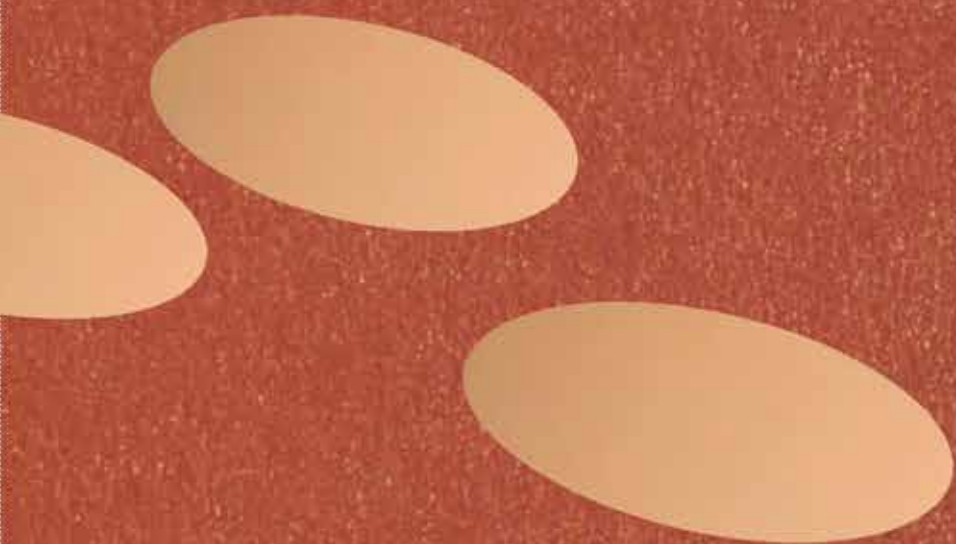


# BEL LIGHTING

SINCE 1991





# Terms & conditions

Catalogue edition 03/2026

The data in this catalogue are provided in good faith and only for your information.  
This data may not be used against BEL Lighting.

Prices valid from March 1, 2026 and cancels all previous price lists.  
Prices ex works and without taxes (VAT, Recycling contribution,...).  
BEL LIGHTING reserves all rights to alter all product price and data any time, without any notice.  
The general BEL LIGHTING conditions of sale are always applicable.  
Nothing in this catalogue may be reproduced without permission in writing from the BEL LIGHTING company.



The design, production and assembling are all made 100% in the company.  
We use solid and durable materials like stainless steel, aluminum, brass, copper and Belgian blue stone.

BEL LIGHTING offers you the option of extending the initial 3-year warranty by an additional two years.  
This gives you a total of 5 years of warranty!  
The request must be made no later than 90 (ninety) days after the invoice date for the items in question.

For use in an aggressive environment (near the sea,...), we recommend to use our stainless steel fixtures with an electro-polishing treatment, see info pages in our general catalogue.



**Extended Warranty Registration :**  
[www.bel-lighting.com/extended-warranty](http://www.bel-lighting.com/extended-warranty)  
5 year warranty included!



**General terms and conditions :**  
[www.bel-lighting.com/sales-conditions](http://www.bel-lighting.com/sales-conditions)

We invite you to read carefully our general conditions of sale and warranty.

BEL LIGHTING is certified ISO 9001-2015, ISO 14001-2015 & ISO 45001-2018.

**ISO 9001**

**Quality Management**

Focuses on customer satisfaction and continuous improvement



**ISO 14001**

**Environmental Management**

Helps organizations minimize environmental impact



**ISO 45001**

**Occupational Health & Safety**

Protects workers and promotes a safe workplace





# WHO WE ARE

---

## EN

Founded in 1991, BEL LIGHTING remains an independent family-owned company, true to its values and entrepreneurial spirit. Today, the company employs more than forty people across its production site in Megara, Greece, as well as its headquarters and assembly centre in Saintes, Belgium.

As a lighting designer and manufacturer specialized in outdoor lighting, BEL LIGHTING continuously monitors technological developments in the lighting industry to deliver high-performance and sustainable solutions. Attentive to the specific needs of its partners worldwide, the company develops and produces innovative lighting solutions tailored to the requirements of both private and public projects.

Our products and services benefit from internationally recognised certifications, ensuring the quality, reliability and compliance of our luminaires with applicable standards.

We equip our partners with complete, high-quality technical documentation, including photometric data validated by our laboratories. This allows accurate lighting simulations and confident decision-making before installation. Our technical experts provide personalized support for tailor-made solutions, working hand in hand with architects and business partners to bring every project to life, from concept to completion.

Design, development, and manufacturing are carried out entirely in-house. We have chosen to build our reputation on uncompromising quality, which is why we exclusively use first-choice materials. Some of our products are manufactured using natural materials, such as aluminum, brass, stainless steel, copper and Belgian stone, left uncoated to ensure seamless integration into their natural surroundings.

Technical excellence and distinctive design are the core priorities guiding the development and production of our luminaires.

This edition of our catalogue is more than an update of the full range of our lighting products; it's reflects the collective work of our research, design, technical, production, and marketing teams, all driven by a shared commitment to innovation and quality.

BEL LIGHTING, value added to the light !



Headquarters in Belgium



Factory in Greece

# WHO WE ARE

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## NL

Opricht in 1991, blijft BEL LIGHTING een onafhankelijk familiebedrijf, trouw aan zijn waarden en ondernemingsgeest. Vandaag telt het bedrijf meer dan veertig medewerkers op de productielocatie in Megara, Griekenland, evenals op het hoofdkantoor en assemblagecentrum in Saintes, België.

Als ontwerper en fabrikant van buitenverlichting volgt BEL LIGHTING continu de technologische ontwikkelingen in de verlichtingsindustrie om hoogwaardige en duurzame oplossingen te bieden. Rekening houdend met de specifieke behoeften van partners wereldwijd, ontwikkelt en produceert het bedrijf innovatieve verlichtingsoplossingen, afgestemd op de eisen van zowel particuliere als openbare projecten.

Onze producten en diensten profiteren van internationaal erkende certificeringen, die de kwaliteit, betrouwbaarheid en naleving van onze armaturen volgens de geldende normen waarborgen.

Wij voorzien onze partners van volledige, hoogwaardige technische documentatie, inclusief fotometrische gegevens die door onze laboratoria zijn gevalideerd. Dit maakt nauwkeurige lichtsimulaties en weloverwogen beslissingen vóór de installatie mogelijk. Onze technische experts bieden persoonlijke ondersteuning voor maatwerkoplossingen en werken nauw samen met architecten en zakenpartners om elk project tot leven te brengen, van concept tot uitvoering.

Ontwerp, ontwikkeling en productie vinden volledig intern plaats. Wij hebben ervoor gekozen onze reputatie op compromisloze kwaliteit te bouwen, daarom gebruiken we uitsluitend materialen van de hoogste kwaliteit. Sommige van onze producten worden vervaardigd uit natuurlijke materialen zoals aluminium, messing, rvs, koper en Belgische blauwe steen uit Henegouwen, die onbehandeld blijven om een naadloze integratie in hun natuurlijke omgeving te garanderen.

Technische uitmuntendheid en onderscheidend design zijn de kernprioriteiten die de ontwikkeling en productie van onze armaturen sturen.

Deze editie van onze catalogus is meer dan een update van ons volledige verlichtingsassortiment; het weerspiegelt het gezamenlijke werk van onze onderzoeks-, ontwerp-, technische, productie- en marketingteams, die allemaal gedreven worden door een gedeelde toewijding aan innovatie en kwaliteit.

BEL LIGHTING, de meerwaarde aan het licht !

## FR

Fondée en 1991, BEL LIGHTING reste une entreprise familiale indépendante, fidèle à ses valeurs et à son esprit entrepreneurial. Aujourd'hui, la société emploie plus de quarante personnes sur son site de production à Mégara, en Grèce, ainsi qu'au siège et centre d'assemblage à Saintes, en Belgique.

En tant que concepteur et fabricant de solutions d'éclairage extérieur, BEL LIGHTING suit en permanence les évolutions technologiques du secteur pour offrir des solutions performantes et durables. À l'écoute des besoins spécifiques de ses partenaires dans le monde entier, l'entreprise développe et produit des solutions d'éclairage innovantes, adaptées aux exigences des projets privés et publics.

Nos produits et services bénéficient de certifications reconnues au niveau international, garantissant la qualité, la fiabilité et la conformité de nos luminaires aux normes applicables.

Nous fournissons à nos partenaires une documentation technique complète et de haute qualité, incluant des données photométriques validées par nos laboratoires. Cela permet des simulations d'éclairage précises et des décisions éclairées avant l'installation. Nos experts techniques offrent un accompagnement personnalisé pour des solutions sur mesure, travaillant main dans la main avec architectes et partenaires commerciaux pour donner vie à chaque projet, de la conception à la réalisation.

La conception, le développement et la fabrication sont réalisés entièrement en interne. Nous avons choisi de bâtir notre réputation sur une qualité sans compromis, c'est pourquoi nous utilisons exclusivement des matériaux de première qualité. Certains de nos produits sont fabriqués à partir de matériaux naturels tels que l'aluminium, le laiton, l'inox, le cuivre et la pierre bleue belge du Hainaut, laissés non traités pour assurer une intégration harmonieuse dans leur environnement naturel.

L'excellence technique et un design distinctif sont les priorités fondamentales qui guident le développement et la production de nos luminaires.

Cette édition de notre catalogue va bien au-delà d'une simple mise à jour de notre gamme complète de produits d'éclairage ; elle reflète le travail collectif de nos équipes de recherche, de conception, techniques, de production et marketing, toutes animées par un engagement commun envers l'innovation et la qualité.

BEL LIGHTING, la valeur ajoutée à la lumière !

## DE

Gegründet 1991, bleibt BEL LIGHTING ein unabhängiges Familienunternehmen, das seinen Werten und seinem unternehmerischen Geist treu bleibt. Heute beschäftigt das Unternehmen über vierzig Mitarbeiter an seinem Produktionsstandort in Megara, Griechenland, sowie an seinem Hauptsitz und Montagezentrum in Saintes, Belgien.

Als Designer und Hersteller von Außenbeleuchtung verfolgt BEL LIGHTING kontinuierlich technologische Entwicklungen in der Lichtbranche, um leistungsstarke und nachhaltige Lösungen anzubieten. Sensibel für die spezifischen Bedürfnisse seiner Partner weltweit entwickelt und produziert das Unternehmen innovative Beleuchtungslösungen, die den Anforderungen privater und öffentlicher Projekte entsprechen.

Unsere Produkte und Dienstleistungen profitieren von international anerkannten Zertifizierungen, die die Qualität, Zuverlässigkeit und Normkonformität unserer Leuchten gewährleisten.

Wir stellen unseren Partnern vollständige, hochwertige technische Dokumentation zur Verfügung, einschließlich photometrischer Daten, die von unseren Laboren validiert wurden. Dies ermöglicht präzise Lichtsimulationen und fundierte Entscheidungen vor der Installation. Unsere technischen Experten bieten individuelle Unterstützung für maßgeschneiderte Lösungen und arbeiten eng mit Architekten und Geschäftspartnern zusammen, um jedes Projekt von der Konzeption bis zur Fertigstellung zum Leben zu erwecken.

Design, Entwicklung und Fertigung erfolgen vollständig im eigenen Haus. Wir haben uns entschieden, unseren Ruf auf kompromisslose Qualität zu gründen, weshalb wir ausschließlich Materialien erster Wahl verwenden. Einige unserer Produkte werden aus natürlichen Materialien wie Aluminium, Messing, Edelstahl, Kupfer und belgischem Stein hergestellt, die unbehandelt bleiben, um eine nahtlose Integration in ihre natürliche Umgebung zu gewährleisten.

Technische Exzellenz und unverwechselbares Design sind die zentralen Prioritäten, die die Entwicklung und Produktion unserer Leuchten leiten.

Diese Ausgabe unseres Katalogs ist weit mehr als eine Aktualisierung unseres gesamten Beleuchtungssortiments; sie spiegelt die kollektive Arbeit unserer Forschungs-, Design-, Technik-, Produktions- und Marketingteams wider, die alle von einem gemeinsamen Engagement für Innovation und Qualität getragen werden.

BEL LIGHTING – Mehrwert für das Licht !

## GR

Η εταιρεία BEL LIGHTING ιδρύθηκε το 1991, παραμένει μια ανεξάρτητη οικογενειακή επιχείρηση, πιστή στις αξίες και το επιχειρηματικό της πνεύμα. Σήμερα, η εταιρεία απασχολεί περισσότερους από σαράντα εργαζόμενους στις εγκαταστάσεις παραγωγής της στα Μέγαρα, Ελλάδα, καθώς και στα κεντρικά γραφεία και το κέντρο συναρμολόγησης στις Saintes, Βέλγιο.

Ως σχεδιαστής και κατασκευαστής εξωτερικού φωτισμού, η BEL LIGHTING παρακολουθεί συνεχώς τις τεχνολογικές εξελίξεις στον τομέα του φωτισμού, προκειμένου να παρέχει υψηλής απόδοσης και βιώσιμες λύσεις. Προσεκτική στις ειδικές ανάγκες των συνεργατών της σε όλο τον κόσμο, η εταιρεία αναπτύσσει και παράγει καινοτόμες λύσεις φωτισμού, προσαρμοσμένες στις απαιτήσεις τόσο ιδιωτικών όσο και δημόσιων έργων.

Τα προϊόντα και οι υπηρεσίες μας επωφελούνται από διεθνώς αναγνωρισμένες πιστοποιήσεις, εξασφαλίζοντας την ποιότητα, την αξιοπιστία και τη συμμόρφωση των φωτιστικών μας με τα ισχύοντα πρότυπα.

Παρέχουμε στους συνεργάτες μας πλήρη, υψηλής ποιότητας τεχνική τεκμηρίωση, συμπεριλαμβανομένων φωτομετρικών δεδομένων επικυρωμένων από τα εργαστήριά μας. Αυτό επιτρέπει ακριβείς προσομοιώσεις φωτισμού και ασφαλή λήψη αποφάσεων πριν από την εγκατάσταση. Οι τεχνικοί μας σύμβουλοι προσφέρουν εξατομικευμένη υποστήριξη για λύσεις κατά παραγγελία, συνεργαζόμενοι στενά με αρχιτέκτονες και επιχειρηματικούς συνεργάτες για να ζωντανέψουν κάθε έργο, από τη σύλληψη έως την ολοκλήρωση.

Ο σχεδιασμός, η ανάπτυξη και η κατασκευή πραγματοποιούνται εξ ολοκλήρου εσωτερικά. Έχουμε επιλέξει να χτίσουμε τη φήμη μας πάνω σε αδιαπραγμάτευτη ποιότητα, γι' αυτό χρησιμοποιούμε αποκλειστικά υλικά πρώτης επιλογής. Ορισμένα από τα προϊόντα μας κατασκευάζονται από φυσικά υλικά, όπως αλουμίνιο, ορείχαλκο, ανοξείδωτο ατσάλι, χαλκό και βελγικό πέτρωμα, αφήνοντας τα μη επικαλυμμένα για να διασφαλιστεί η ομαλή ενσωμάτωσή τους στο φυσικό τους περιβάλλον.

Η τεχνική αριστεία και ο διακριτικός σχεδιασμός αποτελούν τις βασικές προτεραιότητες που καθοδηγούν την ανάπτυξη και παραγωγή των φωτιστικών μας.

Αυτή η έκδοση του καταλόγου μας είναι πολύ περισσότερα από μια απλή ενημέρωση της πλήρους γκάμας των προϊόντων μας· αντικατοπτρίζει τη συλλογική δουλειά των ομάδων μας έρευνας, σχεδιασμού, τεχνικής, παραγωγής και μάρκετινγκ, όλες καθοδηγούμενες από μια κοινή δέσμευση στην καινοτομία και την ποιότητα.

BEL LIGHTING, the value added to the light !

# www.bel-lighting.com

## FIND YOUR PRODUCT

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### **EN - EXPLORE OUR WEBSITE AND FIND THE PERFECT LUMINAIRE FOR YOUR PROJECT!**

Our website provides full access to all product information to help you quickly choose the luminaire that perfectly meets your needs. With our advanced search filters, you can instantly identify the products suited to your project.

Freely download our complete catalogue, detailed technical datasheets by reference, and assembly instructions to work with confidence. IES/LDT files allow you to perform accurate and realistic simulations to visualize your project before installation.

With a professional account, you also get direct access to our product prices, enabling you to plan and budget your projects with full transparency and efficiency.

**Explore our website and enjoy fast, complete access to everything you need for your lighting projects.**

### **NL - ONTDEK ONZE WEBSITE EN VIND DE PERFECTE ARMATUUR VOOR UW PROJECT!**

Onze website biedt volledige toegang tot alle productinformatie, zodat u snel de armatuur kunt kiezen die perfect aansluit bij uw wensen. Met onze geavanceerde zoekfilters vindt u in één oogopslag de producten die geschikt zijn voor uw project.

Download vrijelijk onze complete catalogus, gedetailleerde technische datasheets per referentie en montage-instructies om zonder zorgen te werken. IES/LDT-bestanden stellen u in staat realistische en nauwkeurige simulaties uit te voeren om uw project vóór de installatie te visualiseren.

Met een professioneel account heeft u ook directe toegang tot onze productprijzen, waardoor u uw projecten transparant en efficiënt kunt plannen en begroten.

**Blader door onze website en profiteer van snelle, volledige toegang tot alles wat u nodig heeft voor uw verlichtingsprojecten.**

### **FR - EXPLOREZ NOTRE SITE ET TROUVEZ LE LUMINAIRE IDÉAL POUR VOTRE PROJET !**

Notre site vous offre un accès complet à toutes les informations produits pour vous aider à choisir rapidement le luminaire qui correspond parfaitement à vos besoins. Grâce à nos filtres de recherche avancés, identifiez en un clin d'œil les produits adaptés à votre projet.

Téléchargez librement notre catalogue complet, nos fiches techniques détaillées par référence et les instructions de montage pour travailler en toute sérénité. Les fichiers IES/LDT vous permettent de réaliser des simulations réalistes et précises afin de visualiser votre projet avant l'installation.

Avec un compte professionnel, accédez directement aux tarifs de nos produits et planifiez vos projets avec transparence et efficacité.

**Naviguez sur notre site internet et profitez d'un accès rapide et complet à tout ce dont vous avez besoin pour vos projets d'éclairage.**

### **DE - ENTDECKEN SIE UNSERE WEBSITE UND FINDEN SIE DIE PERFEKTE LEUCHE FÜR IHR PROJEKT!**

Unsere Website bietet Ihnen vollständigen Zugriff auf alle Produktinformationen, damit Sie schnell die Leuchte auswählen können, die Ihren Anforderungen optimal entspricht. Mit unseren erweiterten Suchfiltern finden Sie im Handumdrehen die passenden Produkte für Ihr Projekt. Laden Sie unseren vollständigen Katalog, die detaillierten technischen Datenblätter pro Referenz sowie die Montageanleitungen jederzeit kostenlos herunter und arbeiten Sie sorgenfrei. IES/LDT-Dateien ermöglichen Ihnen realistische und präzise Simulationen, um Ihr Projekt vor der Installation zu visualisieren.

Mit einem Geschäftskonto haben Sie zudem direkten Zugriff auf unsere Produktpreise und können Ihre Projekte transparent und effizient planen.

**Navigieren Sie auf unserer Website und profitieren Sie von schnellem, vollständigem Zugriff auf alles, was Sie für Ihre Beleuchtungsprojekte benötigen.**

### **GR - ΕΞΕΡΕΥΝΗΣΤΕ ΤΟΝ ΙΣΤΟΤΟΠΟ ΜΑΣ ΚΑΙ ΒΡΕΙΤΕ ΤΟ ΙΔΑΝΙΚΟ ΦΩΤΙΣΤΙΚΟ ΓΙΑ ΤΟ ΕΡΓΟ ΣΑΣ!**

Ο ιστότοπός μας προσφέρει πλήρη πρόσβαση σε όλες τις πληροφορίες προϊόντων, για να σας βοηθήσει να επιλέξετε γρήγορα το φωτιστικό που ανταποκρίνεται τέλεια στις ανάγκες σας. Με τα προηγμένα φίλτρα αναζήτησής μας, μπορείτε αμέσως να εντοπίσετε τα προϊόντα που ταιριάζουν στο έργο σας.

Κατεβάστε ελεύθερα τον πλήρη κατάλογό μας, τα λεπτομερή τεχνικά δελτία ανά αναφορά και τις οδηγίες συναρμολόγησης για να εργαστείτε με ασφάλεια. Τα αρχεία IES/LDT σας επιτρέπουν να πραγματοποιείτε ακριβείς και ρεαλιστικές προσομοιώσεις, ώστε να οπτικοποιήσετε το έργο σας πριν από την εγκατάσταση.

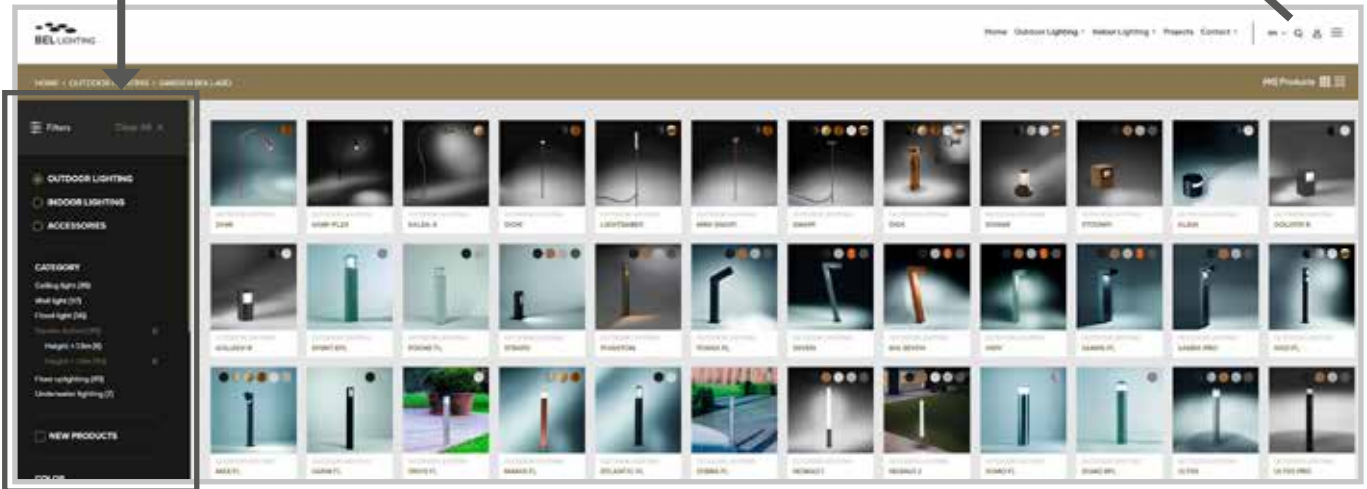
Με έναν επαγγελματικό λογαριασμό, έχετε επίσης άμεση πρόσβαση στις τιμές των προϊόντων μας, διευκολύνοντας τον προγραμματισμό και τον προϋπολογισμό των έργων σας με πλήρη διαφάνεια και αποτελεσματικότητα.

