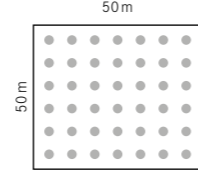
Engstrahlende rechteckige Optik: Diese Optik mit ihrer besonders leistungsstarken Lichtintensität ermöglicht die spezielle Ausleuchtung von Gängen mit doppelseitigen Regalen sowie Korridoren.

QU-D

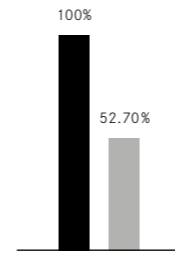
- 400W ME
- M48 QU-D 200W



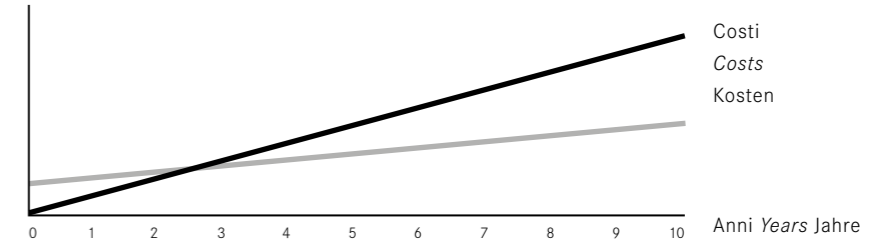
H 10m
 42 Apparecchi *Fitting* Leuchte
 400W ME Riflettore industriale
Industrial high-bay Industriehallenleuchte
 18.1 KW Potenza impianto
Total installed power Installierte Leistung



H 10m
 42 Apparecchi *Fitting* Leuchte
 M48 QU-D 96LED 700mA 200W
 9.5KW Potenza impianto
Total installed power Installierte Leistung



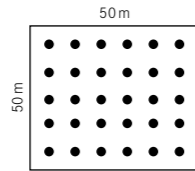
Consumo Energetico
Energy consumption
 Energieverbrauch



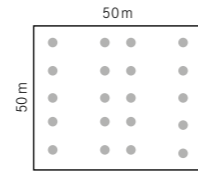
Ammortamento dei costi dopo 2.9 anni
Payback time after 2.9 years
 Amortisation der Kosten nach 2.9 Jahre

RE-AD

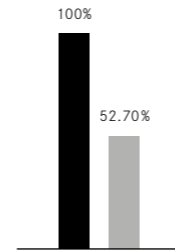
- 400W ME
- M48 RE-AD 300W



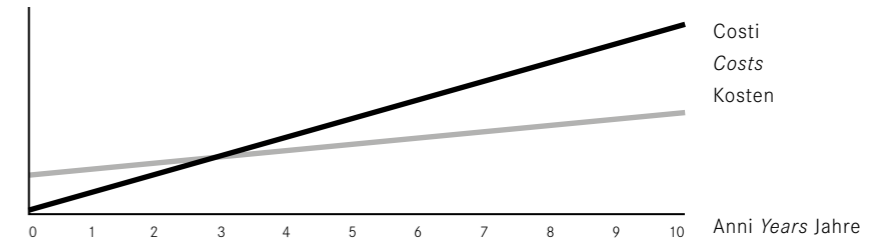
H 8m
 30 Apparecchi *Fitting* Leuchte
 400W ME Riflettore industriale
Industrial high-bay Industriehallenleuchte
 12.9KW Potenza impianto
Total installed power Installierte Leistung



H 8m
 20 Apparecchi *Fitting* Leuchte
 M48 RE-AD 144LED 700mA 300W
 6.8KW Potenza impianto
Total installed power Installierte Leistung



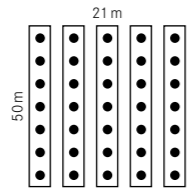
Consumo Energetico
Energy consumption
 Energieverbrauch



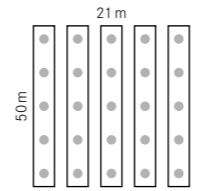
Ammortamento dei costi dopo 2.9 anni
Payback time after 2.9 years
 Amortisation der Kosten nach 2.9 Jahre

RE-C

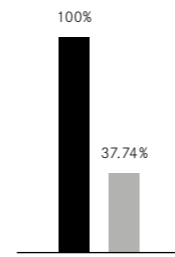
- 400W ME
- M48 RE-C 200W



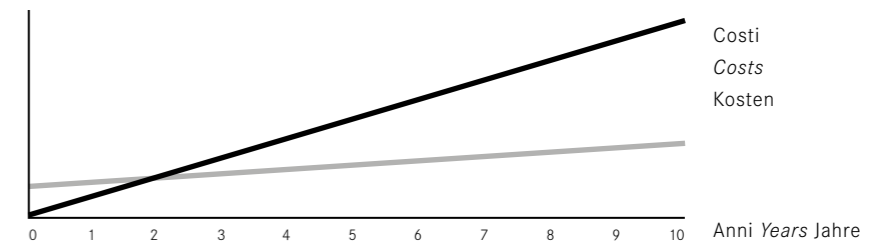
H 10m
 7x5 Apparecchi *Fitting* Leuchte
 400W ME Riflettore industriale
Industrial high-bay Industriehallenleuchte
 15.1 KW Potenza impianto
Total installed power Installierte Leistung



H 10m
 5x5 Apparecchi *Fitting* Leuchte
 M48 RE-C 96LED 700mA 200W
 5.7KW Potenza impianto
Total installed power Installierte Leistung



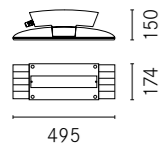
Consumo Energetico
Energy consumption
 Energieverbrauch



Ammortamento dei costi dopo 2 anni
Payback time after 2 years
 Amortisation der Kosten nach 2 Jahre

220 240V	50 60Hz	CL II	IP66	IK08
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M48 Area ceiling 1 module



Max weight: 7.6 kg
 Max exposed surface: 0.081 m²
 Lateral exposed surface: 0.051 m²

M48 Area 1 module
06MQ1
 Led (source flux)
 Ref. @700mA @4000K
 14730lm 102W
E8

mA

700	525	350
0	5	3

K

4000
0

Optics

QU-D	RE-AD	RE-C
85	86	87

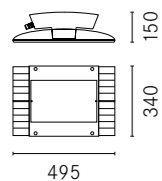
Colors

RAL9006	RAL9003
A	D

Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

M48 Area ceiling 2 modules



Max weight: 14 kg
 Max exposed surface: 0.162m²
 Lateral exposed surface: 0.051 m²

M48 Area 2 modules
06MQ1
 Led (source flux)
 Ref. @700mA @4000K
 29460lm 205W
L6

mA

700	525	350
0	5	3

K

4000
0

Optics

QU-D	RE-AD	RE-C
85	86	87

Colors

RAL9006	RAL9003
A	D

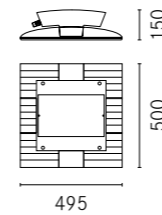
Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

Esempio Example Beispiel

06MQ1	L6	0	0	85	A	HM4
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M48 Area ceiling 3 modules



Max weight: 18.5 kg
 Max exposed surface: 0.243m²
 Lateral exposed surface: 0.051 m²

M48 Area 3 module
06MQ1
 Led (source flux)
 Ref. @700mA @4000K
 44195lm 308W
Q4

mA

700	525	350
0	5	3

K

4000
0

Optics

QU-D	RE-AD	RE-C
85	86	87

Colors

RAL9006	RAL9003
A	D

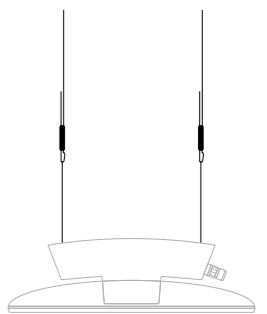
Smart Lighting

Custom programmable virtual midnight and DALI standard
HM4

Accessori Accessories Zubehör

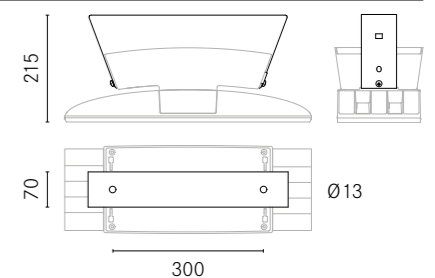
06MQ901J - Sablé 100

Kit di sospensione a soffitto L 1.5m max
 Kit for ceiling suspended installation L 1.5m max
 Deckenaufhängungs-Kit L 1.5m max