**Εξερευνήστε στον ιστότοπό μας και επωφεληθείτε από γρήγορη και πλήρη πρόσβαση σε όλα όσα χρειάζεστε για τα έργα φωτισμού σας.**

- by new products only
- by category
- by type of luminaire
- by type of lamps
- only for led: by voltage/current, Kelvin, Lumens, beam angle
- by color
- by IP degree
- .....



Filter area



### Product detail page



Filter area to find the exact product code to access downloads of:

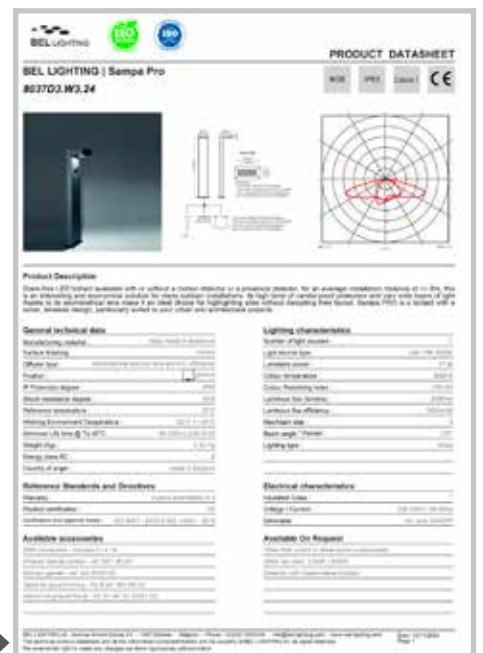
- Datasheet
- Instruction to use
- Photometrical data LDT / IES
- General informations
- ...



Additional filter for recessed floor lighting

- by recessed diameter
- by light repartition

Example of datasheet









STEP  
INTO  
THE  
LIGHT



# EXTERIOR - CEILING - RECESSED

**xxxmA**  
**LED**  
Constant current



Tini 1 30



Tini 2 30



Tini 3 30



Faki R 32



Faki K 32



Tekno 34



Poco S 36



Poco T 36



Paso 38



ifi S 40



ifi M 42



Beto mA 48

**220-240V**  
**LED**



Circo 44



Beto 230V 49

**220-240V**  
**GU10**



Banio 46



Beto GU 50



# EXTERIOR - WALL - RECESSED

**xxxmA**  
**LED**  
Constant current



Krypto 1 82



Krypto 2 84



Krypto 3 86



Yorka A 88



Yorka C 88



Yorka D 88



Yorka E 88



Yorka B 89



Yorka F 89



Hydro 90



Faki R 80



Faki K 80



ilva 92



Disco 98



Quadris 94



Ziko 96

# EXTERIOR - CEILING - SURFACE

xxxmA  
LED  
Constant  
current



Micro TR 52



Koba TR 54

220-240V  
LED



Micro TR 52



Koba TR 54



Jaka MT 56



Cylo TR 62



Paco 66



Soled 68



Welex C1 70



Welex C2 72



Mini Fanari P 74



Fanari P 76



Fanari PH 77

220-240V  
GU10/G9



Jaka GT 58



Max TR 60



Cube TR 64



Paco 66

# EXTERIOR - WALL - RECESSED

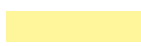
220-240V  
LED



Krypto 2 84



Krypto 3 86



NEW PRODUCT



HEAVILY MODIFIED PRODUCT

# EXTERIOR - WALL - SURFACE

xxxmA  
LED  
Constant  
current



Koba 1 106



Koba 2 107



Globe S 156



Mini Fanari 168

220-240V  
LED



Doombo 100



Stepan 102



Fly 104



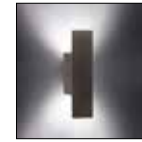
Koba 1 106



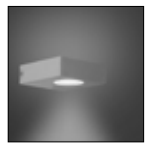
Koba 2 107



Cookie 1 108



Cookie 2 109



Fanfan 1 110



Fanfan 2 111



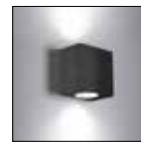
Moon 1 112



Moon 2 112



Okio 1 114



Okio 2 115



Keyko 122



Jaka S1 116



Jaka S2 116



Jaka S4 116



Jaka M1 118



Jaka M2 118



Jaka M4 118



Sampa D 124



Torga D 126



Sampa D-Pro 128



Omega 1 130



Wally S 132



Wally XL 134



Mini astro 1 136



Mini astro 2 137



Astro 1 138



Astro 2 140



Recto 2 140



Disk 150



Struggi 166



Mini Fanari 168



Fanari 170



Fly D 152



Cylo 1 160



Cylo 2 161



Cylo K1 162



Cylo K2 163



Cylo G1 164



Cylo G2 165



LightSaber D 154



Globe S 156



Globe M 158



Cobus A 190



Cobus B 190



Cobus C 190



Cobus D 190



Lotus A 196



Lotus B 196



Lotus C 196



Lotus D 198



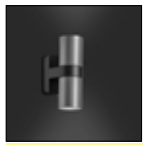
Lotus E 198

# EXTERIOR - WALL - SURFACE

## 220-240V GU10



Jaka GU1 120



Jaka GU2 120



Jaka GU4 120



Max 146



Teka 148



Cube 1L 142

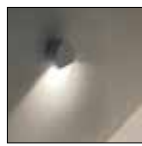


Cube Bis 142



Cube 2L 144

## 220-240V G9



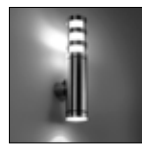
Doombo 100



Stepan 102



Manix G 174



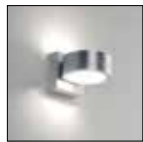
Zebra G 176



Atlantic G 178



Omega 1 130



Omega 2 130



Cobus A 190



Cobus B 190

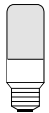


Cobus C 190



Cobus D 190

## 220-240V E27



Onyx D 172



Manix D 174



Zebra D 176



Atlantic D 178



Sumo D 180



Sumo RD 181



Spirit D 183



Spirit RD 182



Spirit KD 182



Poeme D 184



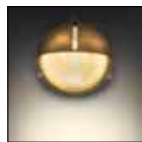
Cambridge A 186



Cambridge B 186



Marina O 188



Marina R 189



Octus O 194



Octus X 194



Lotus A 196



Lotus B 196



Lotus C 196



Lotus D 198



Lotus E 198



Mani R 192



NEW PRODUCT



HEAVILY MODIFIED PRODUCT



# EXTERIOR - FLOODLIGHT

xxxmA  
LED  
Constant  
current



Swing 202



Kozi S 204



Kozi S 204



Kozi S 204



Lena Pro S-A 214



Lena Pro M-A 218



Saturn HPL 250



Lena Pro S-B 216



Lena Pro S-B 216



Lena Pro S-B 216



Lena Pro S-B 216



Lena Pro M-B 220



Lena Pro M-B 220



Lena Pro M-B 220



Sami 208



Sami-flex 212



Kozi S 204



Lena Pro S-B 216



Lena Pro M-B 220



Zax-S 254



Saturn HPL 250

Special  
product



Line-Up 234



Line-Up 234

# EXTERIOR - FLOODLIGHT

## 220-240V LED



Maxima-50 226



Maxima-65 228



Maxima-100 230



Salsa 256



Salsa 256



Saturn Led 248



Saturn Led 248



Saturn HPL 252



Welex C1 236



Welex C2 238



Welex F1 240



Welex F2 242



Kozi FL 206



Maxima-50 226



Maxima-50 226



Maxima-65 228



Maxima-65 228



Maxima-100 230



Salsa-S 258

## 220-240V GU10



Cylinder-S 244



Cylinder-S 244



Lena GU-A 222



Lena GU-B 224



Lena-GU-B 224



Lena-GU-B 224



Maxima-GU 232



Cylinder-S 244



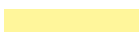
Max FL 246



Lena GU-B 224



Lena GU-B 224



NEW PRODUCT



HEAVILY MODIFIED PRODUCT



# EXTERIOR - GARDEN BOLLARD < 1,5M

**xxxmA  
LED  
Constant  
current**



Sami 262



Sami-flex 266



Dion 270



Mini Swapi 272



LightSaber 274



LightSaber 274



Sonar 280

**220-240V  
LED**



Salsa-S 268



Swapi 276



Disk 278



Stoumpi 282



Stoumpi 282



Alina 284



Strato 292



Phantom 294



Torga FL 296



Seven 300



Big Seven 302



Indy 304



Sampa FL 308



Sampa Pro 310



Kozi FL 316



Nomad 1 330



Nomad 2 332



Ulyss FL 334



Ulyss Pro 336

**220-240V  
G9 / GU10**



Alina 284

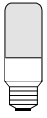


Max FL 318



# EXTERIOR - GARDEN BOLLARD < 1,5M

220-240V  
E27



Goliath R 286



Goliath K 286



Spirit K 288



Poeme FL 290



Sarm FL 320



Onyx FL 322



Manix FL 324



Zebra FL 326



Atlantic FL 328



Cambridge FL 350



Sumo FL 340



Sumo RFL 342



Spirit FL 344



Spirit RFL 346



Sabri FL 348



# EXTERIOR - GARDEN BOLLARD > 1,5M

220-240V  
LED



Torga L 354



Artist 356



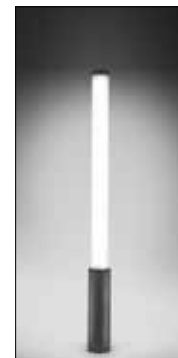
Sampa L1 358



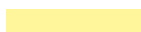
Sampa L2 360



Elyo FL 362



Nomad 1 364



NEW PRODUCT



HEAVILY MODIFIED PRODUCT



# EXTERIOR - FLOOR LIGHTING



## Floor uplighting - surface

**xxxmA  
LED**  
Constant current



Micro TR 370



Focus 374



Target 376

**220-240V  
LED**



Micro TR 370

**220-240V  
GU10**



MaxTR 372



## Floor - ground surface illumination - surface



**xxxmA  
LED**  
Constant current



Pharos V 390



Pharos V 390



Pharos H 390



Pharos X 390

100%  
useful light



# EXTERIOR - FLOOR LIGHTING



Floor - ground surface illumination - recessed



**xxxmA**  
**LED**  
Constant current

3,2W

Ø min: 32mm



Zona V 378



Zona H 380



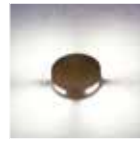
Zona X 380



Tango R-V 382



Tango R-H 382



Tango R-X 382



Tango K-V 384



Tango K-H 384



Tango K-X 384

from 11W  
to 17W

Ø min: 78mm



Bolas V 386



Bolas V 386



Bolas H 386



Bolas X 386

**220-240V**  
**LED**

from 1,1W  
to 6,4W

Ø min: 65mm



Pharos V 230V 392



Pharos V 230V 392



Pharos H 230V 392



Pharos X 230V 392

100%  
useful light

from 6W  
to 10W

Ø min: 78mm



Bolas V 230V 388



Bolas V 230V 388



Bolas H 230V 388



Bolas X 230V 388



NEW PRODUCT



HEAVILY MODIFIED PRODUCT

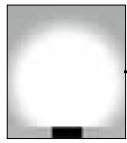


# EXTERIOR - FLOOR LIGHTING



## Floor uplighting - recessed

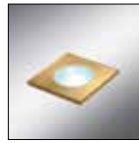
**xxxmA**  
**LED**  
Constant current



DIFFUSE

from 1,1W to 3,2W

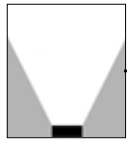
Ø min: 40mm



Genesis 394



Genesis 394



DIRECTIONAL

from 1,1W to 3,2W

Ø min: 32mm



Zona R 396



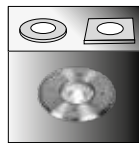
Zona R Dark 398



Zona S 400

from 1,1W to 6,5W

Ø min: 65mm



Zaxor Mini 412

from 6W to 9,5W

Ø min: 68mm



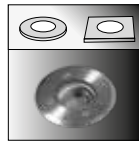
Perla-R Dark 408



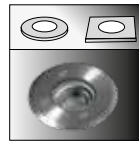
Perla-S Dark 410

from 3,2W to 24W

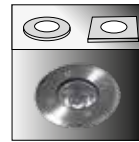
Ø min: 78mm to 100mm



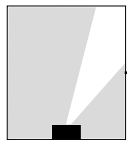
Bolas HPL 418



Zaxor Led 426



Zaxor 10° 430



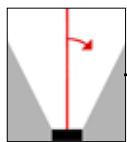
ASYMMETRIC

from 1,1W to 3,2W

Ø min: 45mm



Xeno Y 406



DIRECTIONAL ADJUSTABLE

from 1,1W to 3,2W

Ø min: 45mm



Xeno R 402



Xeno S 404

from 3,2W to 24W

Ø min: 100mm to 150mm



Zaxor Led-O 432



Bolas O-HPL 438



NEW PRODUCT

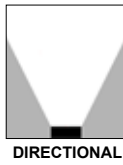
HEAVILY MODIFIED PRODUCT

# EXTERIOR - FLOOR LIGHTING



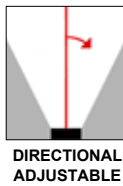
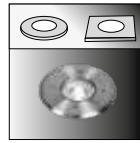
## Floor uplighting - recessed

220-240V  
LED



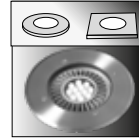
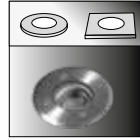
from 1,1W  
to 3,2W

Ø min: 65mm

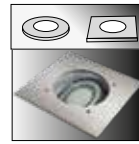


from 3,2W  
to 17W

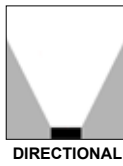
Ø min:  
78mm to 150mm



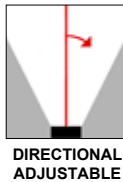
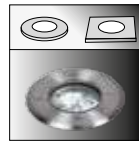
Ø min:  
100mm to 200mm



220-240V  
GU10



Ø min:  
78mm to 100mm



Ø min: 100mm

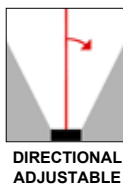
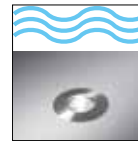
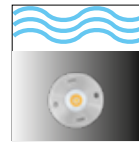
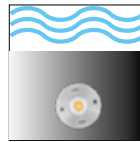
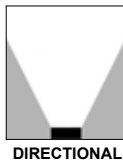


# EXTERIOR - UNDERWATER





## Underwater

xxxmA  
LED  
Constant  
current



THE  
VALUE  
ADDED  
TO  
THE  
LIGHT

# Exterior

<u>Ceiling light</u>	<u>Recessed - Surfaced mounted</u>	28	
<u>Wall light</u>	<u>Recessed - Surfaced mounted</u>	78	
<u>Flood light</u>	<u>Ceiling - Wall - Floor</u>	124	
<u>Garden bollard &lt; 1,5m</u>		260	
<u>Garden bollard &gt; 1,5m</u>		352	
<u>Floor lighting</u>		366	
<u>Floor uplighting - surface</u>		370	
<u>Floor - ground surface illumination</u>		378	
<u>Floor uplighting - recessed</u>		394	
<u>Underwater</u>		442	
<u>Accessories</u>		458	
<u>Accessories for flood light</u>		460	
<u>Accessories for wall light</u>		467	
<u>Accessories for garden light</u>		468	
<u>Accessories for recessed lighting</u>	<u>Wall-Floor</u>	474	
<u>Waterproof connection &amp; other</u>		476	
<u>Led power supply</u>		480	
<u>General Information</u>		486	





Circo



Exterior

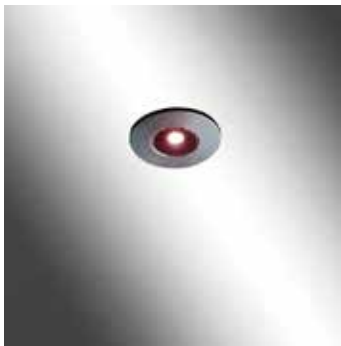
# Ceiling light

Ø min: 23mm

min: 35mm

# 350mA

## 1,1W



Tini 1



0.5

IP65

350mA

IK06



0.05



code: 401. XXX . XX  
led color



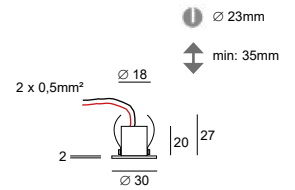
### LED

271 1,1W 2700K - 350mA  
301 1,1W 3000K - 350mA

4000K = on request

### COLOR

02A Anodized black  
32 Anodized aluminum  
34 Anodized matt gold



Tini 2



0.5

IP65

350mA

IK06



0.05



code: 402. XXX . XX  
led color



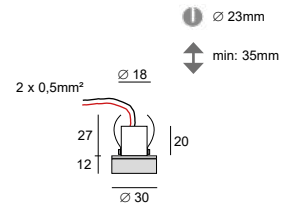
### LED

271 1,1W 2700K - 350mA  
301 1,1W 3000K - 350mA

4000K = on request

### COLOR

32 Anodized aluminum



Tini 3



0.5

IP65

350mA

IK06



0.05



code: 403. XXX . XX  
led color



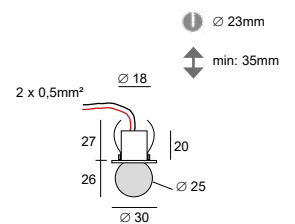
### LED

271 1,1W 2700K - 350mA  
301 1,1W 3000K - 350mA

4000K = on request

### COLOR

02A Anodized black  
32 Anodized aluminum  
34 Anodized matt gold



# Tini

## Led ceiling light



max.  
efficacy  
123lm/W

Typical luminous flux (lm)	
	1,1W
2700 K	115
3000 K	125
4000 K	135

### DESCRIPTION

Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Degree of protection IP65 - IK06

### ACCESSORIES

Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Recessed box - Pop 13 ref: X013  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other led color: 4000K  
Other dimensions (customized)  
Other cable length (customized)



Ø min: 32mm

↔ min: 30mm

# 350mA

## 1,1W - 3,2W



Faki R



Faki K



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK06



IP65  
350mA

IK06

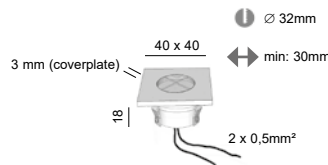
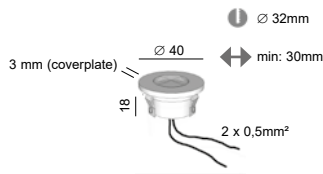


### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other material: brass / copper / stainless steel  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K



code: 8082R. **XXX** . **XX**  
led color



code: 8082K. **XXX** . **XX**  
led color



### LED

**D10** 1,1W - 4000K - 70°  
**D30** 3,2W - 4000K - 70°  
**W10** 1,1W - 2700K - 70°  
**W30** 3,2W - 2700K - 70°

2200K / 3000K / 5000K = on request

### COLOR

**00** Natural brushed aluminum  
**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**39** Grey  
**48** Dark grey (RAL 7016 structured)

max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# Faki

## Led ceiling light



Ø min: 32mm

min: 30mm

350mA  
1,1W - 3,2W



Tekno



IP65

350mA

IK09



#### DESCRIPTION

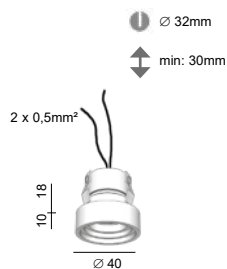
Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK09

#### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

#### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other material: brass / copper / stainless steel  
Other led color: 3000K / 5000K  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K



max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 8083R. XXX . XX  
led color



#### LED

**D10** 1,1W - 4000K - 70°  
**D30** 3,2W - 4000K - 70°  
**W10** 1,1W - 2700K - 70°  
**W30** 3,2W - 2700K - 70°

#### COLOR

**00** Natural brushed aluminum  
**01** White  
**39** Grey  
**48** Dark grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

# Tekno

## Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed

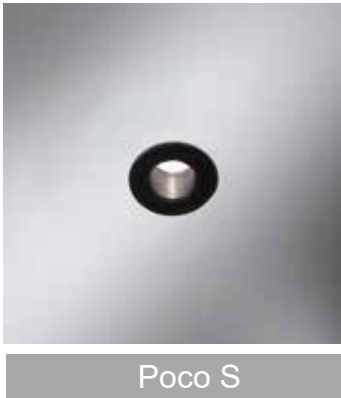


Ø min: 35mm

min: 55mm

# 350mA

1,1W - 3,2W



Poco S



IP65

350mA

IK06



code: 405. XXX . XX  
          led    color



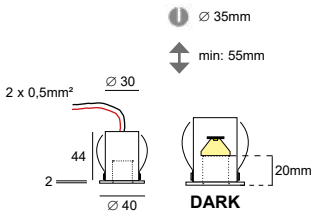
### LED

- 271 1,1W 20° 2700K
- 272 3,2W 20° 2700K
- 301 1,1W 20° 3000K
- 302 3,2W 20° 3000K

2200K / 4000K = on request

### COLOR

- 01 White
- 02A Anodized black
- 32 Anodized aluminum
- 33 Anodized bronze
- 34 Anodized matt gold
- 35 Anodized green
- 36 Anodized burgundy



Poco T



IP65

350mA

IK06



code: 404. XXX . XX  
          led    color



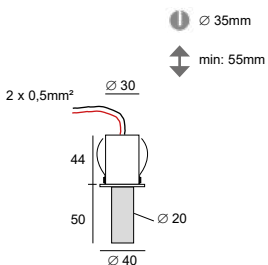
### LED

- 272 3,2W 2700K
- 302 3,2W 3000K

2200K / 4000K = on request  
1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request

### COLOR

- 01 White
- 02A Anodized black
- 32 Anodized aluminum
- 33 Anodized bronze
- 34 Anodized matt gold
- 35 Anodized green
- 36 Anodized burgundy



# Poco

## Led ceiling light



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Degree of protection IP65 - IK06

### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Painted in RAL colors  
Other led color: 2200K / 4000K  
Other dimensions (customized)  
Other cable length (customized)

max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410



Ø min: 45mm

min: 55mm

# 350mA

## 4,2W



Paso

### DESCRIPTION

Body made in solid aluminum  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK06



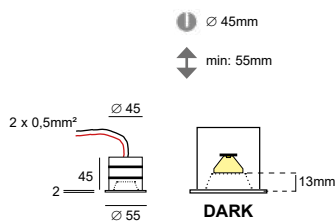
### ACCESSORIES

IP65 Recessed box - Pop 11a/11b ref: X015A / X015B  
Anti-glare honeycomb - Louver ref: X060.029.3  
350mA Led driver AC/CC 350mA  
IK06 Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083



### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)



code: 345. XX XXX . XX DIMMABLE  
led power color

max. efficacy 87lm/W

	Typical luminous flux (lm)	
	200mA 2,3W	350mA 4,2W
2700 K	190	310
3000 K	200	325
4000 K	200	325