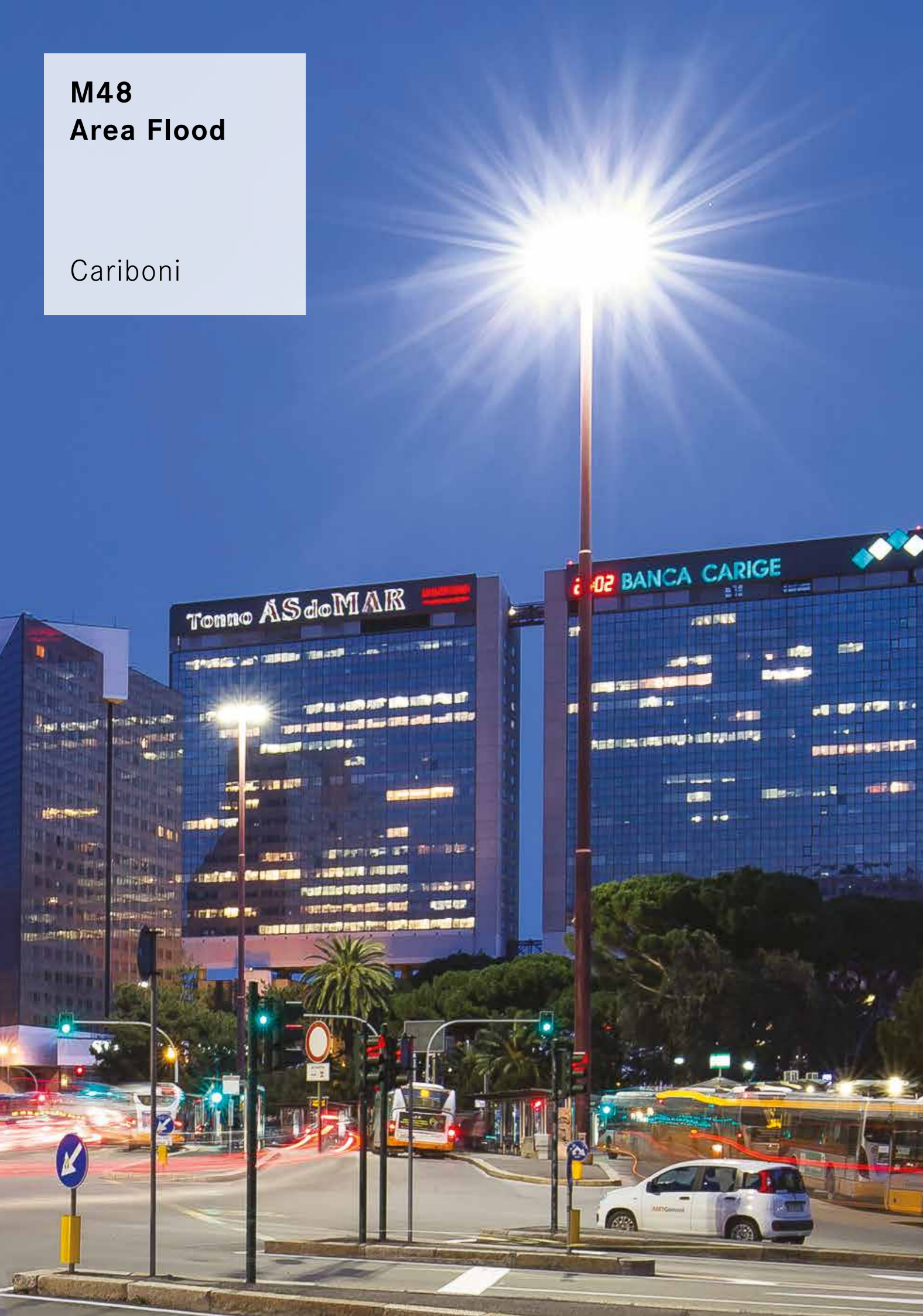
06MQ900A - RAL9006 / 06MQ900D - RAL9006

Staffa a plafone
 Ceiling-mount bracket
 Decken-Fixierbüge



M48
Area Flood

Cariboni





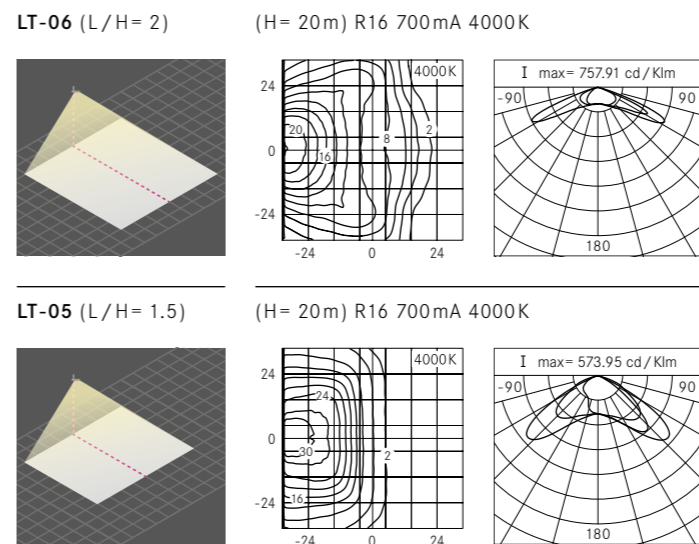
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I only 4 modules CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +45°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 Main voltage variation Emergency lighting CLO on request DALI on request Wireless on request PLC on request Pilot line on request Motion detectors/ brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



16835-61185lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20 > 160.000h @700mA @Ta25°C TM21 L80B10	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen

Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

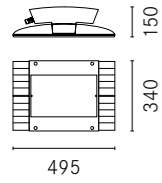
Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz	160.000h L80B20 L80B10	Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
	Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV	CLO	CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Precablaggio <i>Pre-wiring</i> Vorverkabelung
	Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit		Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		Flicker free <i>Flicker free</i> Flicker free
	VOC free <i>VOC free</i> VOC free	4K ULTRA HD	TLCI>85 <i>TLCI>85</i> TLCI>85		Resistenza alle pallonate <i>Ball impact resistance</i> Schlagfestigkeit gegen Bälle

Installazione: staffa per plafone, torre faro (su richiesta versione orientabile)
Installation: bracket for ceiling mounting or light tower (swivel version available on request)
Installation: Bügel für Decken- oder Scheinwerfermasten-Einbau (auf Anfrage auch in schwenkbarer Version)

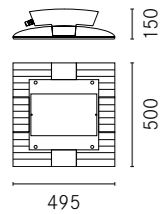
M48 Area Flood flood 2 modules



Max weight: 17kg
Max exposed surface: 0.162m²
Lateral exposed surface: 0.06m²

M48 Area 2 modules 06MQ5		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
31265lm 192W	29810lm 192W	
L6	L6	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
LT-5	LT-6	
38	37	
Colors		
RAL9006		
A		
Smart Lighting		
Custom programmable virtual midnight and DALI standard		
HM4		

M48 Area Flood flood 3 modules



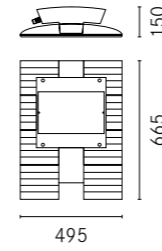
Max weight: 21 kg
Max exposed surface: 0.243m²
Lateral exposed surface: 0.07m²

M48 Area 3 modules 06MQ5		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
46225lm 286W	44075lm 286W	
Q4	Q4	
mA		
700	525	350
0	5	3
K		
4000	3000	
0	9	
Optics		
LT-5	LT-6	
38	37	
Colors		
RAL9006		
A		
Smart Lighting		
Custom programmable virtual midnight and DALI standard		
HM4		

Esempio Example Beispiel

06MQ5	Q4	0	0	38	A	HM4
--------------	-----------	----------	----------	-----------	----------	------------

M48 Area Flood flood 4 modules



Max weight: 26 kg
Max exposed surface: 0.324m²
Lateral exposed surface: 0.08m²

M48 Area 4 modules 06MQ5		
Led (source flux): Ref. @700mA @4000K Ref. @700mA @3000K		
61185lm* 381W	58335lm* 381W	
V2	V2	
mA		
700		
0		
K		
4000	3000	
0	9	
Optics		
LT-5	LT-6	
38	37	
Colors		
RAL9006		
A		
Insulation class		
CL I		
S		

*with CL I

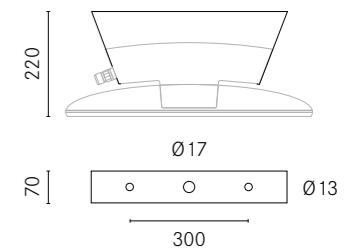
Esempio Example Beispiel

06MQ5	V2	0	0	38	A	S
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Accessori Accessories Zubehör