### LED

27 2700K  
30 3000K

### POWER

410 4,2W - 10°  
440 4,2W - 40°

### COLOR

01 White  
02A Anodized black

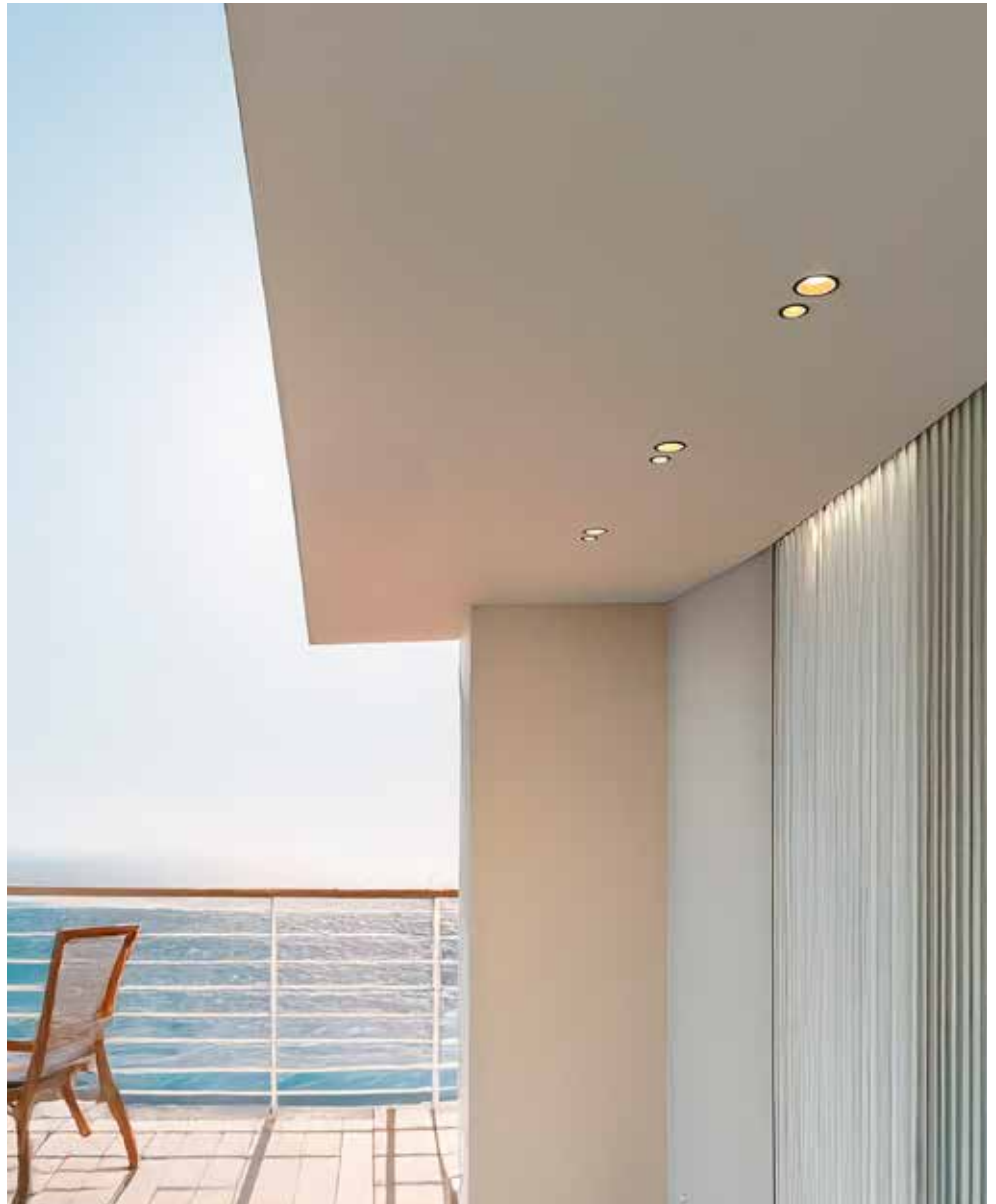
4000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Paso

Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



∅ min: 45mm

↑ min: 65mm

# 350mA

## 4,2W



ifi S

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Degree of protection IP65 - IK06



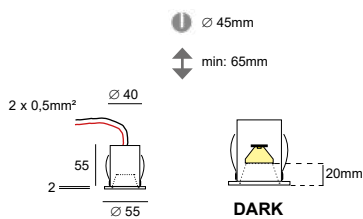
### ACCESSORIES

IP65 Recessed box - Pop 11a/11b ref: X015A / X015B  
Anti-glare honeycomb - Louver ref: X060.029.3  
350mA Led driver AC/CC 350mA  
IK06 Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083



### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)



max. efficacy 87lm/W

code: 406. XX XXX . XX DIMMABLE  
led power color

	Typical luminous flux (lm)	
	200mA 2,3W	350mA 4,2W
2700 K	190	310
3000 K	200	325
4000 K	200	325

### LED

27 2700K  
30 3000K

### POWER

410 4,2W - 10°  
440 4,2W - 40°

### COLOR

01 White  
02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

4000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# ifi S

## Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



Ø min: 68mm

min: 85mm

# 350mA - 500mA

## 6W - 9,5W



ifi M

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Degree of protection IP65 - IK06



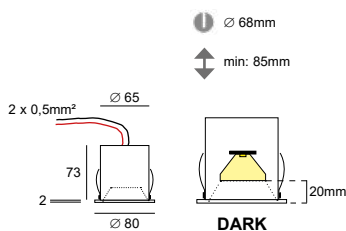
### ACCESSORIES

IP65 Recessed box - Pop 10a/10b ref: X054A / X054B  
Anti-glare honeycomb - Louver ref: X060.050.3  
500mA Led driver AC/CC 350mA  
IK06 Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083



### ON REQUEST

Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K  
Led 4W or 6W 230V 2700K / 3000K / 4000K  
Other cable length (customized)



max. efficacy  
141lm/W

code: 407. XX XXX . XX  
led power color  
DIMMABLE

	Typical luminous flux (lm)	
	350mA 6W	500mA 9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

### LED

27 2700K  
30 3000K

### POWER

910 9,5W - 10°  
925 9,5W - 25°  
940 9,5W - 40°

### COLOR

01 White  
02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

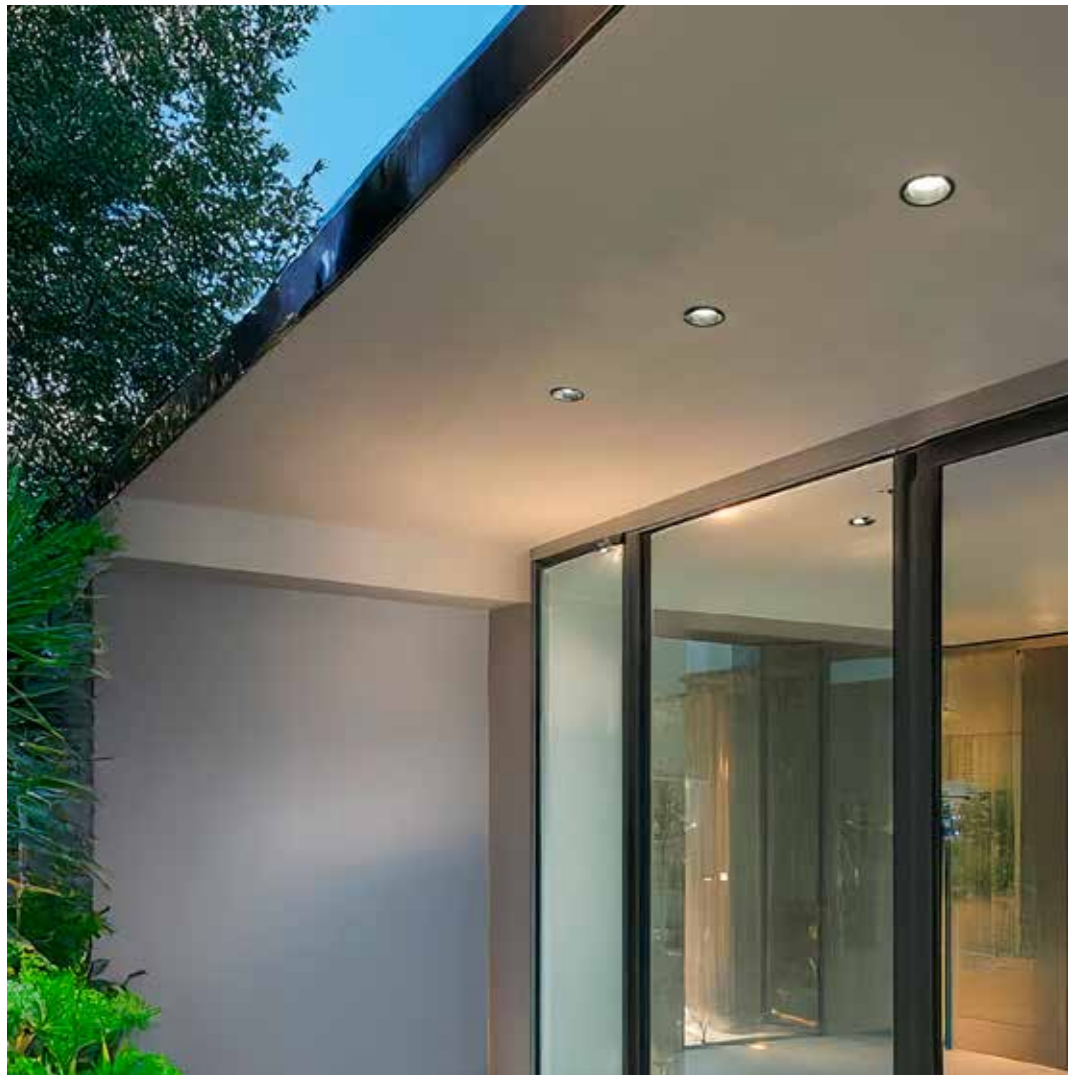
2200K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request  
4W or 6W 230V 2700K / 3000K / 4000K = on request

# ifi M

## Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



Ø min: 70mm

min: 70mm

# 350mA & 230V

## 3,2W - 11W



Circo



IP65

IK07



### DESCRIPTION

Body made in solid anodized aluminum  
 Cover plate 5mm in anodized aluminum or stainless steel  
 Degree of protection IP65 - IK07  
 Safety clear plexiglass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Class 1 (230V) or Class 3 (350mA)

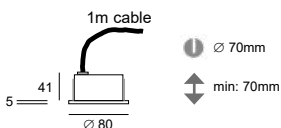
### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
 Recessed box - Pop 10a/10b ref: X054A / X054B  
 IP68 connection - Connex 2 / 3 / 4 / 6  
 Anti-glare honeycomb - Louver ref: X060.050.3

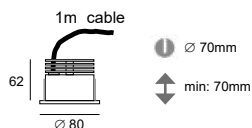
### ON REQUEST

Other cover plate dimensions (customized)  
 Other anodized color  
 Sandblasted plexiglass  
 Other led color: 2200K / 4000K / 5000K  
 Other beam angle: 15° / 50°

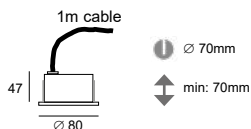
3,2W & 6W  
350mA



11W  
350mA



6W  
220-240V



max.  
efficacy  
142lm/W

	Typical luminous flux (lm)				
	220-240V		350mA		
	4W	6W	3,2W	6W	11W
2700 K	315	460	355	725	1350
3000 K	320	470	370	760	1400
4000 K	340	500	395	805	1480
5000 K			410	845	1540

code: 1165. XX XX . XX  
 led power color



### LED

27 2700K  
 30 3000K

### POWER

12 3,2W 350mA - 36°  
 22 6W 350mA - 36°  
 32 11W 350mA - 36°  
 62 6W 230V - 36°

### COLOR

02A Anodized black  
 04 Brushed stainless steel  
 32 Anodized aluminum

2200K / 4000K / 5000K = on request  
 Beam angle 15° / 50° = on request  
 4W 230V = on request

# Circo

Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



Ø min: 68mm

min: 75mm

12V  
GU5,3



Banio

#### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK06



#### ACCESSORIES

IP65

Recessed box - Pop 10a/10b ref: X054A / X054B

12V

Anti-glare honeycomb - Louver ref: X060.050.3

IK06

#### ON REQUEST

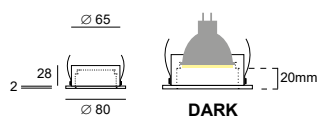


Other anodized color  
Painted in RAL colors  
Other dimensions (customized)



Ø 68mm

min: 75mm



DARK

code: 413. GX . XX

color



#### BULB

GX GU5,3 LED 12V

#### COLOR

02A Anodized black  
32 Anodized aluminum  
34 Anodized matt gold  
36 Anodized burgundy

# Banio

Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



Ø min: 75mm

min: 85mm

# 350mA & 230V

## 3,2W - 11W



Beto mA



IP65

350mA

IK06



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Degree of protection IP65 - IK06

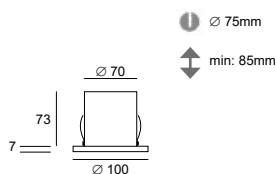
### ACCESSORIES

Recessed box - Standard box R50 ref: SB03  
Anti-glare honeycomb - Louver ref: X060.050.3  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K  
Other dimensions (customized)  
Sandblasted plexiglass

Compatible for use with standard concrete recessed box R50



Ø 75mm

min: 85mm

max. efficacy  
141lm/W

	Typical luminous flux (lm)		
	3,2W	6W	11W
2700 K	355	725	1350
3000 K	370	760	1400
4000 K	395	805	1480
5000 K	410	845	1540

code: 410. XX XXX . XX  
led power color



LED	POWER	COLOR
27 2700K	23 3,2W - 50° - 350mA	01 White
30 3000K	33 6W - 50° - 350mA	02A Anodized black
	43 11W - 50° - 350mA	32 Anodized aluminum
		34 Anodized matt gold

2200K / 4000K / 5000K = on request  
Beam angle 15° / 50° = on request



# Beto

## Led ceiling light



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06

### ACCESSORIES

Recessed box - Standard box R50 ref: SB03  
Anti-glare honeycomb - Louver ref: X060.050.3  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 4000K  
Other dimensions (customized)  
Sandblasted plexiglass



IP65

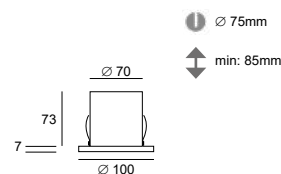
230V

IK06




Beto 230V

Compatible for use with standard concrete recessed box R50



max. efficacy 102lm/W

code: 411. XX XXX . XX 

led      power      color

### LED

**27** 2700K  
**30** 3000K

### POWER

**63** 6W - 50° - 230V  
**73** 10W - 50° - 230V

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**34** Anodized matt gold

4000K = on request  
Beam angle 15° / 50° = on request  
4W 230V = on request

	Typical luminous flux (lm)		
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

Ø min: 75mm

min: 85mm

230V  
GU10



Beto GU



IP65

230V

IK06



#### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK06

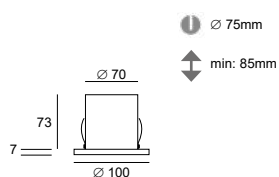
#### ACCESSORIES

Recessed box - Standard box R50 ref: SB03  
Anti-glare honeycomb - Louver ref: X060.050.3

#### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other dimensions (customized)  
Sandblasted plexiglass

Compatible for use with standard concrete recessed box R50



code: 412. GU . XX  
color



DIMMABLE

#### BULB

GU GU10 LED (max. height 60mm)

#### COLOR

01 White  
02A Anodized black  
32 Anodized aluminum  
34 Anodized matt gold

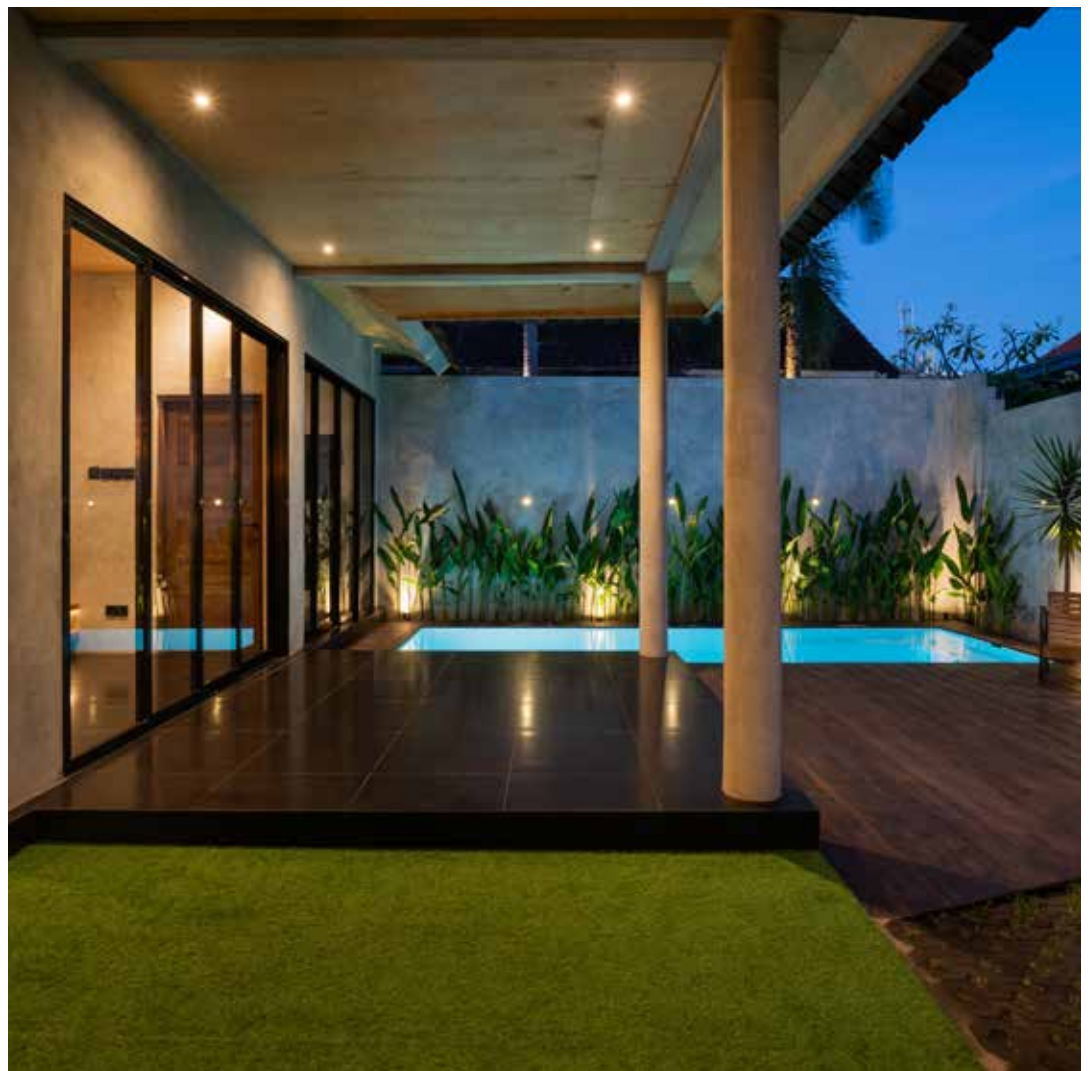


# Beto GU

Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Recessed



# 350mA & 230V

## 3,2W - 4W



Micro TR



IP65

IK09



### DESCRIPTION

Body made in solid aluminum or stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)

### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K  
Only for led 4W 230V : 3000K / 4000K



	Typical luminous flux (lm)	
	4W	3,2W
2700 K	315	355
3000 K	320	370
4000 K	340	395
5000 K		410

code: 1107. **XXX** . **XX**  
led color



### LED

**D32** 3,2W 350mA - 4000K - 70°  
**W03** 4W 230V - 2700K - 70°  
**W32** 3,2W 350mA - 2700K - 70°

### COLOR

**01** White  
**02** Black  
**04** Brushed stainless steel  
**32** Anodized aluminum

1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 3000K / 5000K = on request  
4W 230V 3000K / 4000K = on request

# Micro TR

Led ceiling light



# 350mA & 230V

## 3,2W - 4W



Koba TR



IP65  
IK09



### DESCRIPTION

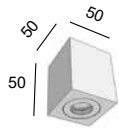
Body made in solid aluminum or stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)

### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K  
Only for led 4W 230V : 3000K / 4000K



max.  
efficacy  
128lm/W

	Typical luminous flux (lm)	
	4W	3,2W
2700 K	315	355
3000 K	320	370
4000 K	340	395
5000 K		410

code: 8047. **XXX** . **XX**  
led color DIMMABLE

### LED

**D32** 3,2W 350mA - 4000K - 70°  
**W03** 4W 230V - 2700K - 70°  
**W32** 3,2W 350mA - 2700K - 70°

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 3000K / 5000K = on request  
4W 230V 3000K / 4000K = on request

# Koba TR

## Led ceiling light



also available as wall lamp



# 230V

## 4W - 6W



Jaka MT



IP65

230V

IK07



### DESCRIPTION

Body made in solid anodized aluminum  
 Standard = two color (always black base)  
 Screws in stainless steel  
 Safety clear plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Degree of protection IP65 - IK07

### ACCESSORIES


Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Another anodized color combination  
 Painted in RAL colors  
 Other dimensions (customized)  
 Other led color: 4000K  
 Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
95lm/W

code: 379. **XX** **XXX** . **XX**   
           led   power   color

	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480

LED	POWER	COLOR
27	2700K	02A Anodized black / black
30	3000K	32 Anodized black / aluminum
	115 4W - 15°	33 Anodized black / bronze
	150 4W - 50°	34 Anodized black / matt gold
	215 6W - 15°	35 Anodized black / green
	250 6W - 50°	36 Anodized black / burgundy

4000K = on request  
 3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



# Jaka MT

## Led ceiling light



also available as wall lamp



# 230V GU10



Jaka GT



IP65

230V

IK07



## DESCRIPTION

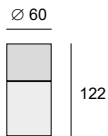
Body made in solid anodized aluminum  
Standard = two color (always black base)  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.050.3

## ON REQUEST

Another anodized color combination  
Painted in RAL colors  
Other dimensions (customized)



code: 389. GU . XX  
color



## BULB

GU GU10 LED (max. height 65mm)

## COLOR

**02A** Anodized black / black  
**32** Anodized black / aluminum  
**33** Anodized black / bronze  
**34** Anodized black / matt gold  
**35** Anodized black / green  
**36** Anodized black / burgundy

# Jaka GT

## Led ceiling light



also available as wall lamp

other dimensions = on request



# 230V GU10



## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety clear plexiglass



## ON REQUEST



Other RAL colors

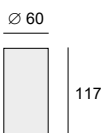
Other anodized color

IP65

Other dimensions (customized)

230V

IK09



code: 756. GU . **XX**  
color



## BULB

**GU** GU10 LED (max. height 58mm)

## COLOR

**00** Natural brushed aluminum  
**02** Black  
**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper  
**39** Grey

# Max TR

Led ceiling light



Photographie: Rizou Konstandinou

# 230V

## 6W



Cylo TR



IP65

230V

IK07




### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



code: 390. XXX . XX   
led color

max. efficacy 80lm/W

Typical luminous flux (lm)	
	6W
2700 K	460
3000 K	470
4000 K	480

### LED

- 272 6W 230V - 2700K
- 302 6W 230V - 3000K

### COLOR

- 01 White
- 02A Anodized black
- 32 Anodized aluminum
- 33 Anodized bronze
- 34 Anodized matt gold
- 35 Anodized green
- 36 Anodized burgundy

4000K = on request  
4W 230V 2700K / 3000K / 4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Cylo TR

Led ceiling light



also available as wall lamp



# 230V GU10



Cube TR



IP65

230V

IK04



## DESCRIPTION

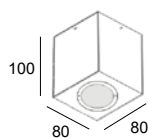
---

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK04  
Safety clear glass

## ON REQUEST

---

Other anodized color  
IK09 with clear or sandblasted safety plexiglass



code: 906.GU.XX

color



## BULB

---

**GU** GU10 LED (max. height 52mm)

## COLOR

---

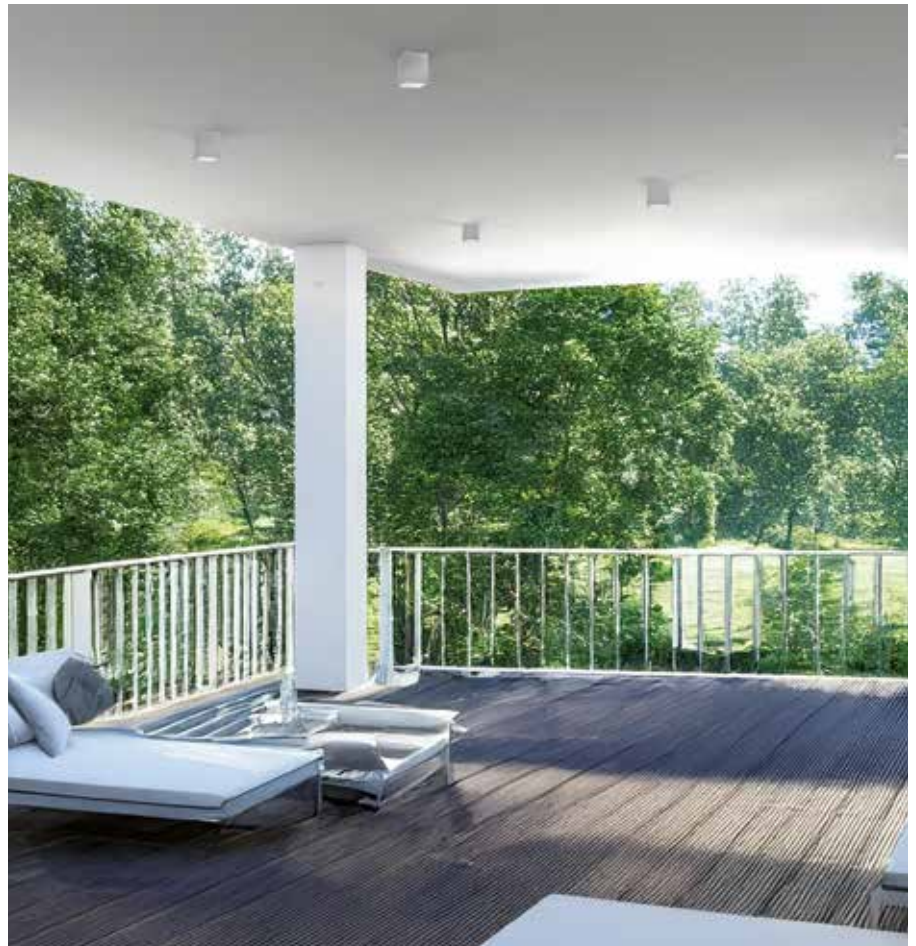
**02A** Anodized black  
**32** Anodized aluminum

# Cube TR

Led ceiling light



also available as wall lamp



# 230V G9 & Led 6W



Paco



IP65

230V

IK07



## DESCRIPTION

Body made in profile aluminum or stainless steel  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

## ON REQUEST

Painted in RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Other led color: 2700K / 4000K



code: 909SA. XX . XX

led bulb  
color



DIMMABLE

## LED / BULB

**G9** G9 LED (max. diameter 32mm / height 65mm)  
**W6** Led 6W 230V - 3000K

Led 6W 230V 2700K / 4000K = on request  
Led 4W 230V = on request

## COLOR

**02A** Anodized black  
**04** Brushed stainless steel  
**32** Anodized aluminum

max.  
efficacy  
99lm/W

	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480



# Paco

Led ceiling light



# 230V 6W - 10W



Soled



IP65

230V

IK07



## DESCRIPTION

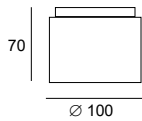
Body made in profile aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

## ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.068.3

## ON REQUEST

Other RAL colors  
Other anodized color  
Sandblasted plexiglass  
Other led color: 2700K / 4000K  
Other beam angle: 50°



	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

code: 8090. XX X . XX  
led  
°angle  
color



## LED

**W2** 6W - 3000K  
**W3** 10W - 3000K

## ANGLE

**1** Lens 15°  
**2** Lens 36°

## COLOR

**01** White  
**02** Black  
**32** Anodized aluminum

Led 2700K / 4000K = on request  
Led 6W / 11W 350mA 2200K / 2700K / 3000K / 4000K = on request

# Soled

## Led ceiling light



EXTERIOR LIGHTING  
CEILING LIGHT - Surface



# 230V 6W - 10W



Welex C1

## DESCRIPTION

Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

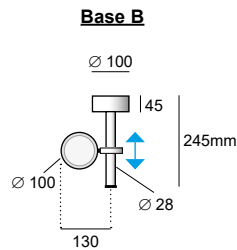
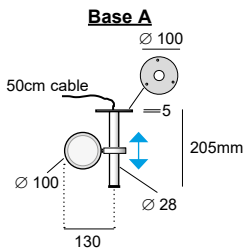
230V

IK06

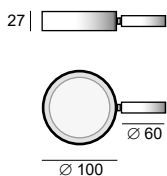


## ON REQUEST

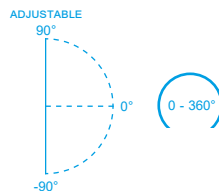
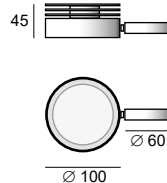
Another anodized color combination  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



### Spot 6W dimension



### Spot 10W dimension



max. efficacy  
102lm/W

code: 395 X . XXX . XX  
base led color  
DIMMABLE TRIAC

Typical luminous flux (lm)			
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

## TYPE OF BASE

- A** Base A = height 5mm  
**B** Base B = height 45mm

## LED

- 272** 6W 2700K - 230V  
**273** 10W 2700K - 230V  
**302** 6W 3000K - 230V  
**303** 10W 3000K - 230V

## COLOR

- 02A** Anodized black  
**34** Anodized matt gold  
**36** Anodized burgundy

4000K = on request

6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισμένων.

# Welex C1

Led ceiling light



also available as floor lamp



other color combination = on request



# 230V 12W - 20W



Welex C2

## DESCRIPTION

Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

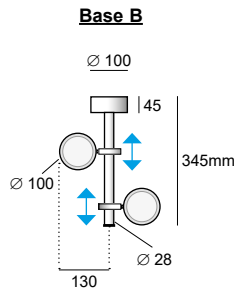
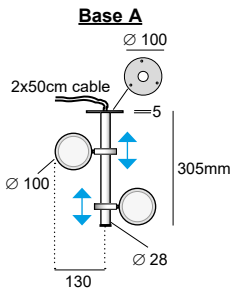
230V

IK06

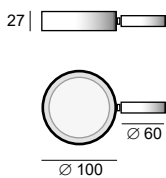


## ON REQUEST

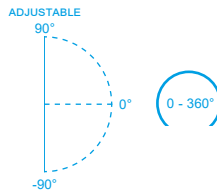
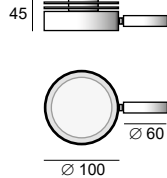
Another anodized color combination  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



### Spot 6W dimension



### Spot 10W dimension



code: 396 X . XXX . XX  
base led color



max. efficacy  
102lm/W

	Typical luminous flux (lm)		
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

## TYPE OF BASE

**A** Base A = height 5mm  
**B** Base B = height 45mm

## LED

**272** 2x 6W 2700K - 230V  
**273** 2x 10W 2700K - 230V  
**302** 2x 6W 3000K - 230V  
**303** 2x 10W 3000K - 230V

## COLOR

**02A** Anodized black  
**34** Anodized matt gold  
**36** Anodized burgundy

4000K = on request

6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισώσεων.

# Welex C2

Led ceiling light



also available as floor lamp



# 230V

## 1,1W - 3,2W



Mini Fanari P

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK06

### ON REQUEST

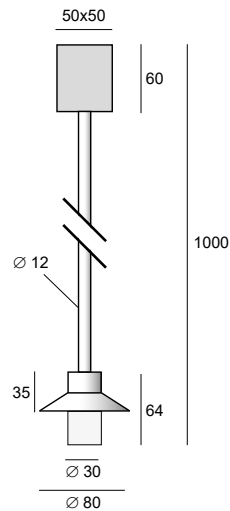
Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K  
Other dimensions (customized)



IP65

230V

IK06



code: 392. **XXX** . **XX**

led color

### LED

**272** 3,2W 2700K - 230V  
**302** 3,2W 3000K - 230V

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

2200K / 4000K / 5000K = on request

1,1W or 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodized finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδιώσεων.

# Mini Fanari P

Led ceiling light



also available as wall lamp





# Fanari P

# 230V 6W



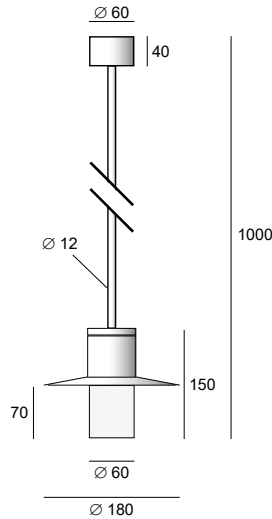
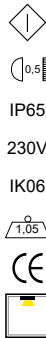
Fanari P

## DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06

## ON REQUEST

Other RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



also available as wall lamp



max. efficacy 80lm/W

Typical luminous flux (lm)	
	6W
2700 K	460
3000 K	470
4000 K	480

code: 391. XX . XX  
led color



## LED

27 6W 2700K - 230V  
30 6W 3000K - 230V

## COLOR

01 White  
02A Anodized black  
24 Corten  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισώσεων.

# 230V E27

# Fanari PH

## Led ceiling light



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK06  
Provided with 3m cable

### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other RAL colors



0,5

IP65

230V

IK06

1,10



Fanari PH

code: 391PH.E27. XX



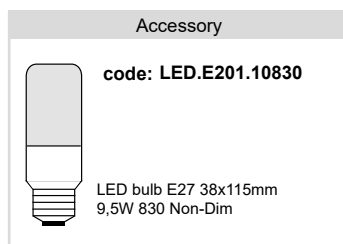
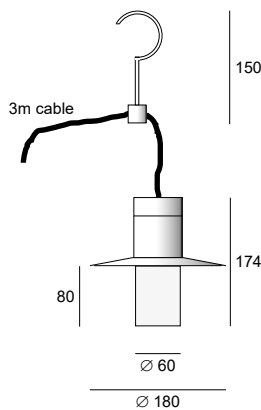
color

### BULB

E27 E27 LED (max. diameter 50mm / height 120mm)

### COLOR

- 01 White
- 02A Anodized black
- 24 Corten
- 32 Anodized aluminum
- 33 Anodized bronze
- 34 Anodized matt gold
- 35 Anodized green
- 36 Anodized burgundy



- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδειώσεων.



Yorka A



Astro 2

Exterior

Wall light

∅ min: 32mm

↔ min: 30mm

# 350mA

## 1,1W - 3,2W



Faki R



Faki K



### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK06



IP65

350mA

IK06

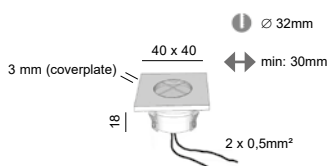
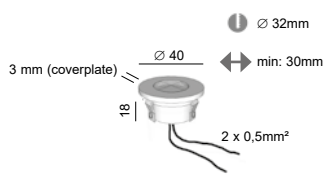


### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other material: brass / copper / stainless steel  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K



code: 8082R. **XXX** . **XX**  
led color



code: 8082K. **XXX** . **XX**  
led color



### LED

- D10 1,1W - 4000K - 70°
- D30 3,2W - 4000K - 70°
- W10 1,1W - 2700K - 70°
- W30 3,2W - 2700K - 70°

2200K / 3000K / 5000K = on request

### COLOR

- 00 Natural brushed aluminum
- 01 White
- 02A Anodized black
- 32 Anodized aluminum
- 33 Anodized bronze
- 39 Grey
- 48 Dark grey (RAL 7016 structured)

max. efficacy 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

### Accessory

#### X012

∅ 40 mm  
Length: 100mm



Pop 12

# Faki

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed

∅ min: 40mm

↔ min: 70mm

# 350mA

1,1W - 3,2W



Krypto 1



IP65

350mA

IK06



### DESCRIPTION

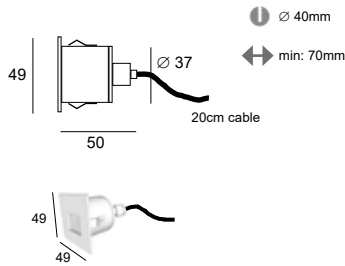
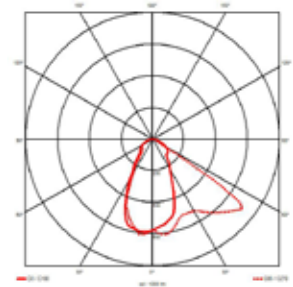
Body made in solid anodized aluminum  
Degree of protection IP65 - IK06  
Safety clear plexiglass  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm cable

### ACCESSORIES

Recessed box - Pop 3 ref: X053  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Sandblasted plexiglass  
Other led color: 2200K / 4000K / 5000K



max. efficacy 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 1187. XX X . XX

led  
power  
color



### LED

27 2700K  
30 3000K

### POWER

1 1,1W - 350mA  
2 3,2W - 350mA

### COLOR

02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze

2200K / 4000K / 5000K = on request

### Accessory

X053

∅ 45 mm  
Length: 55mm



Pop 3

# Krypto 1

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed

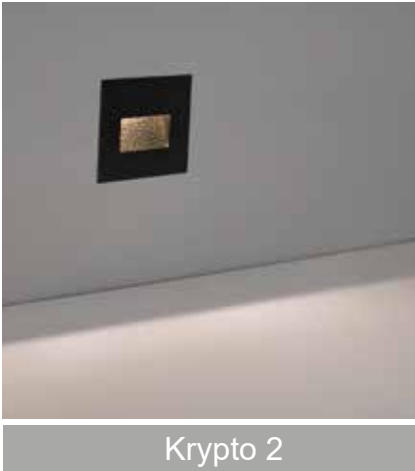


min: 82x82mm

min: 80mm (350mA)  
90mm (230V)

# 350mA & 230V

3,2W



Krypto 2

## DESCRIPTION

Body made in solid anodized aluminum  
Degree of protection IP65 - IK06  
Safety clear plexiglass  
Class 1 (230V) or Class 3 (350mA)  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm cable

## ACCESSORIES



IP65  
IK06

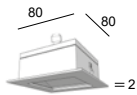
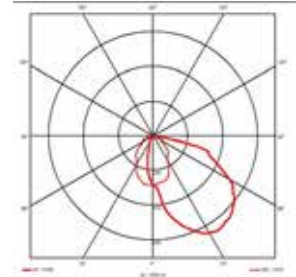
Recessed box - Krypto box 2 ref: X064  
Led driver 350mA CC (not for 230V model)



## ON REQUEST

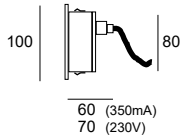
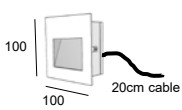


Other anodized color  
Painted in RAL colors  
Sandblasted plexiglass  
Other led color: 2200K / 4000K / 5000K



82x82mm

min: 80mm (350mA)  
90mm (230V)



max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 1188. XX XX . XX

led | power | color

## LED

27 2700K  
30 3000K

## POWER

2A 3,2W - 350mA  
2B 3,2W - 230V

## COLOR

02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze

2200K / 4000K / 5000K = on request  
1,2W 2700K / 3000K / 4000K / 5000K = on request

## Accessory

### X064

94x94 mm  
Length: 85mm



Krypto box 2


# Krypto 2


## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



 min: 82x42mm

 min: 80mm (350mA)  
95mm (230V)

# 350mA & 230V

## 3,2W



Krypto 3

### DESCRIPTION

Body made in solid anodized aluminum  
Degree of protection IP65 - IK06  
Safety clear plexiglass  
Class 1 (230V) or Class 3 (350mA)  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm cable

### ACCESSORIES



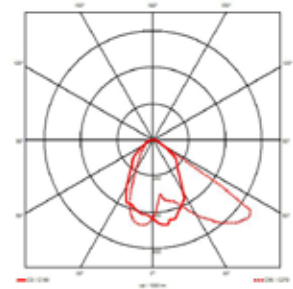
IP65  
IK06




Recessed box - Krypto box 3 ref: X065  
Led driver 350mA CC (not for 230V model)

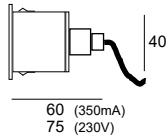
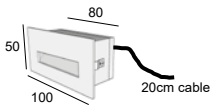
### ON REQUEST

Other anodized color  
Painted in RAL colors  
Sandblasted plexiglass  
Other led color: 2200K / 4000K / 5000K



 82x42mm

 min: 80mm (350mA)  
95mm (230V)



max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 1189. XX XX . XX  
          |      |      |  
          led power color

### LED

**27** 2700K  
**30** 3000K

### POWER

**2A** 3,2W - 350mA  
**2B** 3,2W - 230V

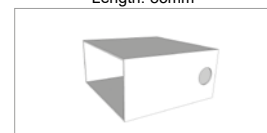
### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze

2200K / 4000K / 5000K = on request  
1,2W 2700K / 3000K / 4000K / 5000K = on request

### Accessory

**X065**  
94x46 mm  
Length: 85mm



Krypto box 3

# Krypto 3

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



Ø min: 50mm

↔ min: 50mm

350mA  
1,1W - 3,2W



Yorka A

code: 8010.XXX.XX



Yorka C

code: 8057.XXX.XX



Yorka D

code: 8058.XXX.XX



Yorka E

code: 8059.XXX.XX



# Yorka

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed

### DESCRIPTION

Body made in solid aluminum  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass  
IK09 only for model C/D/E/F  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm cable  
Coverplate with thickness 7mm or 9mm

### ACCESSORIES

To use with a standard box (depth minimum 50 mm)  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)

### ON REQUEST

Other RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Other led color: 3000K / 5000K  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K



IP65

350mA



Yorka B

Yorka F



code: 8011.XXX.X



code: 8060.XXX.XX

max.  
efficacy  
132lm/W

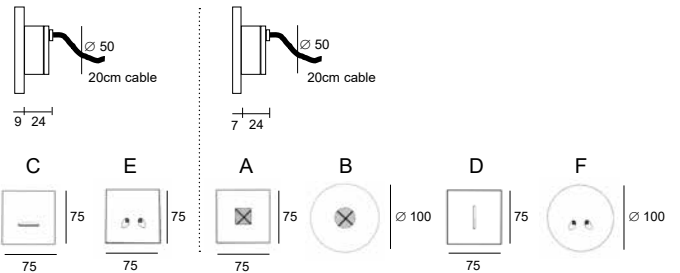
Typical luminous flux (lm)		
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

∅ 50mm

min: 50mm

fixing with 2 screws  
distances: 60mm

compatible for use with standard box



code: 80\_\_ . XXX . XX  
led color



### LED

**D11** 1,1W 350mA - 4000K  
**D31** 3,2W 350mA - 4000K  
**W11** 1,1W 350mA - 2700K  
**W31** 3,2W 350mA - 2700K

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum  
**39** Grey

2200K / 3000K / 5000K = on request

∅ min: 50mm

↔ min: 50mm

# 350mA

1,1W - 3,2W



Hydro



IP65

350mA

IK09



### DESCRIPTION

Body made in solid aluminum  
Coverplate with thickness 23mm  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm cable  
Degree of protection IP65 - IK09

### ACCESSORIES

To use with a standard box (depth minimum 50 mm)  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)

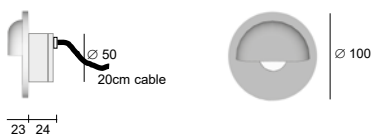
### ON REQUEST

Other RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Other led color: 3000K / 5000K  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K

∅ 50mm

↔ min: 50mm

fixing with 2 screws  
distances: 60mm



compatible for use with standard box



max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 8062. **XXX** . **XX**  
led color



### LED

**D11** 1,1W 350mA - 4000K  
**D31** 3,2W 350mA - 4000K  
**W11** 1,1W 350mA - 2700K  
**W31** 3,2W 350mA - 2700K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

# Hydro

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



∅ min: 50mm

↔ min: 40mm

# 350mA

1,1W - 3,2W



ilva



IP65

350mA

IK07



### DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK07

### ACCESSORIES

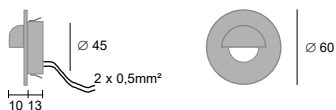
Recessed box - Pop 1a/1b ref: X016A / X016B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other led color: 4000K / 5000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)

∅ 50mm

↔ min: 40mm



max. efficacy 132lm/W

Typical luminous flux (lm)		
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 326. **XXX** . **XX**  
led color



### LED

- 127 1,1W 350mA - 2700K
- 130 1,1W 350mA - 3000K

### COLOR

- 02A Anodized black
- 04 Brushed stainless steel
- 07 Brushed brass
- 21 Brushed copper
- 32 Anodized aluminum
- 33 Anodized bronze

4000K / 5000K = on request  
3,2W 2200K / 2700K / 3000K / 4000K / 5000K = on request

Accessory

**X016A / X016B**  
∅ 55 mm  
X016A = Length 65mm  
X016B = Length 150mm

Pop 1

ilva  
Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



∅ min: 50mm

↔ min: 40mm

# 350mA

## 1,1W - 3,2W



Quadris

### DESCRIPTION

Body made in solid stainless steel  
Cover plate 3mm in stainless steel or brass  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)



IP65

350mA

IK07

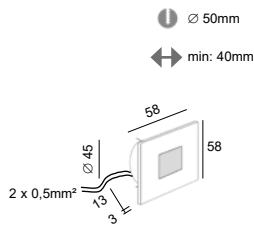


### ACCESSORIES

Recessed box - Pop 1a/1b ref: X016A / X016B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083


### ON REQUEST

Anodized color cover plate  
Other led color: 3000K / 5000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)



max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 1102. XXX . XX   
          led    color

### LED

**D11** 1,1W 350mA - 4000K  
**W11** 1,1W 350mA - 2700K

### COLOR

**04** Brushed stainless steel  
**07** Brushed brass

3000K / 5000K = on request  
3,2W 2200K / 2700K / 3000K / 4000K / 5000K = on request

Accessory

**X016A / X016B**  
∅ 55 mm  
X016A = Length 65mm  
X016B = Length 150mm



Pop 1

# Quadris

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



Ø min: 50mm

↔ min: 40mm

# 350mA

## 1,1W - 3,2W



Ziko

### DESCRIPTION

Body made in solid stainless steel  
Cover plate 3mm in stainless steel or brass  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)  
Degree of protection IP65 - IK07