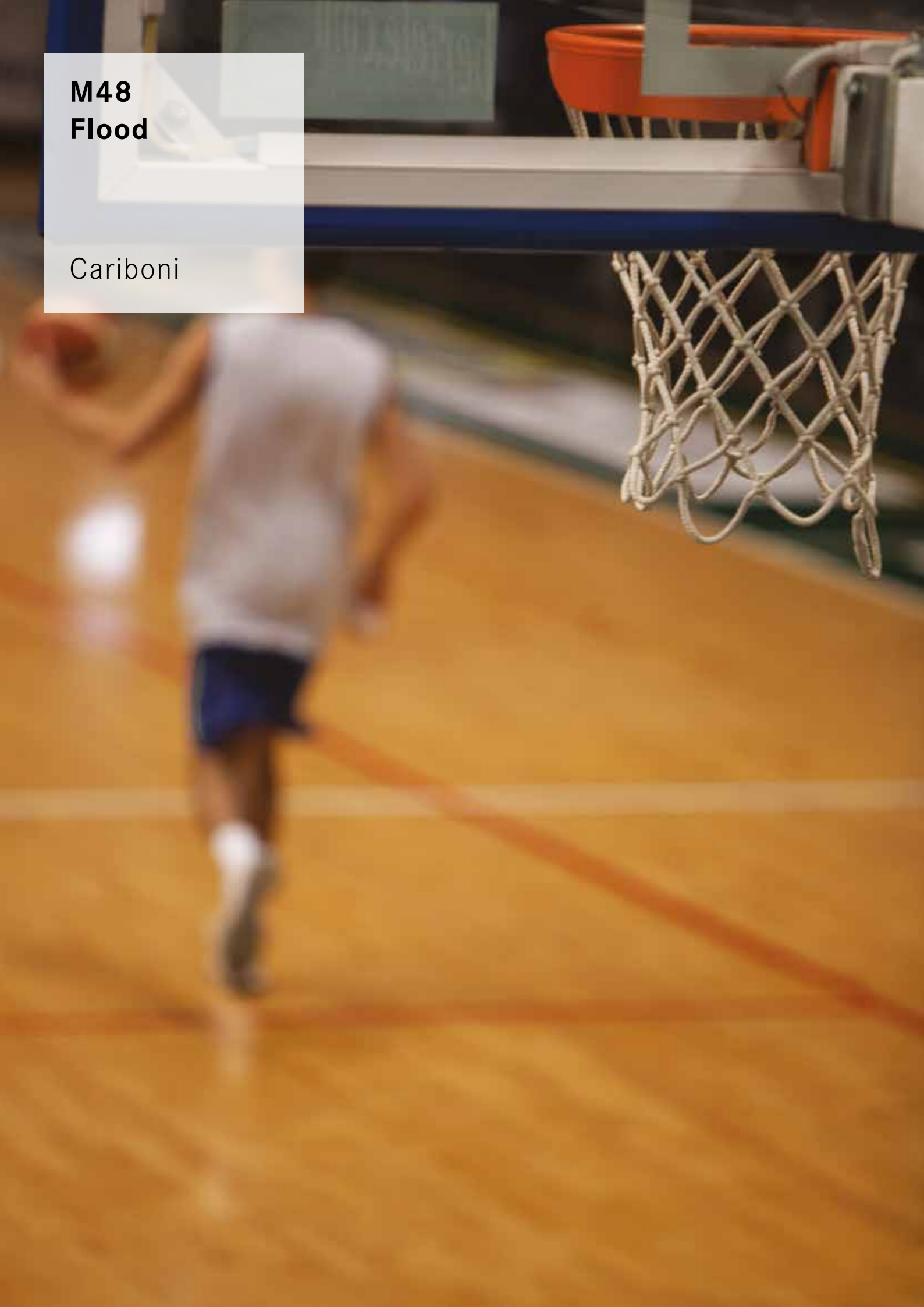
06MQ902XX

Staffa in acciaio Inox AISI 316
AISI 316 stainless steel bracket
Bügel aus Edelstahl AISI 316



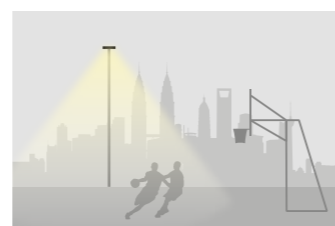
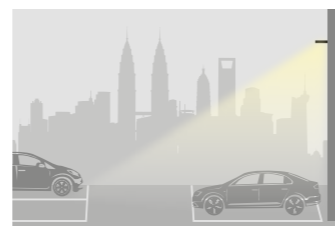
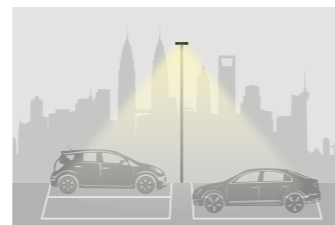
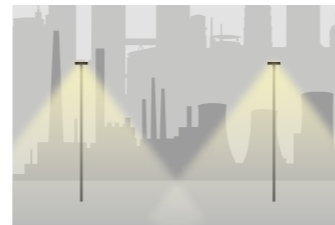
**M48
Flood**

Cariboni





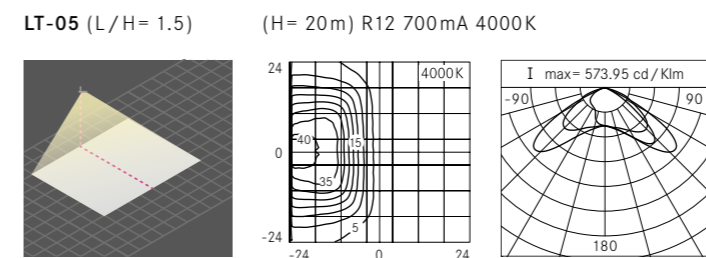
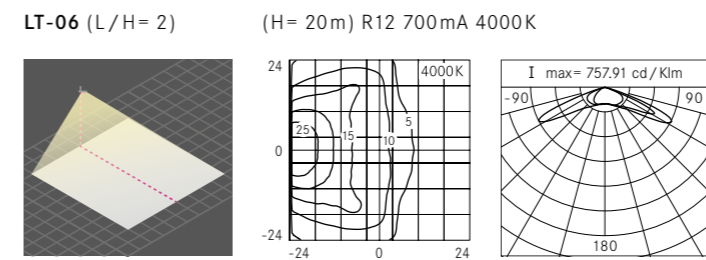
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 Main voltage variation CLO on request DALI on request Wireless on request PLC on request Pilot line on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



1685-46225lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20 > 160.000h @700mA @Ta25°C TM21 L80B10	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen

Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

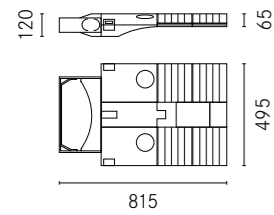
	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung		Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz
	Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln		Ta -30°C +50°C Ta -30°C +50°C Ta -30°C +50°C		Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische
	Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV		CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)		Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt
	Precablaggio <i>Pre-wiring</i> Vorverkabelung		Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit		Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit
	Flicker free <i>Flicker free</i> Flicker free		TLCI>85 TLCI>85 TLCI>85		

Installazione: staffa orientabile per parete o per palo
Installation: adjustable bracket for wall or pole mounting
Installation: Schwenkbarer Bügel für Wandanbau oder Masten

M48 Flood Flood

220 240V	50 60Hz	CL II	IP66	IK08
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M48 Flood flood 2 modules



Max weight: 21 kg
Max exposed surface: 0.300m²
Lateral exposed surface: 0.06m²

M48 Flood 2 modules **06MQ4**

Led (source flux):
Ref. @700mA @4000K Ref. @700mA @3000K
31265lm 192W 29810lm 192W

L6	L6
-----------	-----------

mA		
700	525	350
0	5	3

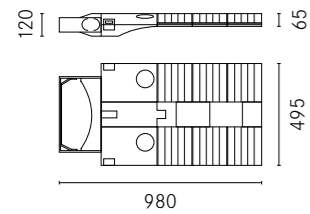
K	
4000	3000
0	9

Optics	
LT-5	LT-6
38	37

Colors	
RAL9006	
A	

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	

M48 Flood flood 3 modules



Max weight: 21 kg
Max exposed surface: 0.300m²
Lateral exposed surface: 0.06m²

M48 Flood 3 modules **06MQ4**

Led (source flux):
Ref. @700mA @4000K Ref. @700mA @3000K
46225lm 286W 44075lm 286W

Q4	Q4
-----------	-----------

mA		
700	525	350
0	5	3

K	
4000	3000
0	9

Optics	
LT-5	LT-6
38	37

Colors	
RAL9006	
A	

Smart Lighting	
Custom programmable virtual midnight and DALI standard	
HM4	

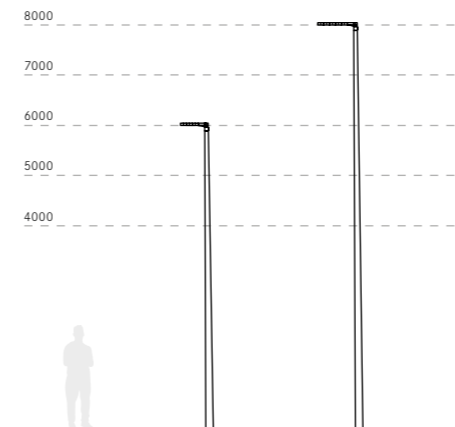
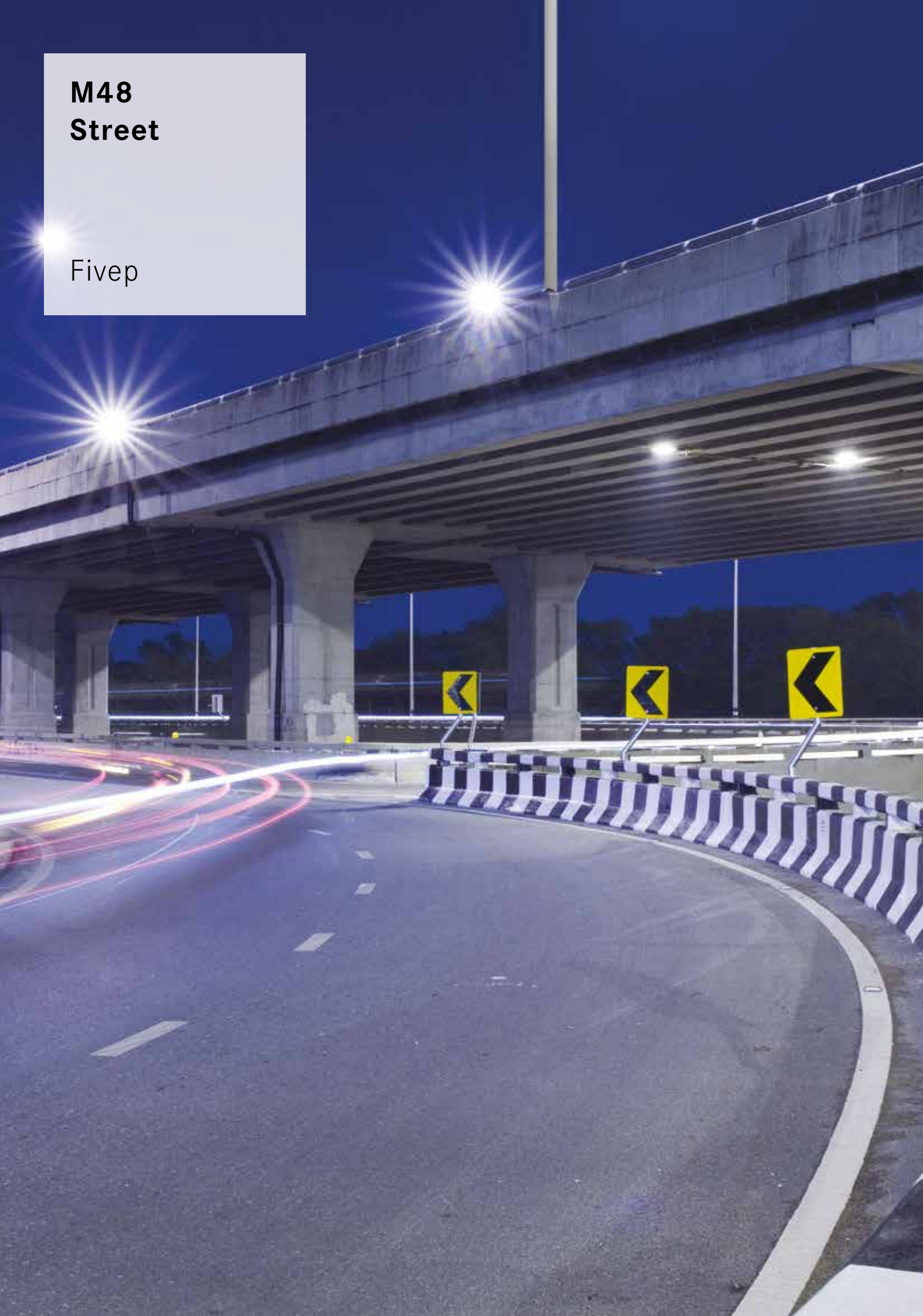
Esempio *Example* Beispiel