IP65

350mA

IK07



### ACCESSORIES

Recessed box - Pop 1a/1b ref: X016A / X016B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

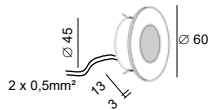
### ON REQUEST

Anodized color cover plate  
Other led color: 3000K / 5000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)



Ø 50mm

↔ min: 40mm



code: 1101. XXX . XX  
          led     color



max. efficacy 132lm/W

Typical luminous flux (lm)		
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

### LED

**D11** 1,1W 350mA - 4000K  
**W11** 1,1W 350mA - 2700K

### COLOR

**04** Brushed stainless steel  
**07** Brushed brass

3000K / 5000K = on request  
3,2W 2200K / 2700K / 3000K / 4000K / 5000K = on request

### Accessory

#### X016A / X016B

Ø 55 mm

X016A = Length 65mm

X016B = Length 150mm



Pop 1

# Ziko

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



Ø min: 50mm

↔ min: 40mm

# 350mA

## 1,1W - 3,2W



Disco

### DESCRIPTION

Body made in solid stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK08  
Safety sandblasted plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 20cm wire (2x 0,5mm<sup>2</sup>)



IP65

350mA

IK08

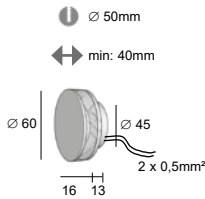


### ACCESSORIES

Recessed box - Pop 1a/1b ref: X016A / X016B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 4 ref: X083

### ON REQUEST

Anodized color cover plate  
Other led color: 3000K / 5000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)



max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 1155A. **XXX**.04  
led



### LED

**D11** 1,1W 350mA - 4000K  
**W11** 1,1W 350mA - 2700K

### COLOR

**04** Brushed stainless steel

3000K / 5000K = on request  
3,2W 2200K / 2700K / 3000K / 4000K / 5000K = on request

### Accessory

#### X016A / X016B

Ø 55 mm

X016A = Length 65mm

X016B = Length 150mm



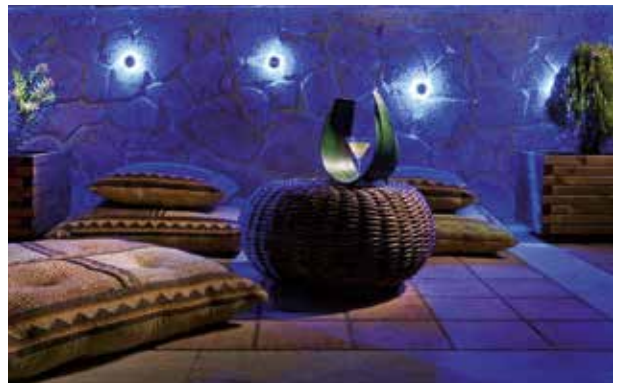
Pop 1

# Disco

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Recessed



# 230V G9 & Led 3,2W



Doombo



IP65

230V

IK08

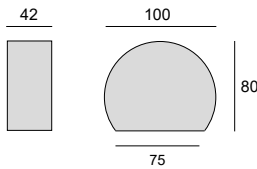


## DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK08

## ON REQUEST

Other RAL colors  
Other anodized color  
Other led color: 2200K / 4000K / 5000K



max.  
efficacy  
128lm/W

Typical luminous flux (lm)	
	3,2W
2700 K	355
3000 K	370
4000 K	395
5000 K	410

code: 339. XX . XX  
led/bulb color



## LED / BULB

- 27 Led 3,2W 230V - 2700K
- 30 Led 3,2W 230V - 3000K
- G9 G9 LED (max. diameter 32mm / height 46mm)

Led 3,2W 2200K / 4000K / 5000K = on request

## COLOR

- 01 White
- 02A Anodized black
- 24 Corten
- 32 Anodized aluminum
- 33 Anodized bronze
- 39 Grey
- 48 Dark Grey (RAL 7016 structured)

# Doombo

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V G9 & Led 6W



IP65

230V

IK08

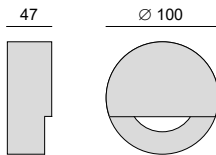


## DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK08

## ON REQUEST

Other RAL colors  
Other anodized color  
Other led color: 4000K / 5000K



code: 332. XX . XX  
led/bulb color



	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480

## LED / BULB

- 27** Led 6W 230V - 2700K
- 30** Led 6W 230V - 3000K
- G9** G9 LED (max. diameter 32mm / height 65mm)

Led 6W 4000K = on request  
Led 4W 2700K / 3000K / 4000K = on request

## COLOR

- 01** White
- 02A** Anodized black
- 24** Corten
- 32** Anodized aluminum
- 33** Anodized bronze
- 39** Grey
- 48** Dark Grey (RAL 7016 structured)

# Stepan

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 4W - 6W



Fly

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK09



IP65

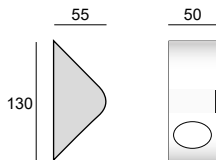
230V

IK09



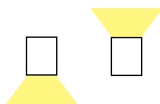
### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
95lm/W

code: 341. XXX . XX  
led color



	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480

### LED

**272** Led 4W 230V - 2700K  
**273** Led 6W 230V - 2700K  
**302** Led 4W 230V - 3000K  
**303** Led 6W 230V - 3000K

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

4W or 6W 230V 4000K = on request

3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Fly

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



as bollard = on request

# 350mA & 230V

## 3,2W - 8W



Koba 1



IP65  
IK09



### DESCRIPTION

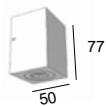
Body made in solid aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)

### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K  
Only for led 4W 230V : 3000K / 4000K



	Typical luminous flux (lm)	
	4W	3,2W
2700 K	315	355
3000 K	320	370
4000 K	340	395
5000 K		410

code: 8045 . XXX . XX  
          |          |  
          led      color



### LED

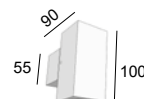
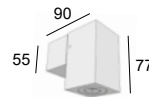
- D32** 3,2W 350mA - 4000K - 70°
- W03** 4W 230V - 2700K - 70°
- W32** 3,2W 350mA - 2700K - 70°

### COLOR

- 01** White
- 02** Black
- 32** Anodized aluminum
- 39** Grey
- 48** Dark Grey (RAL 7016 structured)

1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 3000K / 5000K = on request  
4W 230V 3000K / 4000K = on request

With square base = on request



# Koba

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)

### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K  
Only for led 4W 230V : 3000K / 4000K



IP65

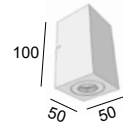
IK09



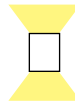
Koba 2



max. efficacy  
128lm/W



code: 8049 . XXX . XX  
          led       color



	Typical luminous flux (lm)	
	2x 4W	2x 3,2W
2700 K	2x 315	2x 355
3000 K	2x 320	2x 370
4000 K	2x 340	2x 395
5000 K		2x 410

### LED

**D32** 2 x 3,2W 350mA - 4000K - 70°  
**W03** 2 x 4W 230V - 2700K - 70°  
**W32** 2 x 3,2W 350mA - 2700K - 70°

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 3000K / 5000K = on request  
4W 230V 3000K / 4000K = on request



# 230V

## 4W - 8W



Cookie 1

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07



IP65

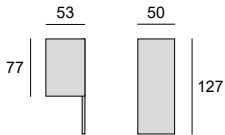
230V

IK07



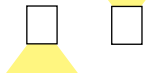
### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
85lm/W

code: 323. XXX . XX  
led color



Typical luminous flux (lm)	
4W	
2700 K	315
3000 K	320
4000 K	340

### LED

**271** 4W - 2700K - 70°  
**301** 4W - 3000K - 70°

### COLOR

**01** White  
**02** Black  
**24** Corten  
**39** Grey  
**48** Dark grey (RAL 7016 textured)

4W 230V 4000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Cookie

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



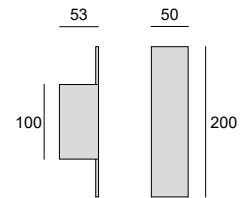
IP65

230V

IK07



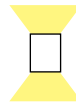
Cookie 2



max. efficacy  
83lm/W

Typical luminous flux (lm)	
	2x 4W
2700 K	2x 315
3000 K	2x 320
4000 K	2x 340

code: 324. XXX . XX  
          led       color



### LED

271 2x 4W - 2700K - 70°  
301 2x 4W - 3000K - 70°

### COLOR

01 White  
02 Black  
24 Corten  
39 Grey  
48 Dark grey (RAL 7016 textured)

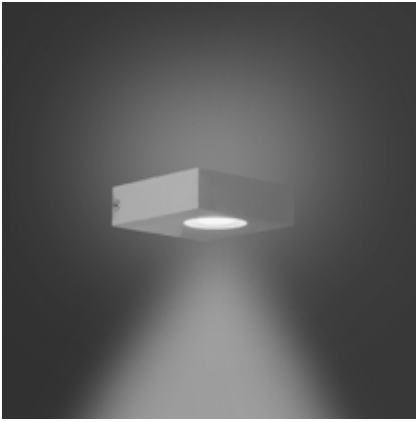
4W 230V 4000K = on request

3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



# 230V

## 4W - 8W



Fanfan 1

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07



IP65

230V

IK07



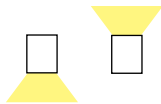
### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
99lm/W

code: 327. XXX . XX  
          led     color



	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480

### LED

**272** 4W - 2700K - 70°  
**273** 6W - 2700K - 70°  
**302** 4W - 3000K - 70°  
**303** 6W - 3000K - 70°

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

4W 230V 4000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

with ball d.97mm = on request



# Fanfan

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



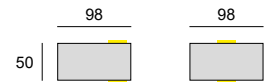
Fanfan 2



IP65

230V

IK07



max. efficacy  
85lm/W

code: 328. XXX . XX  
          led       color



Typical luminous flux (lm)	
2x 4W	
2700 K	2x 315
3000 K	2x 320
4000 K	2x 340

### LED

**272** 2x 4W - 2700K - 70°  
**302** 2x 4W - 3000K - 70°

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

4W 230V 4000K = on request

3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# 230V

## 4W - 8W



IP65

230V

IK07

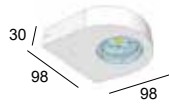


### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10

### ON REQUEST

Painted in RAL colors  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max. efficacy 95lm/W

Typical luminous flux (lm)		
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480



### LED

**272** 4W - 2700K - 70°  
**273** 6W - 2700K - 70°  
**302** 4W - 3000K - 70°  
**303** 6W - 3000K - 70°

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze

3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



IP65

230V

IK07

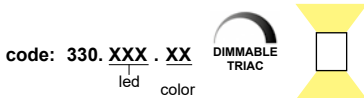
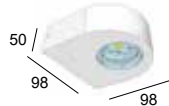


### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10

### ON REQUEST

Painted in RAL colors  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



### LED

**272** 2x 4W - 2700K - 70°  
**302** 2x 4W - 3000K - 70°

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze

3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Moon

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 3,2W - 6,4W



Okio 1



IP65

230V

IK09



### DESCRIPTION

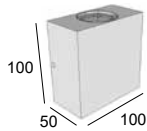
Body made in solid aluminum  
Screws in stainless steel  
Safety plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

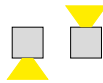
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V



code: 8041. **XXX** . **XX**  
          led     color



Typical luminous flux (lm)	
3,2W	
2700 K	355
3000 K	370
4000 K	395
5000 K	410

### LED

**D40** 3,2W - 4000K - 70°  
**W40** 3,2W - 2700K - 70°

2200K / 3000K / 5000K = on request

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

# Okio

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V



Okio 2



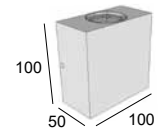
0,5

IP65

230V

IK09

1,00



max.  
efficacy  
128lm/W

code: 8041. XXX . XX  
          led     color



Typical luminous flux (lm)	
2x 3,2W	
2700 K	2x 355
3000 K	2x 370
4000 K	2x 395
5000 K	2x 410

### LED

**D80** 2 x 3,2W - 4000K - 70°  
**W80** 2 x 3,2W - 2700K - 70°

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request



# 230V

## 4,2W - 16,8W



Jaka S1



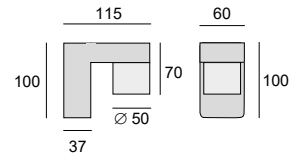
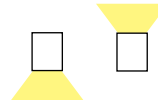
IP65

230V

IK07



code: 370. XX XXX . XX  
           led power color



### LED

27 2700K  
30 3000K

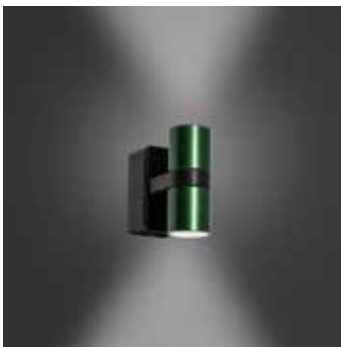
### POWER

110 4,2W - 10°  
140 4,2W - 40°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy

4000K = on request



Jaka S2



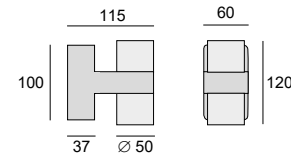
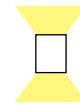
IP65

230V

IK07



code: 371. XX XXX . XX  
           led power color



### LED

27 2700K  
30 3000K

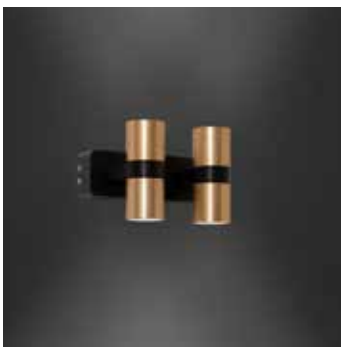
### POWER

110 8,4W (2x 4,2W) - 10°  
140 8,4W (2x 4,2W) - 40°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy

4000K = on request



Jaka S4



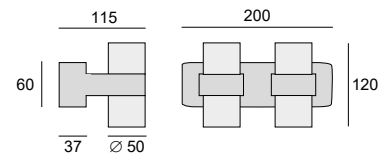
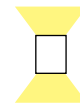
IP65

230V

IK07



code: 373. XX XXX . XX  
           led power color



### LED

27 2700K  
30 3000K

### POWER

110 16,8W (4x 4,2W) - 10°  
140 16,8W (4x 4,2W) - 40°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy

4000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισίσεων.

# Jaka S

## Led wall light



### DESCRIPTION

Body made in solid anodized aluminum  
Standard = two color (always black base)  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK07

### ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.029.3

### ON REQUEST

Another anodized color combination  
Painted in RAL colors  
Other dimensions (customized)  
Other led color: 4000K

max.  
efficacy  
77lm/W

Typical luminous flux (lm)	
	4,2W
2700 K	310
3000 K	325
4000 K	325



# 230V

## 4W - 16W



Jaka M1



IP65

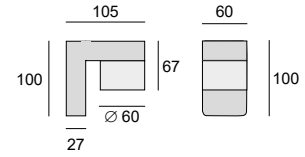
230V

IK07



code: 375. XX XXX . XX DIMMABLE TRIAC

led power color



### LED

27 2700K  
30 3000K

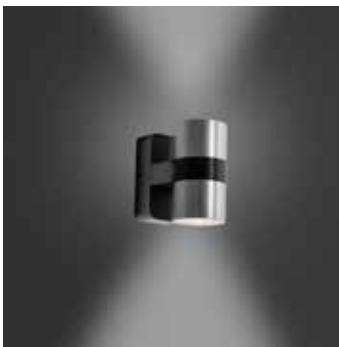
36° = on request  
4000K = on request

### POWER

115 4W - 15°  
150 4W - 50°  
215 6W - 15°  
250 6W - 50°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy



Jaka M2



IP65

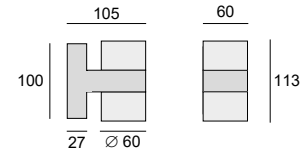
230V

IK07



code: 376. XX XXX . XX DIMMABLE TRIAC

led power color



### LED

27 2700K  
30 3000K

36° = on request  
4000K = on request

### POWER

115 8W (2x 4W) - 15°  
150 8W (2x 4W) - 50°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy



Jaka M4



IP65

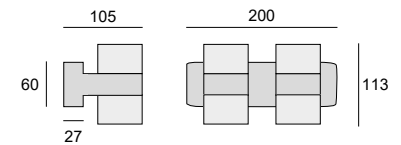
230V

IK07



code: 378. XX XXX . XX DIMMABLE TRIAC

led power color



### LED

27 2700K  
30 3000K

36° = on request  
4000K = on request

### POWER

115 16W (4x 4W) - 15°  
150 16W (4x 4W) - 50°

### COLOR

02A Anodized black / black  
32 Anodized black / aluminum  
33 Anodized black / bronze  
34 Anodized black / matt gold  
35 Anodized black / green  
36 Anodized black / burgundy

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
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# Jaka M

## Led wall light



### DESCRIPTION

Body made in solid anodized aluminum  
Standard = two color (always black base)  
Screws in stainless steel  
Safety clear plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ACCESSORIES

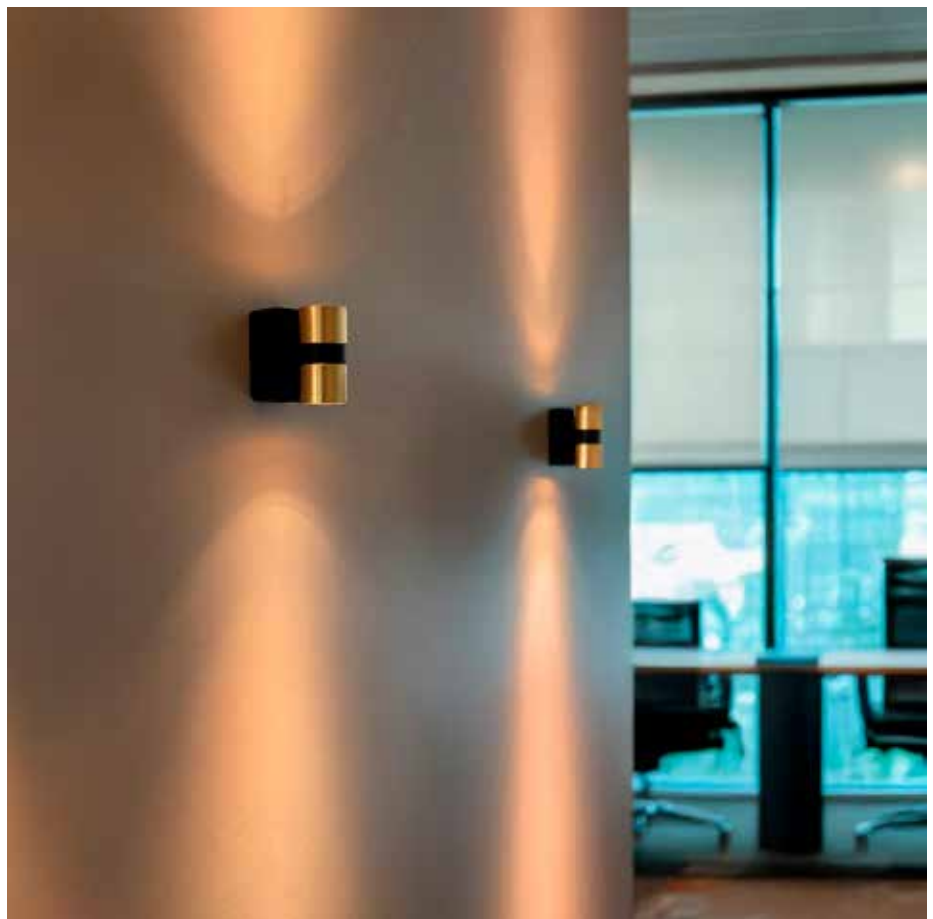
Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Another anodized color combination  
Painted in RAL colors  
Other dimensions (customized)  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K

max.  
efficacy  
99lm/W

	Typical luminous flux (lm)	
	4W	6W
2700 K	315	460
3000 K	320	470
4000 K	340	480



# 230V GU10



Jaka GU1



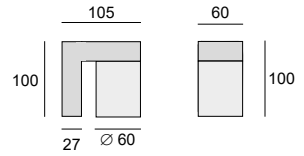
IP65

230V

IK07



code: 385. XX . XX  
bulb color

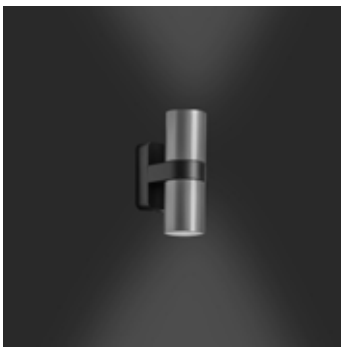


## BULB

**GU** GU10 LED (max. height 65mm)

## COLOR

- 02A** Anodized black / black
- 32** Anodized black / aluminum
- 33** Anodized black / bronze
- 34** Anodized black / matt gold
- 35** Anodized black / green
- 36** Anodized black / burgundy



Jaka GU2



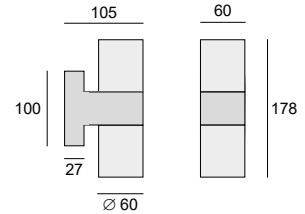
IP65

230V

IK07



code: 386. XX . XX  
bulb color



## BULB

**GU** 2 x GU10 LED (max height 65mm)

## COLOR

- 02A** Anodized black / black
- 32** Anodized black / aluminum
- 33** Anodized black / bronze
- 34** Anodized black / matt gold
- 35** Anodized black / green
- 36** Anodized black / burgundy



Jaka GU4



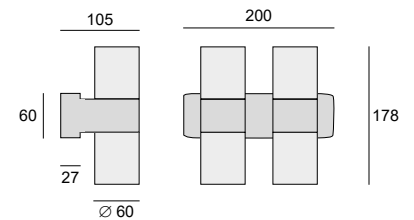
IP65

230V

IK07



code: 388. XX . XX  
bulb color



## BULB

**GU** 4 x GU10 LED (max height 65mm)

## COLOR

- 02A** Anodized black / black
- 32** Anodized black / aluminum
- 33** Anodized black / bronze
- 34** Anodized black / matt gold
- 35** Anodized black / green
- 36** Anodized black / burgundy

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισίσεων.