06MQ4	Q4	0	0	38	A	HM4
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M48
Street

Fivep

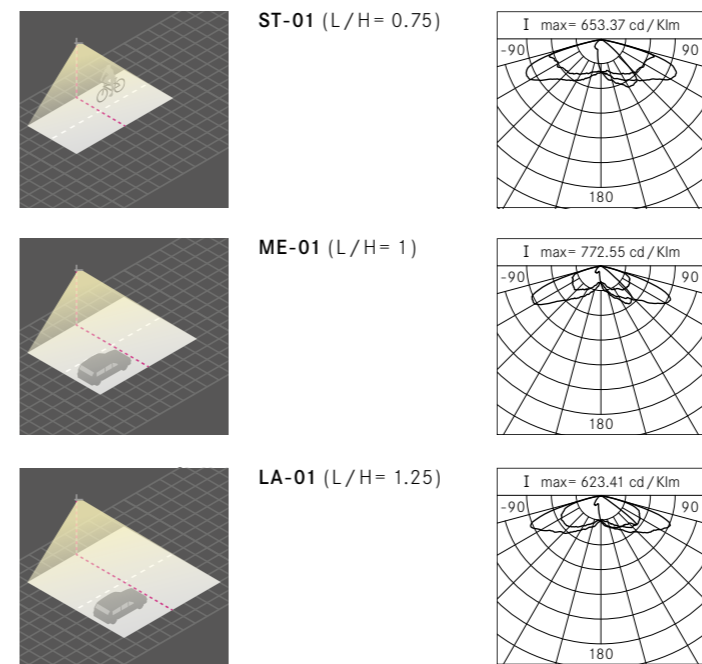




220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 HM4 CLO on request HM3 1-10V on request HM3 Main voltage variation HM4 DALI on request HM4 Pilot line on request HM4 Wireless on request PLC on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

16835-34955lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle	≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off	> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
4000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur	> 160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe

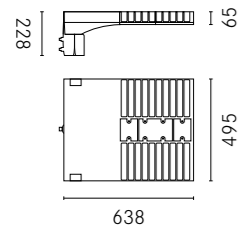
Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

	Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"		Cut-Off <i>Cut-Off</i> Cut-Off		Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
	Maggiore efficienza energetica <i>Greater energy efficiency</i> Höhere Energieeffizienz		Maggiore durata vita delle sorgenti <i>Longer lifetime of sources</i> Längere Lebensdauer von Leuchtmitteln		Ta -30°C +50°C <i>Ta -30°C +50°C</i> Ta -30°C +50°C
	Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische		Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV		CLO (Constant Lumen Output) <i>CLO (Constant Lumen Output)</i> CLO (Constant Lumen Output)
	Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt		Precablaggio <i>Pre-wiring</i> Vorverkabelung		Sostituibilità gruppo ottico <i>Optical unit substitutability</i> Ersetzbarkeit der optischen Einheit
	Sostituibilità gruppo alimentazione <i>Power supply unit substitutability</i> Ersetzbarkeit der Versorgungseinheit		VOC free <i>VOC free</i> VOC free		

Installazione: fissaggio con inclinazione regolabile per palo o per braccio Ø60-76mm
Installation: adjustable angle fitting for Ø60-76mm poles or arms
Installation: Befestigung mit verstellbarer Neigung für Masten oder Ausleger Ø60-76mm

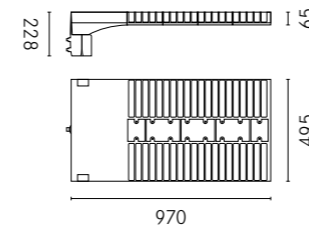
M48 Street
brackets and poles 2 modules



Max weight: 17.5kg
Max exposed surface: 0.300m²
Lateral exposed surface: 0.006m²

M48 Street 2 modules						
01MQ1						
Led (source flux):						
Ref. @700mA @4000K			Ref. @700mA @3000K			
31265lm 192W			29810lm 192W			
L6			L6			
mA: HM3						
700	525	350	700	525	350	
0			0 5 3			
K						
4000	3000					
0 9						
Optics						
ST-01	ME-01	LA-01				
30	32	31				
Colors						
RAL9006						
A						
Smart Lighting						
Preset virtual midnight			Custom programmable virtual midnight and DALI standard			
HM3			HM4			

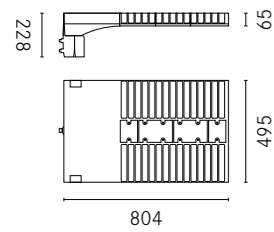
M48 Street
brackets and poles 4 modules



Max weight: 25.5kg
Max exposed surface: 0.462m²
Lateral exposed surface: 0.008m²

M48 Street 4 modules						
01MQ1						
Led (source flux):						
Ref. @350mA @4000K			Ref. @350mA @3000K			
34955lm 186W			33330lm 186W			
V2			V2			
mA						
350						
3						
K						
4000	3000					
0 9						
Optics						
ST-01	ME-01	LA-01				
30	32	31				
Colors						
RAL9006						
A						
Smart Lighting						
Custom programmable virtual midnight and DALI standard						
HM4						

M48 Street
brackets and poles 3 modules



Max weight: 21 kg
Max exposed surface: 0.381 m²
Lateral exposed surface: 0.007m²

M48 Street 3 modules						
01MQ1						
Led (source flux):						
Ref. @700mA @4000K			Ref. @700mA @3000K			
46225lm 286W			44075lm 286W			
Q4			Q4			
mA: HM3						
700	525	350	700	525	350	
0			0 5 3			
K						
4000	3000					
0 9						
Optics						
ST-01	ME-01	LA-01				
30	32	31				
Colors						
RAL9006						
A						
Smart Lighting						
Preset virtual midnight			Custom programmable virtual midnight and DALI standard			
HM3			HM4			

Esempio Example Beispiel

01MQ1	Q4	0	0	30	A	HM3
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Newton

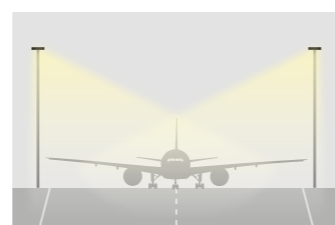
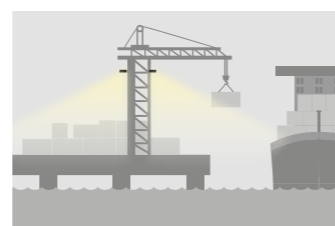
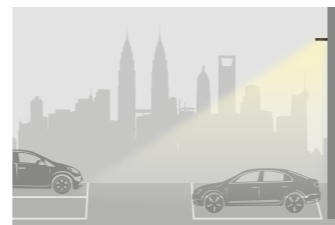
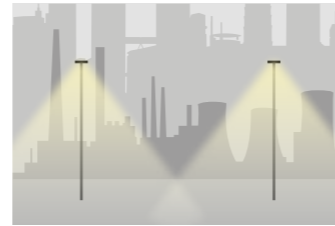
Cariboni





230V 50Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30°C +50°C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM4 CLO on request PLC on request DALI on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung

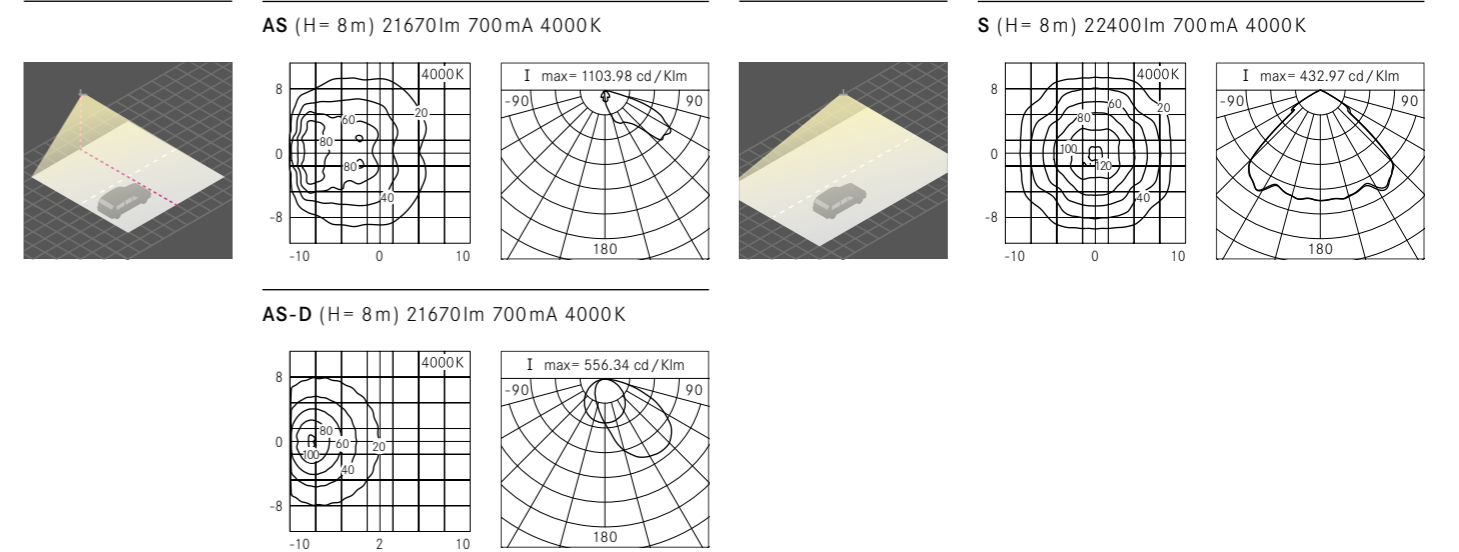
Installazione: parete, palo
Installation: wall, pole
Installation: Wand, Mast