# Jaka GU

## Led wall light



### DESCRIPTION

Body made in solid anodized aluminum  
Standard = two color (always black base)  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK07

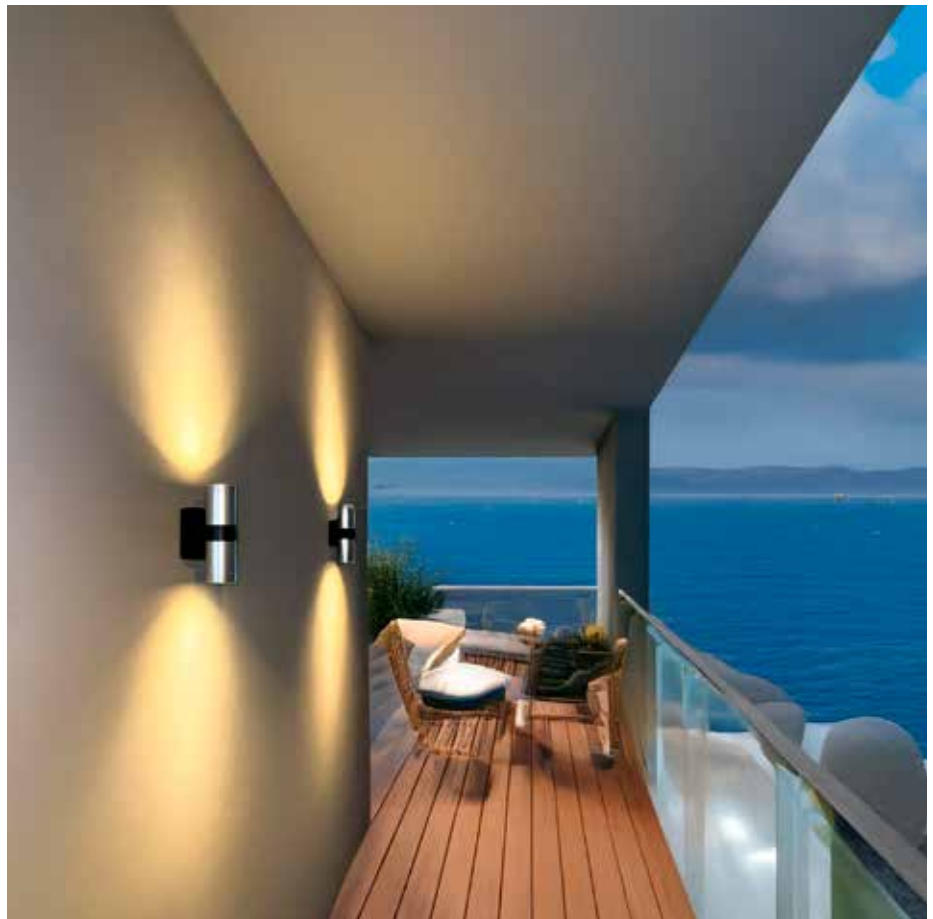
### ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Another anodized color combination  
Painted in RAL colors  
Other dimensions (customized)

Other customized dimensions = on request



# 230V

## 6W - 9,5W



Keyko



IP65

230V

IK09

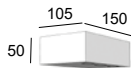


### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Power supply 220-240V incorporated  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK09

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Led 9,5W : 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Other dimensions (customized)



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 8056.1 **XXX** . **XX**  
          |          |  
          led   color



### LED

**D37** 6W - 4000K  
**W37** 6W - 2700K

### COLOR

**01** White  
**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

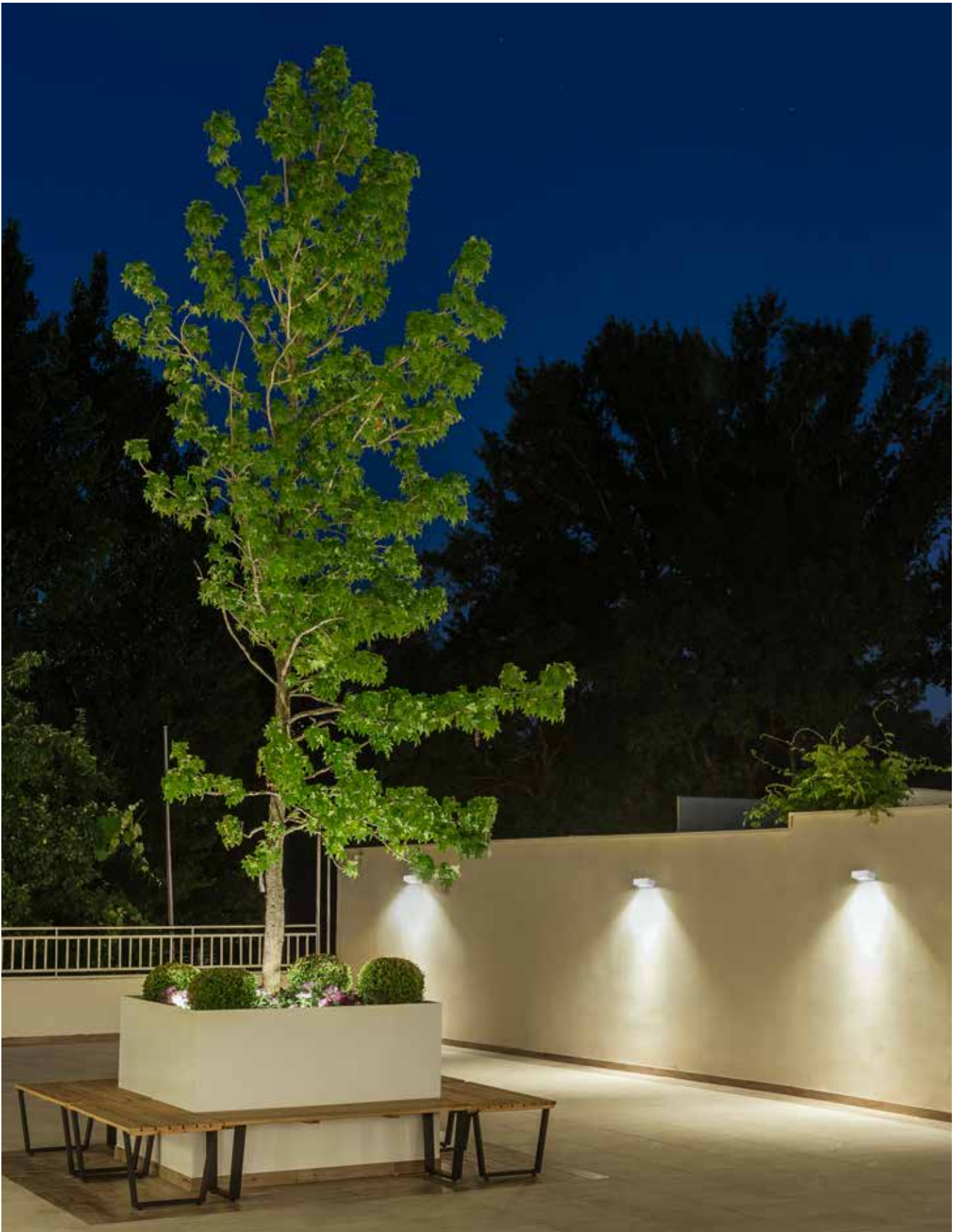
2200K / 3000K / 5000K = on request  
9,5W 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Keyko

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W - 9,5W



Sampa D

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09



IP65

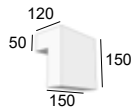
230V

IK09



### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Led 9,5W : 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Other dimensions (customized)



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 8036.1 XXX . XX  
          led       color



### LED

**D37** 6W - 4000K  
**W37** 6W - 2700K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request  
9,5W 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Sampa D

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W - 9,5W



Torga D

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09



IP65

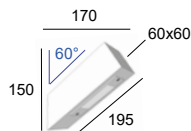
230V

IK09



### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Led 9,5W : 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Other dimensions (customized)



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 8008.1 XXX . XX  
          |          |  
          led      color



### LED

**D37** 6W - 4000K  
**W37** 6W - 2700K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request  
9,5W 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Torga D

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

Also available as a garden bollard.



# 230V

## 6W - 17W



Sampa D-Pro

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Asymmetrical silicone lens anti-UV, efficiency 89%  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK08



IP65

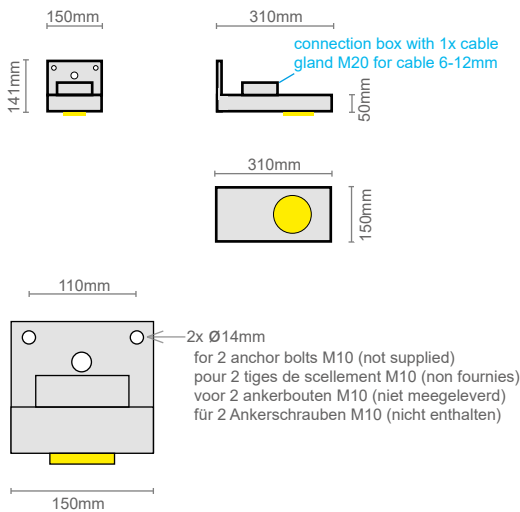
230V

IK08



### ON REQUEST

Other RAL colors or dimensions (customized)  
Other led color: 2200K / 2700K / 5000K  
Led 6W or 34W: 2200K / 2700K / 3000K / 4000K / 5000K  
Other Lens (symmetrical 100°)  
Motion detector (around 8m)



code: 7020P1. **XX** . **XX**  
led color



### LED

**N2** 11W - 4000K  
**N3** 17W - 4000K  
**W2** 11W - 3000K  
**W3** 17W - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 2700K / 5000K = on request

6W or 34W : 2200K / 2700K / 3000K / 4000K / 5000K = on request

max. efficacy  
142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

# Sampa D-Pro

## Led wall light

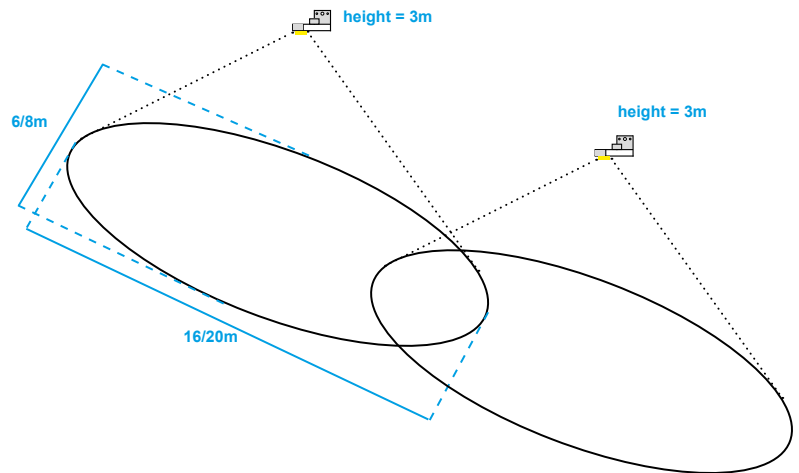


### Applications

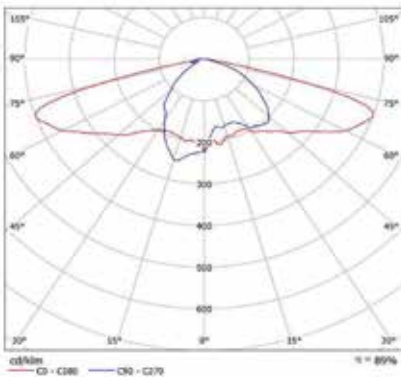
- Footpath
- Car park
- Park
- Building entrance
- Bicycle path
- PRM area

### Advantages

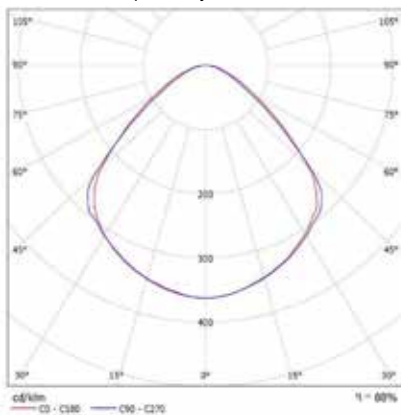
- Timeless design & robust (IK08)
- Lighting level conforms to PRM standards
- Also available with motion detector for:
  - significant energy savings
  - a reduction of light pollution
  - a convenient and secure function to the site
  - an extension to the LED lifetime
- Also available with dimmable power supply



Standard Lens (asymmetrical)



On request: symmetrical lens



On request



Motion detector



remote control

# 230V

## G9 & Led 6W - 10W



Omega 1

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety sandblasted glass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK04

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 2700K / 4000K (only ref. 910SA)



IP65

230V

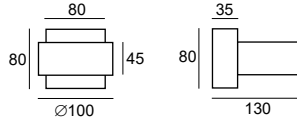


max.  
efficacy  
102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

code: **910SA. XX . XX**  
led<sup>1</sup> bulb | color

**DIMMABLE**



### LED / BULB

**G9** G9 LED (max. diameter 32mm / height 60mm)  
**W6** Led 6W 230V - 3000K  
**W7** Led 10W 230V - 3000K

2700K / 4000K = on request

### COLOR

**02A** Anodized black  
**32** Anodized aluminum



Omega 2

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety sandblasted glass  
Degree of protection IP65 - IK04

### ON REQUEST

Other anodized color  
Painted in RAL colors



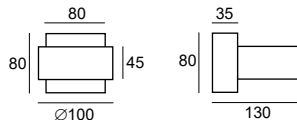
IP65

230V



code: **913SA. G9 . XX**  
color

**DIMMABLE**



### BULB

**G9** G9 LED (max. diameter 32mm / height 60mm)

### COLOR

**02A** Anodized black  
**32** Anodized aluminum

With recessed box on request



# Omega

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W - 20W



Wally-S



IP65

230V

IK04



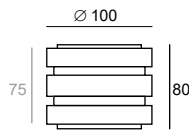
### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety clear glass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK04

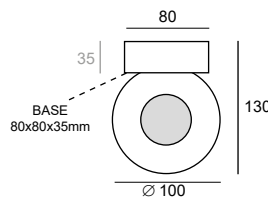
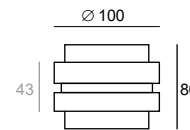
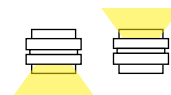
### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 2700K / 4000K

TWO SIDES



ONE SIDE



code: 7011. **XXX** . **XX**  
led color



### LED

**W11** 6W - 3000K - 50°  
**W12** 10W - 3000K - 50°  
**W21** 2x 6W - 3000K - 50°  
**W22** 2x 10W - 3000K - 50°

2700K / 4000K = on request

### COLOR

**02A** Anodized black  
**32** Anodized aluminum

max.  
efficacy  
102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

# Wally-S

Led wall light

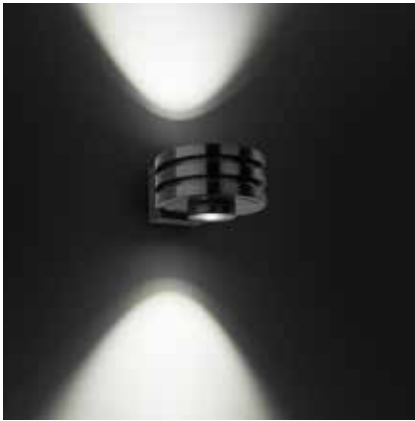


EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 10W - 40W



Wally-XL

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety clear glass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK04



IP65

230V

IK04



### ACCESSORIES

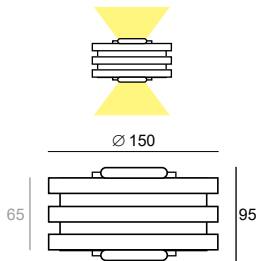
Adjustable lens 30° --> 5° - ref: AC.7012.1.\_.\_  
Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

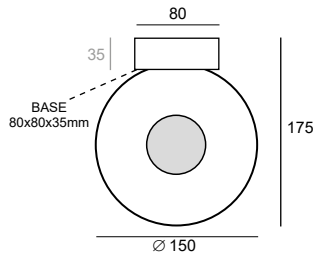
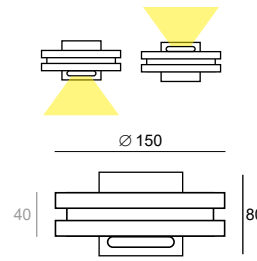
Other anodized color  
Painted in RAL colors  
Other led color: 2700K / 4000K




TWO SIDES



ONE SIDE



code: 7012. **XXX** . **XX**   
led color

### LED

**W12** 10W - 3000K - 50°  
**W13** 20W - 3000K - 50°  
**W22** 2x 10W - 3000K - 50°  
**W23** 2x 20W - 3000K - 50°

Led 10W 2700K / 4000K = on request

### COLOR

**02A** Anodized black  
**32** Anodized aluminum

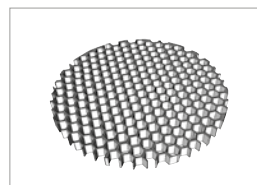
max. efficacy  
102lm/W

	Typical luminous flux (lm)	
	10W	20W
2700 K	930	
3000 K	950	1800
4000 K	1020	

### Accessories

**X060.050.3**

Ø 50 mm  
Height: 3mm



Louver

**AC.7012.1.\_.\_**

Ø 65 mm  
Height: 55mm



Lens 02

# Wally-XL

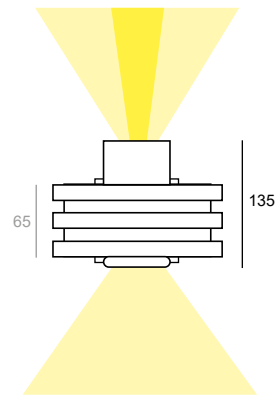
## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

EXAMPLE  
with accessory ref: AC.7012.1.\_.\_  
on the top

ADJUSTABLE beam angle  
30° to 5°



with accessory ref: AC.7012.1.\_.\_  
on the top

# 230V

## 3,2W - 6,4W



Mini Astro 1

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK06  
Safety extra clear glass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated



IP65

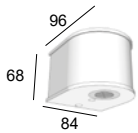
230V

IK06

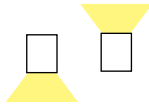


### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V



code: 8055 . XXX . XX  
led  
angle  
color



Typical luminous flux (lm)	
3,2W	
2700 K	337
3000 K	354
4000 K	380
5000 K	381

### LED

**D3** 3,2W - 4000K  
**W3** 3,2W - 2700K

### ANGLE

**1** 35°  
**2** 50°

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum

2200K / 3000K / 5000K = on request

# Mini Astro

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK06  
Safety extra clear glass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V



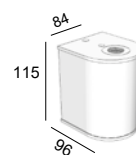
Mini Astro 2



IP65

230V

IK06



max. efficacy  
128lm/W

Typical luminous flux (lm)	
2x 3,2W	
2700 K	2x 355
3000 K	2x 370
4000 K	2x 395
5000 K	2x 410

code: 8054 . XXX . XX

led  
angle  
color



LED	ANGLE	COLOR
D3 2x 3,2W - 4000K	1 35°	01 White
W3 2x 3,2W - 2700K	2 50°	02 Black
		32 Anodized aluminum

2200K / 3000K / 5000K = on request



# 230V

## 6W - 17W



IP65

230V

IK09



### DESCRIPTION

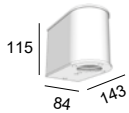
Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety extra clear glass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.043.3

### ON REQUEST

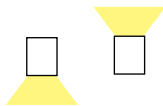
Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V



max.  
efficacy  
142lm/W

code: 8053 . XXX . XX

led  
power  
angle  
color



	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

### LED

**D** 4000K  
**W** 2700K

### POWER

**0** 6W  
**1** 11W  
**2** 17W

### ANGLE

**1** 15°  
**3** 50°

### COLOR

**01** White  
**02** Black  
**32** Anodized aluminum

2200K / 3000K / 5000K = on request  
36° beam angle = on request

# Astro 1

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 12W - 34W



Astro 2



IP65

230V

IK09



### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety extra clear glass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.043.3

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K



Recto 2



IP65

230V

IK09



### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety extra clear glass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ACCESSORIES

Anti-glare honeycomb - Louver ref: X060.043.3

### ON REQUEST

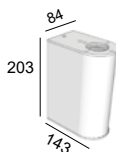
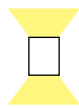
Other RAL colors  
Other led color: 2200K / 3000K / 5000K

# Astro 2 - Recto 2



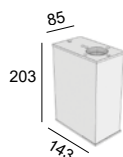
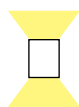
## Led wall light

code: 8034 . XXX . XX  
 led  
 power  
 angle  
 color



max.  
efficacy  
142lm/W

code: 8035 . XXX . XX  
 led  
 power  
 angle  
 color



	Typical luminous flux (lm)		
	2x 6W	2x 11W	2x 17W
2700 K	2x 725	2x 1350	2x 2090
3000 K	2x 760	2x 1400	2x 2180
4000 K	2x 805	2x 1480	2x 2310
5000 K	2x 845	2x 1540	2x 2415

LED		POWER		ANGLE		COLOR	
D	4000K	0	2 x 6W	1	15°	01	White
W	2700K	1	2 x 11W	3	50°	02	Black
		2	2 x 17W			32	Anodized aluminum

2200K / 3000K / 5000K = on request  
 36° beam angle = on request



# 230V GU10



Cube 1L



IP65

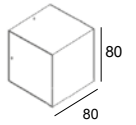
230V

IK04



code: 902.GU.XX

color



## BULB

**GU** GU10 LED (max. height 52mm)

## COLOR

**02A** Anodized black  
**32** Anodized aluminum



Cube Bis



IP65

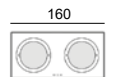
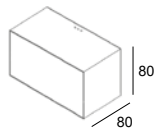
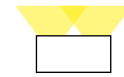
230V

IK04



code: 904.GU.XX

color



## BULB

**GU** 2 x GU10 LED (max. height 52mm)

## COLOR

**02A** Anodized black  
**32** Anodized aluminum

# Cube 1L / Bis

## Led wall light



### DESCRIPTION

---

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK04  
Safety clear glass

### ON REQUEST

---

Other anodized color  
IK09 with clear or sandblasted safety plexiglass



# 230V GU10



Cube 2L



IP65

230V

IK04

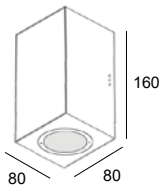


## DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK04  
Safety clear glass

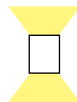
## ON REQUEST

Other anodized color  
IK09 with clear or sandblasted safety plexiglass



code: 907.GU.XX

color



## BULB

GU 2 x GU10 LED (max. height 52mm)

## COLOR

02A Anodized black  
32 Anodized aluminum

# Cube 2L

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V GU10



Max

## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety clear plexiglass



## ON REQUEST

IP65

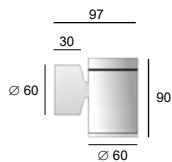
Other RAL colors

230V

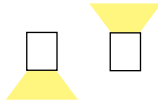
Other anodized color

IK09

Other dimensions (customized)



code: 753. GU . XX  
color



## BULB

**GU** GU10 LED (max. height 56mm)

## COLOR

- 00** Natural brushed aluminum
- 02** Black
- 04** Brushed stainless steel
- 07** Brushed brass
- 21** Brushed copper
- 39** Grey

With recessed box on request



With recessed box on request



Double luminaire on request



# Max

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



Villages Nature® Paris - Photographe : Isabelle SMOLINSKI

# 230V GU10



Teka



IP65

230V

IK09

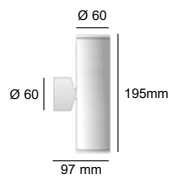


## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety clear plexiglass

## ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)

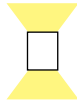


code: 752. GU . XX

color



DIMMABLE



## BULB

GU 2 x GU10 LED (max height 65mm)

## COLOR

00 Natural brushed aluminum  
02 Black  
04 Brushed stainless steel  
07 Brushed brass  
21 Brushed copper  
39 Grey

With recessed box on request



# Teka

## Led wall light

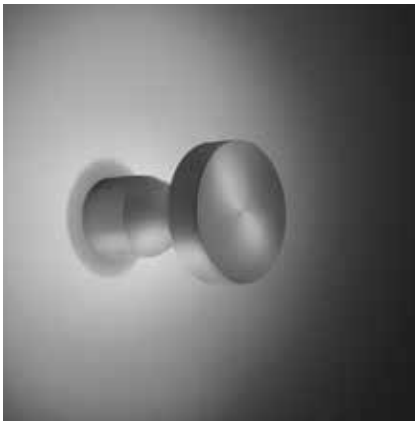


EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W



Disk

### DESCRIPTION

Body made in anodized aluminum, copper or brass  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10



IP65

230V

IK07



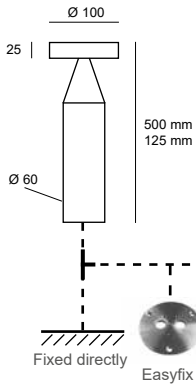
### ACCESSORIES

Base plate Ø 100mm - Easyfix ref: X100A. \_\_  
Spike for ground fixing - Pic 1 ref: 802.00.02

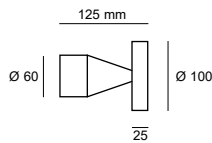
### ON REQUEST

Painted in RAL colors  
Other anodized color  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Power supply 24VDC included  
Other dimensions (customized)

#### garden bollard



#### wall lamp



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.