5335-22400lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle	≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off		
4000K 3000K	Temperatura colore <i>Colour temperature</i> Farbtemperatur		

Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte

Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308

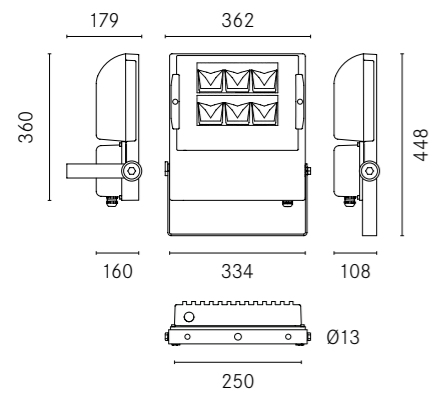
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310

Sistema ottico multilayers <i>Multilayer optical system</i> Optisches System "Multilayer"	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung	Ta -30°C +50°C Ta -30°C +50°C Ta -30°C +50°C
Resistenza agenti chimici/atmosferici <i>Resistance to chemical/atmospheric agents</i> Widerstand chemische/atmosphärische	Resistenza sovratensioni fino a 10kV <i>Overvoltage resistance up to 10kV</i> Überspannungsfestigkeit bis 10kV	CLO (Constant Lumen Output) CLO (Constant Lumen Output) CLO (Constant Lumen Output)
Prodotto orientabile <i>Orientable product</i> Ausrichtbares Produkt	Flicker free <i>Flicker free</i> Flicker free	VOC free VOC free VOC free
4K ULTRA HD TLCI>85 TLCI>85 TLCI>85	Resistenza alle pallonate <i>Ball impact resistance</i> Schlagfestigkeit gegen Bälle	

Newton Flood

230V 50Hz CL II IP66 IK08

Newton flood



Max weight: 9 kg
 Max exposed surface: 0.11 m²
 Lateral exposed surface: 0.035 m²

Newton 06NW0

Led (source flux) Ref. @700mA @4000K

11295lm* 72W A9	21670lm** 142W B8	22400lm*** 142W B8	*Optics AS **Optics AS and AS-D ***Optics S
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Led (source flux) Ref. @700mA @3000K

9795lm* 72W A9	18780lm** 142W B8	19415lm*** 142W B8	
--------------------------	-----------------------------	------------------------------	--

mA

700 0	525 5	350 3
-----------------	-----------------	-----------------

K

4000 0	3000 9
------------------	------------------

Optics

S 5	AS 7	AS-D 7
---------------	----------------	------------------

Colors

RAL9006 A	Sablé100 C
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Screen

Screen sandblasted flat glass* J	*Only 21670lm Optics AS-D
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Smart Lighting

Custom programmable virtual midnight HM4
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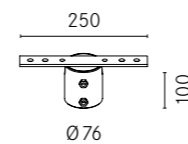
Esempio Example Beispiel

06NW0	A9	0	0	7	A	HM4
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Accessori Accessories Zubehör

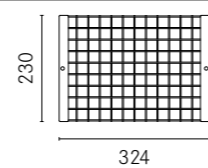
06NW902A0 - RAL9006 / 06NW902C0 - Sablé100

L14 Kit attacco palo Ø76mm
 L14 Kit for post Ø76mm
 L14 Kit für Mast Ø76mm



06NW901B0 - RAL9005

Griglia
 Grid
 Schutzgitter





45°31'07.5"N 9°05'09.8"E
Torre Orizzontale, Milano



44°26'58.2"N 26°04'05.2"E
Basarab Bridge, Bucaresti



47°19'26.0"N 9°05'15.7"E
Loretostrasse, Lichtensteig



41°23'51.4"N 2°12'38.7"E
Waterfront, Barcelona



44°36'46.1"N 11°22'49.0"E
Logistics Centre, Bologna



45°26'43.8"N 12°18'46.7"E
Ponte della Libertà, Venezia



43°43'24.1"N 15°53'44.8"E
D-Resort, Sibenik



45°02'51.1"N 9°41'34.6"E
Basilica Sant'Agostino, Piacenza



46°59'42.7"N 11°30'05.8"E
Plessi Museum, Brennero



45°28'59.5"N 9°11'40.1"E
The Green Circle, Milano



44°00'21.2"N 12°39'26.7"E
Waterfront, Riccione



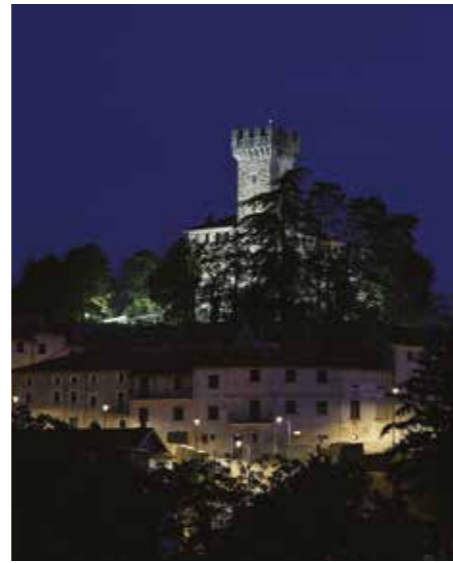
44°19'42.3"N 8°30'25.6"E
Promenade, Albisola Superiore



44°03'05.7"N 9°50'10.1"E
Waterfront, Porto Venere



48°47'15.9"N 8°54'54.5"E
Robert Bosch Campus, Renningen



44°39'41.6"N 8°35'09.7"E
Borgo, Trisobbio



58°27'44.6"N 8°46'24.2"E
City, Arendal



45°42'17.5"N 9°06'58.7"E
Golf Club, Carimate



45°28'04.4"N 9°10'01.0"E
Via XX Settembre, Milano