Pic 1

code: 340. X XXX . XX  
height led color



#### HEIGHT

1 125 mm  
2 500 mm

#### LED

272 6W - 2700K  
302 6W - 3000K

#### COLOR

02A Anodized black  
07 Brushed brass  
21 Brushed copper  
32 Anodized aluminum  
33 Anodized bronze

4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

max. efficacy 80lm/W

Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

- Please refer to the information pages for the specific characteristics of anodised finishes.
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# Disk

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W



Fly D

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

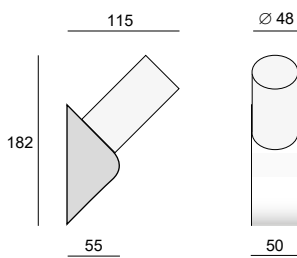
230V

IK06



### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
80lm/W

Typical luminous flux (lm)	
	6W
2700 K	460
3000 K	470
4000 K	480

code: 342. XXX . XX  
led color



### LED

**273** Led 6W 230V - 2700K  
**303** Led 6W 230V - 3000K

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

6W 230V 4000K = on request  
4W 230V 2700K / 3000K / 4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Fly D

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



with ball d.97mm = on request



# 230V

## 3,2W



LightSaber D



IP65

230V

IK06



### DESCRIPTION

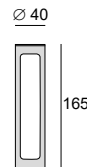
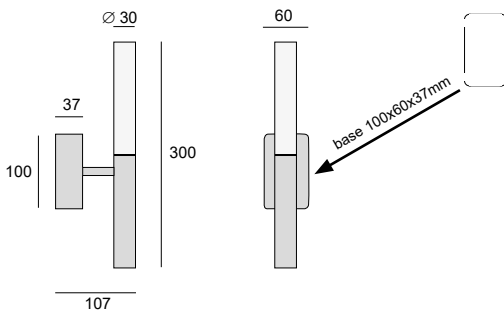
Body made in solid aluminum  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK06

### ACCESSORIES

Anti-glare tube - CoverSab 2 ref: 384.AC1.\_ \_

### ON REQUEST

Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K



### CoverSab 2

code: 384.AC1.\_ \_



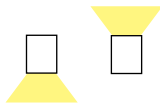
Anti-glare accessory  
Ø 40 mm Height: 165mm

CoverSab 2

Reference	Price €
384.AC1._ _	52.00

max.  
efficacy  
128lm/W

code: 384. XXX . XX  
          led       color



Typical luminous flux (lm)	
3,2W	
2700 K	355
3000 K	370
4000 K	395
5000 K	410

### LED

**272** 3,2W 230V - 2700K  
**302** 3,2W 230V - 3000K

2200K / 4000K / 5000K = on request

### COLOR

**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

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# LightSaber D

## Led wall light



with accessory "CoverSab 2"



with accessory "CoverSab 2"



# 350mA & 230V

## 3,2W



Globe S

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)  
Degree of protection IP65 - IK06



IP65

350mA

IK06

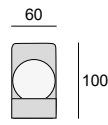
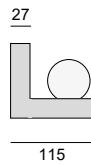
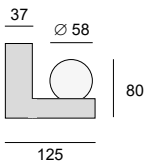


### ON REQUEST

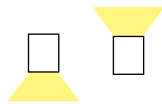
Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K

230V

350mA



code: 343. **XX XX . XX**  
led power color



max. efficacy  
128lm/W

Typical luminous flux (lm)	
3,2W	
2700 K	355
3000 K	370
4000 K	395
5000 K	410

### LED

27 2700K  
30 3000K

### POWER

2A 3,2W - 350mA  
2B 3,2W - 230V

### COLOR

01 White  
02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

2200K / 4000K / 5000K = on request

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# Globe S

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W



Globe M

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

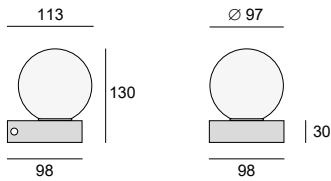
230V

IK06



### ON REQUEST

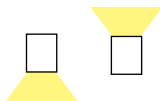
Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
80lm/W

Typical luminous flux (lm)	
	6W
2700 K	460
3000 K	470
4000 K	480

code: 344. **XXX** . **XX**  
led color



### LED

**272** 6W 230V - 2700K  
**302** 6W 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

6W 230V 4000K = on request  
4W 230V 2700K / 3000K / 4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Globe M

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## 6W -12W



Cylo 1

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07



IP65

230V

IK07



### ON REQUEST

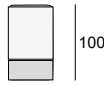
Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



27 Ø 60



105



60

max.  
efficacy  
80lm/W

code: 346. **XXX** . **XX**  
led color



Typical luminous flux (lm)

6W	
2700 K	460
3000 K	470
4000 K	480

### LED

**272** 6W 230V - 2700K  
**302** 6W 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

6W 230V 4000K = on request

4W 230V 2700K / 3000K / 4000K = on request

3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



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# Cylo

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CR>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



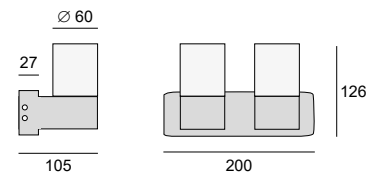
Cylo 2



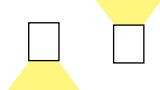
IP65

230V

IK07



code: 348. XXX . XX  
          |          |  
          led      color



max.  
efficacy  
80lm/W

Typical luminous flux (lm)	
	2x 6W
2700 K	2x 460
3000 K	2x 470
4000 K	2x 480

### LED

**272** 12W (2x 6W) 230V - 2700K  
**302** 12W (2x 6W) 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

2x 6W 230V 4000K = on request

2x 3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# 230V

## 8W -16W



Cylo K1

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07



IP65

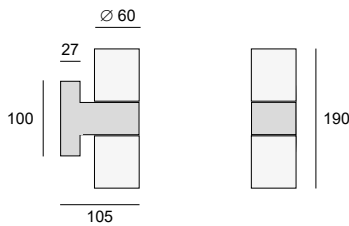
230V

IK07



### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
85lm/W

Typical luminous flux (lm)	
2x 4W	
2700 K	2x 315
3000 K	2x 320
4000 K	2x 340

### LED

**271** 8W (2x 4W) 230V - 2700K  
**301** 8W (2x 4W) 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

2x 4W 230V 4000K = on request

2x 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

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# Cylo K

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



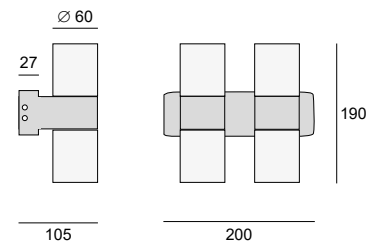
IP65

230V

IK07

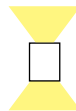


Cylo K2



max. efficacy 89lm/W

code: 349. XXX . XX  
          led     color



Typical luminous flux (lm)	
	4x 4W
2700 K	4x 315
3000 K	4x 320
4000 K	4x 340

### LED

**271** 16W (4x 4W) 230V - 2700K  
**301** 16W (4x 4W) 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

4x 4W 230V 4000K = on request  
4x 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



# 230V

## 8W -16W



Cylo G1

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07



IP65

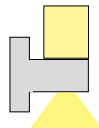
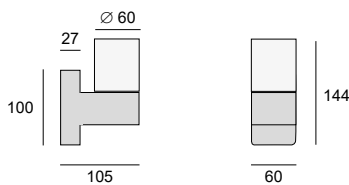
230V

IK07



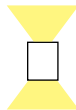
### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



max.  
efficacy  
85lm/W

code: 350. XXX . XX  
led color



Typical luminous flux (lm)	
	2x 4W
2700 K	2x 315
3000 K	2x 320
4000 K	2x 340

### LED

271 8W (2x 4W) 230V - 2700K  
301 8W (2x 4W) 230V - 3000K

### COLOR

01 White  
02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

2x 4W 230V 4000K = on request

2x 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

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# Cylo G

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK07

### ON REQUEST

Painted in RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



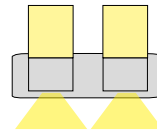
IP65

230V

IK07



Cylo G2



Ø 60



105

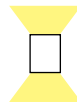


126

200

max.  
efficacy  
85lm/W

code: 351. XXX . XX  
          led       color



Typical luminous flux (lm)	
4x 4W	
2700 K	4x 315
3000 K	4x 320
4000 K	4x 340

### LED

**271** 16W (4x 4W) 230V - 2700K  
**301** 16W (4x 4W) 230V - 3000K

### COLOR

**01** White  
**02A** Anodized black  
**32** Anodized aluminum  
**33** Anodized bronze  
**34** Anodized matt gold  
**35** Anodized green  
**36** Anodized burgundy

4x 4W 230V 4000K = on request

4x 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# 230V

## 3,2W



Struggi

### DESCRIPTION

Body made in copper  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK06



IP65

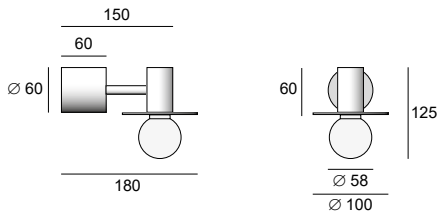
230V

IK06



### ON REQUEST

Made of aluminum with anodized color  
Made of aluminum with RAL color  
Other led color: 2200K / 4000K / 5000K  
Other dimensions (customized)



max.  
efficacy  
132lm/W

code: 400. XXX . XX  
          led       color



### LED

272 3,2W 2700K - 230V  
302 3,2W 3000K - 230V

### COLOR

21 Copper

2200K / 4000K / 5000K = on request

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# Strouggi

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 350mA & 230V

## 3,2W



Mini Fanari

### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)  
Degree of protection IP65 - IK06



IP65

350mA

IK06

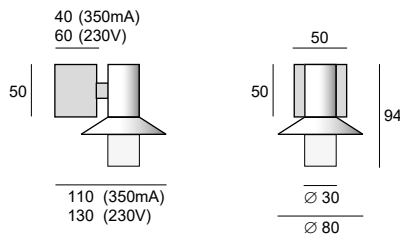


### ACCESSORIES

Led driver 350mA CC (not for 230V model)

### ON REQUEST

Painted in RAL colors  
Other led color: 2200K / 4000K / 5000K



max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 382. XX XX . XX  
led power color



### LED

27 2700K  
30 3000K

### POWER

2A 3,2W - 350mA  
2B 3,2W - 230V

### COLOR

02A Anodized black  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

2200K / 4000K / 5000K = on request

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- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
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# Mini Fanari

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

Also available as pendant light



On request: also available as garden light



# 230V

## E27 & Led 6W



Fanari



IP65

230V

IK06

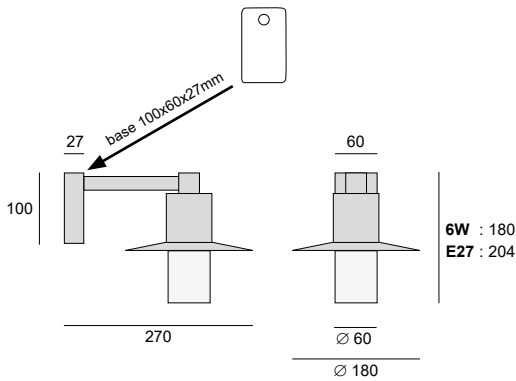


### DESCRIPTION

Body made in solid aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06

### ON REQUEST

Other RAL colors  
Other led color: 4000K  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



code: 381. XX . XX  
led color



max.  
efficacy  
80lm/W

Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

### LED / BULB

27 6W 2700K - 230V  
30 6W 3000K - 230V  
E27 E27 LED (max. diameter 50mm / height 120mm)

6W 230V 4000K = on request

3,2W or 6W 350mA 2200K → 5000K = on request

### COLOR

01 White  
02A Anodized black  
24 Corten  
32 Anodized aluminum  
33 Anodized bronze  
34 Anodized matt gold  
35 Anodized green  
36 Anodized burgundy

available as pendant light with hook



available as pendant light



### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισμένων.

# Fanari

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



Alma Architects (Alexandra & Margarita SIMANTIRI) / Photography by Thomas GERASOPOULOS  
Hotel Klostrá, Foinikia Oias, Santorini, Greece

# 230V E27



Onyx D



IP65

230V

IK07



## DESCRIPTION

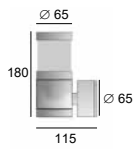
Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Led Bulb E27

## ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



code: 701.E2.XX

color



DIMMABLE

## BULB

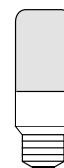
**E2** E27 LED (max. diameter 48mm / height 125mm)

[Other socket for LED \( G9, G4, E14,...\) = on request](#)

## COLOR

**00** Natural brushed aluminum  
**02** Black

## Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Onyx

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



Single + recessed box on request



Double luminaire on request



Up & down luminaire on request



# 230V

## E27 / G9 / GU10



Manix D

### DESCRIPTION

Body made in stainless steel, brass or copper  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07



IP65

230V

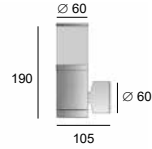


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



code: 942.E2.04



### BULB

**E2** E27 LED (max. diameter 48mm / height 125mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper



Manix G

### DESCRIPTION

Body made in stainless steel, brass or copper  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07



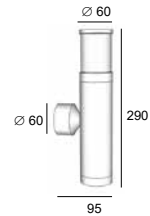
IP65

230V



### ON REQUEST

Other dimensions (customized)



code: 944.2G.04



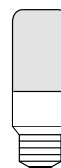
### BULB

**2G** 1x G9 + 1x GU10 LED (max height 65mm)

### COLOR

**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Manix

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



Single + recessed box on request



Double + recessed box on request



Up & down luminaire on request



# 230V

## E27 / G9 / GU10



Zebra D

### DESCRIPTION

Body made in stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass



IP65

230V

IK07

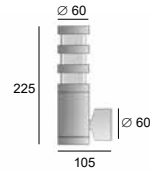


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



code: 761.E2.04



### BULB

**E2** E27 LED (max. diameter 37mm / height 160mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**04** Brushed stainless steel



Zebra G

### DESCRIPTION

Body made in stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass



IP65

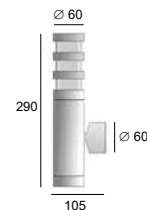
230V

IK07



### ON REQUEST

Other dimensions (customized)



code: 798.2G.04



### BULB

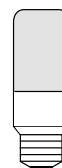
**2G** 1x G9 + 1x GU10 LED (max height 65mm)

### COLOR

**04** Brushed stainless steel

### Accessory

code: **LED.E201.10830**



LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Zebra

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



"Zebra Y" with angle 30° on request



Serie "Atrex Y" on request



Serie "Atrex G" on request



Serie "Atrex D" on request



# 230V

## E27 / G9 / GU10



Atlantic D

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07



IP65

230V

IK07

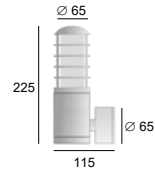


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



code: 729.E2.04



### BULB

**E2** E27 LED (max. diameter 37mm / height 160mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**00** Natural brushed aluminum  
**02** Black



Atlantic G

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07



IP65

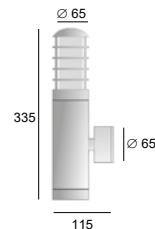
230V

IK07



### ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)



code: 173.2G.04

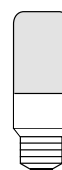
### BULB

**2G** 1x G9 + 1x GU10 LED (max height 80mm)

### COLOR

**00** Natural brushed aluminum  
**02** Black

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Atlantic

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



Serie "Atrex" on request



# 230V

## E27



Sumo D

### DESCRIPTION

Body made in stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass



IP65

230V

IK07

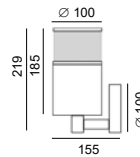


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



code: 972.E2.04



### BULB

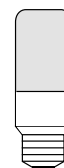
**E2** E27 LED (max. diameter 49mm / height 137mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**04** Brushed stainless steel

### Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9,5W 830 Non-Dim



# Sumo

## Led wall light

EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in certified genuine Belgian stone  
All metal parts are made of stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass

### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



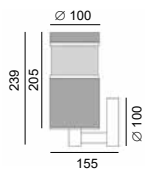
IP65

230V

IK07



Sumo RD



code: 962.E2.41



### BULB

**E2** E27 LED (max. diameter 52mm / height 137mm)

[Other socket for LED \( G9, G4, E14,...\) = on request](#)

### COLOR

**41** Belgian Pierre





# 230V

## E27



Spirit RD



IP65

230V

IK07



### DESCRIPTION

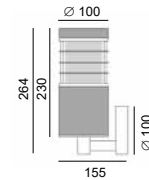
Body made in certified genuine Belgian stone  
 All metal parts are made of stainless steel  
 Screws in stainless steel  
 Degree of protection IP65 - IK07  
 Safety sandblasted plexiglass

### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
 Other socket for LED (G9, G4, E14 ...)



code: 953.E2.41



### BULB

**E2** E27 LED (max. diameter 52mm / height 160mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**41** Belgian Pierre



Spirit KD



IP65

230V

IK07



### DESCRIPTION

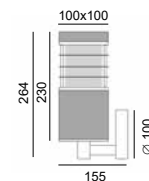
Body made in certified genuine Belgian stone  
 All metal parts are made of stainless steel  
 Screws in stainless steel  
 Degree of protection IP65 - IK07  
 Safety sandblasted plexiglass

### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
 Other socket for LED (G9, G4, E14 ...)



code: 950.E2.41



### BULB

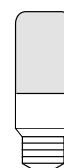
**E2** E27 LED (max. diameter 52mm / height 160mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

**41** Belgian Pierre

#### Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
 9,5W 830 Non-Dim

# Spirit

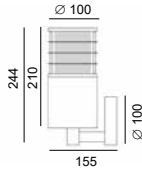
## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass



### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK07



Spirit D



code: 970.E2.04



### BULB

E2 E27 LED (max. diameter 49mm / height 160mm)

### COLOR

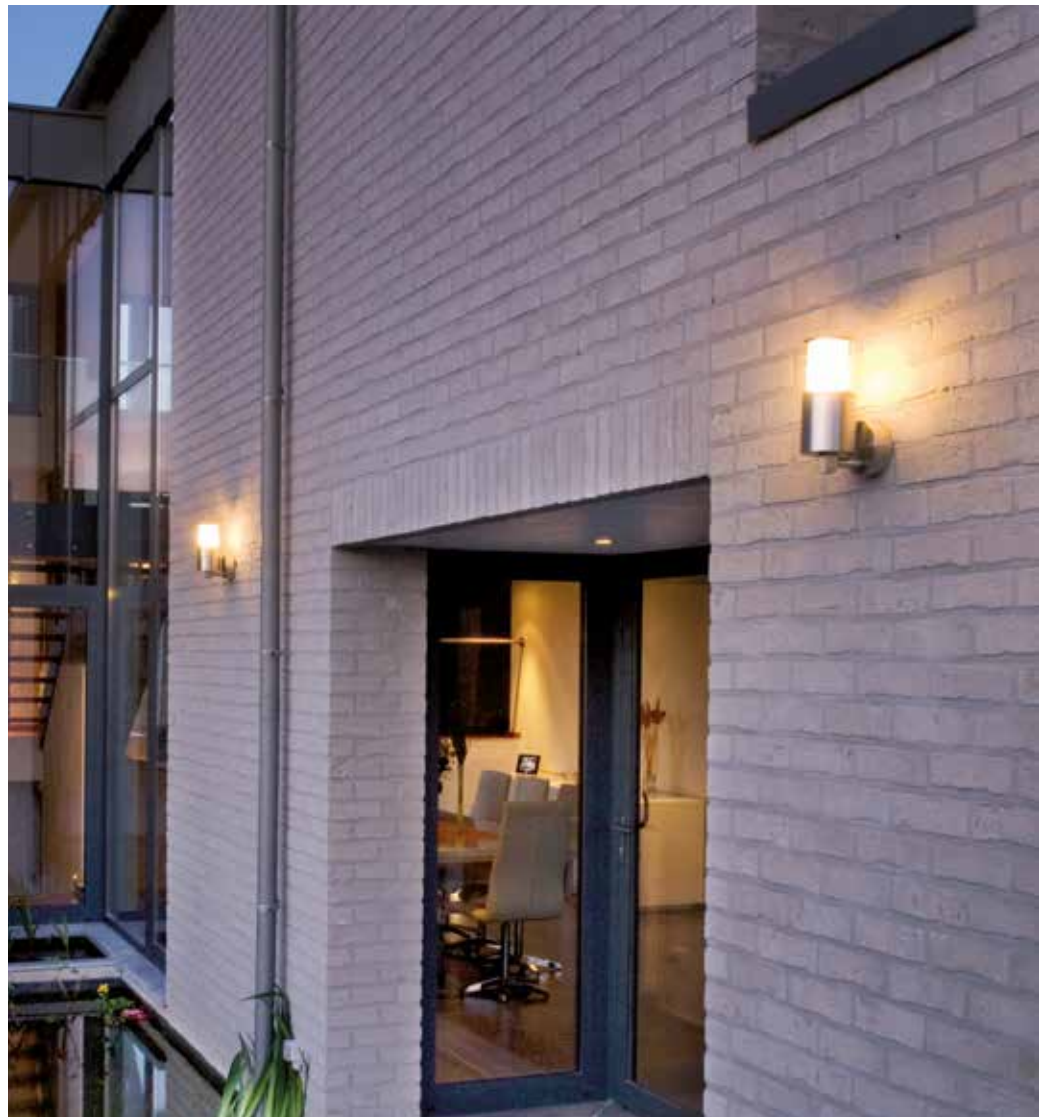
04 Brushed stainless steel

Other socket for LED ( G9, G4, E14,...) = on request

Serie "Atrex RD" on request



Serie "Atrex KD" on request



# 230V

## E27



Poeme D



IP65

230V

IK07



### DESCRIPTION

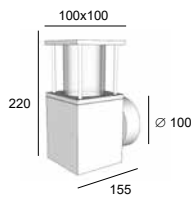
Body made in aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass

### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other RAL colors  
Other socket for LED (G9, G4, E14 ...)



code: 8019.E27.XX



color

### BULB

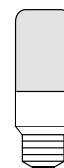
E27 LED (max. diameter 53mm / height 145mm)

Other socket for LED ( G9, G4, E14,...) = on request

### COLOR

02 Black  
39 Grey

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Poeme

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## E27



Cambridge A

### DESCRIPTION

Body made in casted brass  
Screws in brass  
Sandblasted white glass  
Degree of protection IP45



IP45

230V

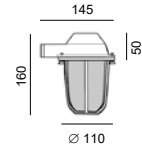


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other socket for LED (G9, G4, E14 ...)



code: 114.5.07



### BULB

E27 LED (max. diameter 50mm / height 137mm)

### COLOR

07 Natural brass

Other socket for LED ( G9, G4, E14,...) = on request



Cambridge B

### DESCRIPTION

Body made in casted brass  
Screws in brass  
Sandblasted white glass  
Degree of protection IP45



IP45

230V

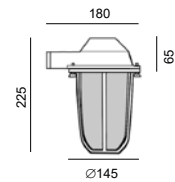


### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other socket for LED (G9, G4, E14 ...)



code: 117.5.07



### BULB

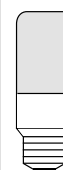
E27 LED (max. diameter 65mm / height 170mm)

### COLOR

07 Natural brass

Other socket for LED ( G9, G4, E14,...) = on request

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Cambridge



## Led wall light

EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V

## E27



Marina-O

### DESCRIPTION

Body made in casted brass  
Screws in stainless steel  
Degree of protection IP54  
Safety clear structured glass



IP54

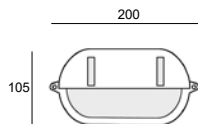
230V

IK04



### ACCESSORIES

Led Bulb E27



code: 709.E2.07



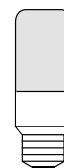
### BULB

**E2** E27 LED (max. diameter 40mm / height 120mm)

### COLOR

**07** Natural brass

### Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Marina

## Led wall light



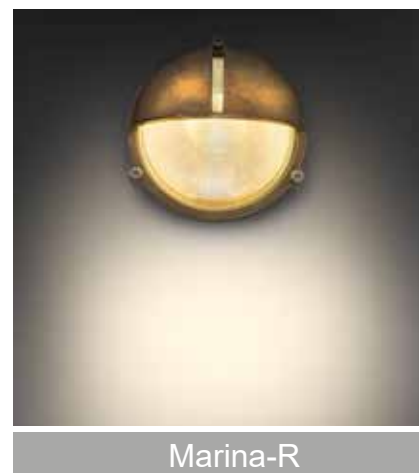
EXTERIOR LIGHTING  
WALL LIGHT - Surface

### DESCRIPTION

Body made in casted brass  
Screws in stainless steel  
Degree of protection IP54  
Safety clear structured glass

### ACCESSORIES

Led Bulb E27



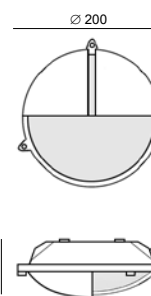
IP54

230V

IK04



Marina-R



code: 725.E2.07



### BULB

E2 E27 LED (max. diameter 40mm / height 120mm)

### COLOR

07 Natural brass

# 230V G9 & Led 4W



IP65

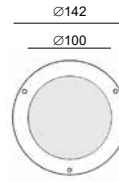
230V

IK03



Cobus A

code: 1134 . **XXX** . **XX**  
led' bulb | color



IP65

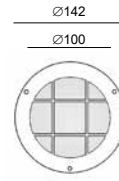
230V

IK03



Cobus B

code: 1138 . **XXX** . **XX**  
led' bulb | color



IP65

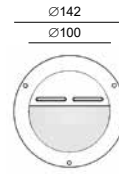
230V

IK03



Cobus C

code: 1135 . **XXX** . **XX**  
led' bulb | color



IP65

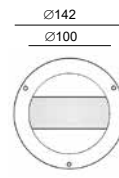
230V

IK03



Cobus D

code: 1137 . **XXX** . **XX**  
led' bulb | color



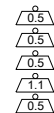
## LED / BULB

**G9** G9 LED (max. diameter 20mm / length 65mm)  
**W40** Led 4W 230V - 2700K

LED 4W 3000K / 4000K = on request

## COLOR

**00** Natural aluminum  
**01** White  
**02** Black  
**07** Natural brass  
**39** Grey



# Cobus

## Led wall light



max.  
efficacy  
85lm/W

Typical luminous flux (lm)	
	4W
2700 K	315
3000 K	320
4000 K	340

### DESCRIPTION

Body made in cast aluminum or brass  
Screws in stainless steel  
Degree of protection IP65  
Sandblasted white glass  
Available with dimmable led 230V incorporated

### ON REQUEST

Other RAL colors  
Only for led 4W 230V : 3000K / 4000K



# 230V E27



Mani R



IP45

230V

IK02



## DESCRIPTION

Body made in cast aluminum or brass  
Screws in stainless steel  
Degree of protection IP45  
Sandblasted white glass

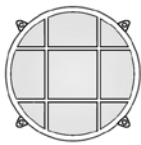
## ACCESSORIES

Led Bulb E27

## ON REQUEST

Painted in RAL colors

∅ 210



95



code: 111.E27.XX

color



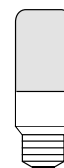
## BULB

**E27** E27 LED (max. diameter 45mm / height 137mm)

## COLOR

**00** Natural aluminum  
**07** Natural brass

## Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Mani R

## Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V E27



Octus O



IP45

230V

IK02



## DESCRIPTION

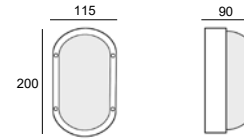
Body made in cast aluminum or brass  
Screws in stainless steel  
Degree of protection IP45  
Sandblasted white glass

## ACCESSORIES

Led Bulb E27

## ON REQUEST

Painted in RAL colors



Octus X



IP45

230V

IK02



## DESCRIPTION

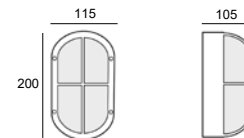
Body made in cast aluminum or brass  
Screws in stainless steel  
Degree of protection IP45  
Sandblasted white glass

## ACCESSORIES

Led Bulb E27

## ON REQUEST

Painted in RAL colors



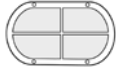
code: 1120A.XX

color



code: 1122A.XX

color



## BULB

E27 LED (max. diameter 40mm / height 120mm)

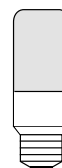
## COLOR

00 Natural brushed aluminum  
07 Natural brass



## Accessory

code: LED.E201.10830



LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Octus

Led wall light



EXTERIOR LIGHTING  
WALL LIGHT - Surface



# 230V E27 & Led 6W



Lotus A



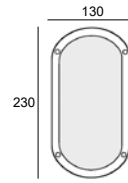
IP54

230V

IK02



code: 120 . XXX . XX  
led' bulb  
color



Lotus B



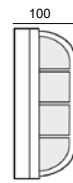
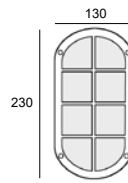
IP54

230V

IK02



code: 122 . XXX . XX  
led' bulb  
color



Lotus C



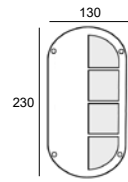
IP54

230V

IK02



code: 125 . XXX . XX  
led' bulb  
color



## LED / BULB

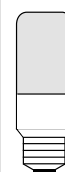
**E27** E27 LED (max. diameter 45mm / height 120mm)  
**W40** Led 6W 230V - 3000K

Led 6W 2700K / 4000K = on request

## COLOR

**00** Natural aluminum  
**01** White  
**02** Black

## Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

Achtung: Die Serie LOTUS wird nicht nach Deutschland geliefert.

# Lotus

## Led wall light



### DESCRIPTION

Body made in cast aluminum  
Screws in stainless steel  
Degree of protection IP54  
Sandblasted white glass  
Available with dimmable led 230V incorporated

### ACCESSORIES

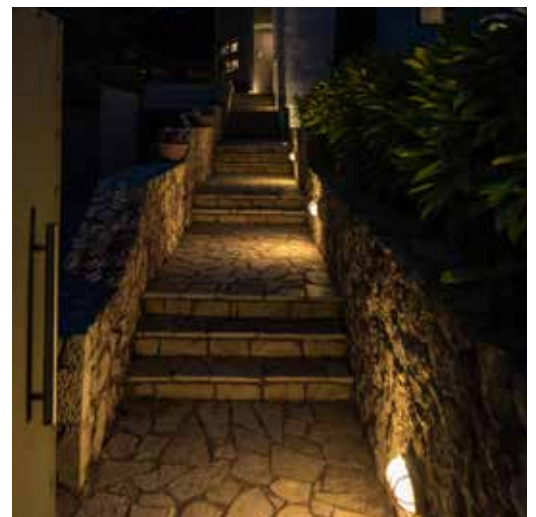
Led Bulb E27

### ON REQUEST

Other RAL colors  
Only for led 6W 230V : 2700K / 4000K

max.  
efficacy  
80lm/W

Typical luminous flux (lm)	
	6W
2700 K	460
3000 K	470
4000 K	480



# 230V E27 & Led 6W



Lotus D



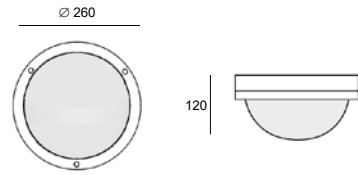
IP54

230V

IK02



code: 134 . XXX . XX  
led bulb color



Lotus E



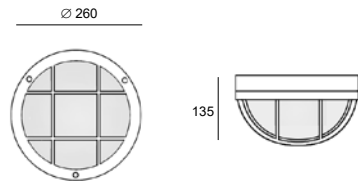
IP54

230V

IK02



code: 138 . XXX . XX  
led bulb color



max. efficacy 80lm/W

Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

## LED / BULB

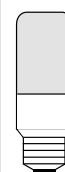
**E27** E27 LED (max. diameter 45mm / height 137mm)  
**W40** Led 6W 230V - 3000K

## COLOR

**00** Natural aluminum  
**01** White  
**02** Black

LED 6W 2700K / 4000K = on request

## Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

Achtung: Die Serie LOTUS wird nicht nach Deutschland geliefert.

# Lotus

## Led wall light



### DESCRIPTION

Body made in cast aluminum  
Screws in stainless steel  
Degree of protection IP54  
Sandblasted white glass  
Available with dimmable led 230V incorporated

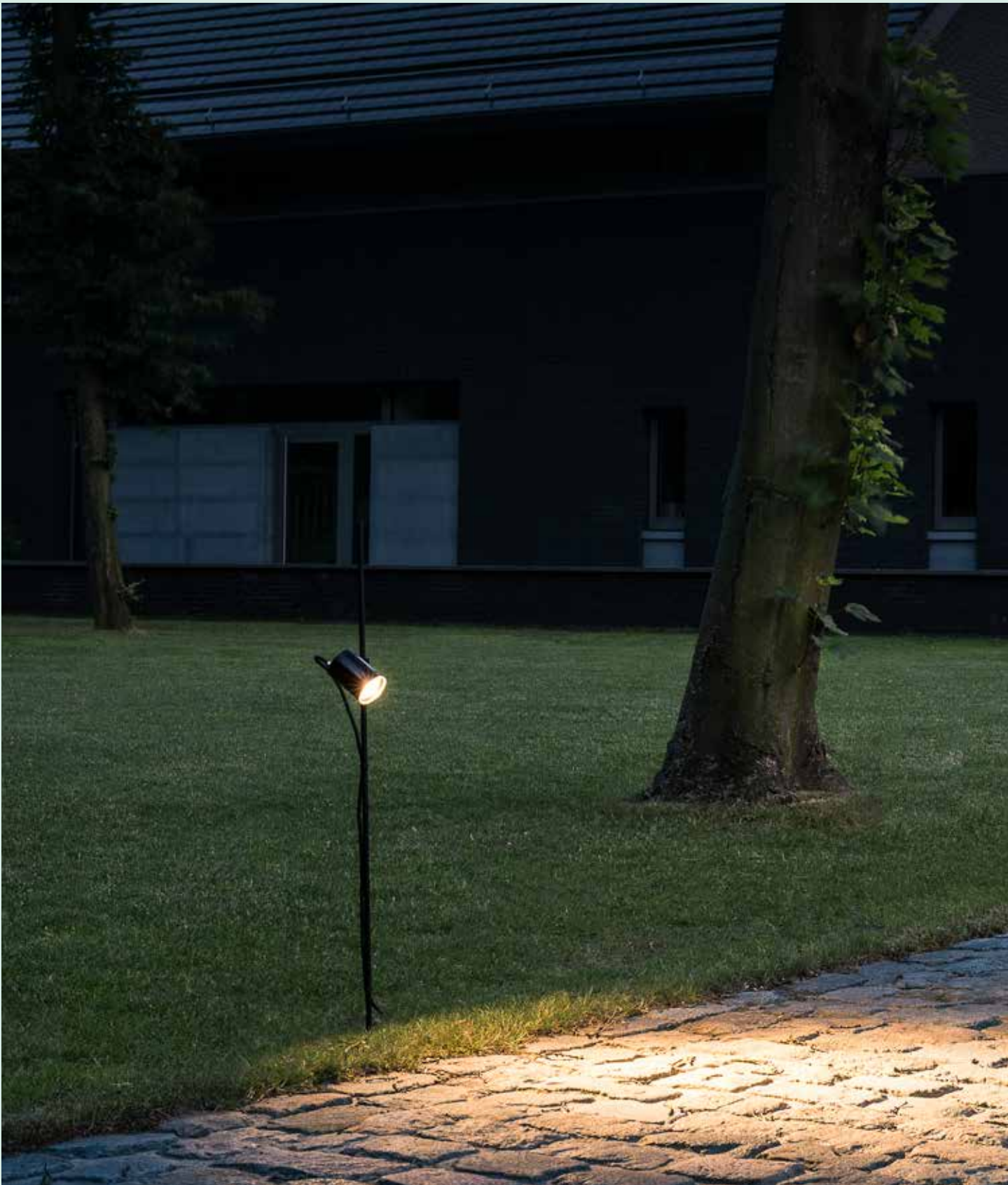
### ACCESSORIES

Led Bulb E27

### ON REQUEST

Other RAL colors  
Only for led 6W 230V : 2700K / 4000K





Maxima-GU



Exterior

Flood light



Swing



IP54

350mA

IK06



**DESCRIPTION**

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP54 - IK06  
Safety clear plexiglass  
Led 350mA CRI>80 3SDCM 50.000hrs L80 B10

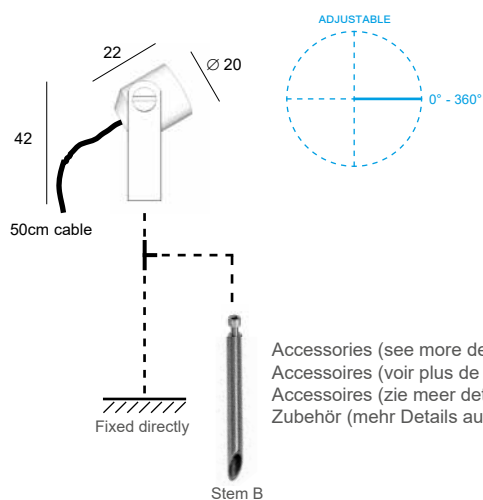
**ACCESSORIES**

Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Stem with spike for ground fixing: Stem B  
IP68 connection - Connex 4 ref: X083

**ON REQUEST**

Other anodized color  
Other material: stainless steel 316L  
Other led color: 2700K / 4000K

350mA  
1W



Accessories (see more details next pages)  
Accessoires (voir plus de détails pages suivantes)  
Accessoires (zie meer details volgende pagina's)  
Zubehör (mehr Details auf den folgenden Seiten)

code: 312. 30 . XX  
led | color



max. efficacy  
137lm/W

**LED**

30 1W 3000K 40°

**COLOR**

02A Anodized black  
32 Anodized aluminum

Typical luminous flux (lm)	
1W	
2700 K	119
3000 K	125
4000 K	137

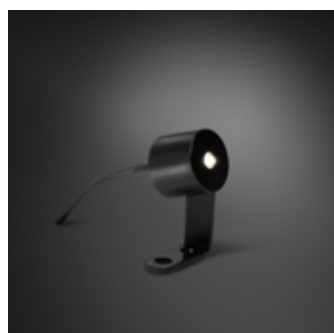
2700K / 4000K = on request

# Swing

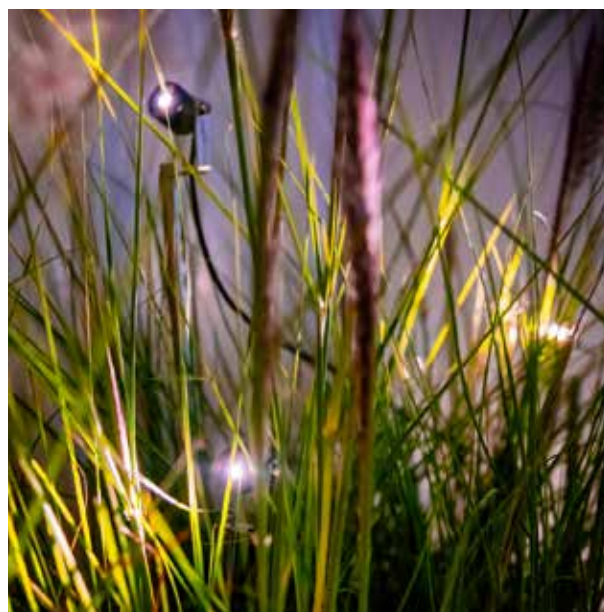
## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



stainless steel 316L  
(on request)



1 x SWING  
1 x STEM B

code: 312.30.02A  
code: T1.050.SPK.04









Kozi S

**DESCRIPTION**

Body made in solid stainless steel, brass, copper or aluminum  
 Screws in stainless steel  
 Degree of protection IK06 - IP68, water depth up to 1m  
 Safety clear glass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable





**350mA**  
**1,1W - 3,2W**

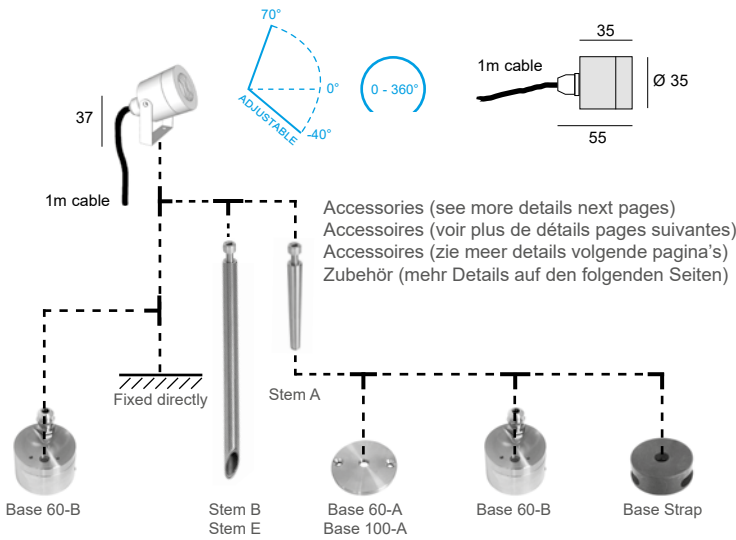
**ACCESSORIES**

-  Led driver AC/CC 350mA
-  Led driver DC/CC (12-36VDC/350mA)
-  Base & stem for ground/wall/ceiling
-  Stem with spike for ground fixing: Stem B / E
-  IP68 Anti-glare ring - ref: AC.8042.AG.\_ \_
-  IP68 connection - Connex 2 / 3 / 4

350mA

**ON REQUEST**

-  Other anodized color
-  Painted in RAL colors
-  Other led color: 2200K / 3000K / 5000K
-  Other cable length (customized)







code: 8042. **XXX** . **XX**  
 led color



**LED**

- D11** 1,1W - 4000K - 10°
- D13** 1,1W - 4000K - 35°
- D31** 3,2W - 4000K - 35°
- D32** 3,2W - 4000K - 50°
- W11** 1,1W - 2700K - 10°
- W13** 1,1W - 2700K - 35°
- W31** 3,2W - 2700K - 35°
- W32** 3,2W - 2700K - 50°

**COLOR**

- 02A** Anodized black 
- 04** Brushed stainless steel 
- 07** Brushed brass 
- 21** Brushed copper 

max. efficacy 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

2200K / 3000K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1.6W 10° 4000K 185 lumens

# Kozi S

## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x KOZI S  
1 x ANTI-GLARE 01  
1 x STEM A  
1 x BASE 60-A

code: 8042.W32.02A  
code: AC.8042.AG.02A  
code: TI.010.M10A.02A  
code: BASE.060A.02A



1 x KOZI S  
1 x BASE 60-B

code: 8042.W32.04  
code: BASE.060B.04



1 x KOZI S  
1 x STEM B

code: 8042.W32.21  
code: TI.050.SPK.21



1 x KOZI S  
1 x STEM B

code: 8042.W32.04  
code: TI.020.SPK.04

230V  
2x 3,2W



Anodized black



Anodized bronze



Brushed stainless steel

# Kozi FL

## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT

### DESCRIPTION

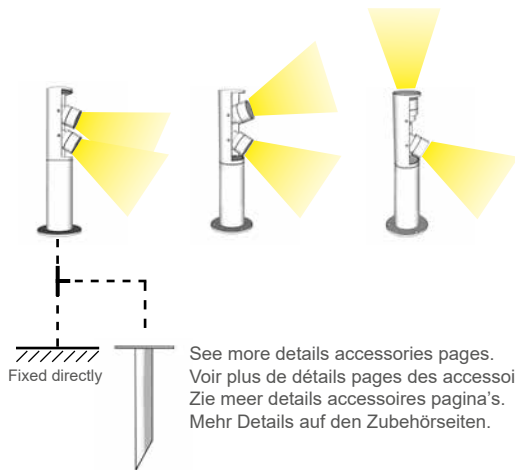
Body made in solid anodized aluminum or stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK06  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Anti-glare ring - ref: AC.8042.AG.\_.\_

### ON REQUEST

Other anodized color  
Other led color: 2200K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included  
Other dimensions (customized)



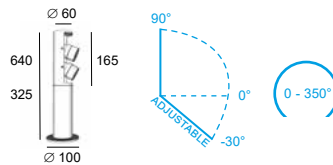
Fixed directly

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: 8043 . X XX . XX

height | led | color



max. efficacy  
128lm/W

Typical luminous flux (lm)	
2x 3,2W	
2700 K	2x 355
3000 K	2x 370
4000 K	2x 395
5000 K	2x 410

### HEIGHT

1 325mm  
2 640mm

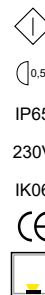
### LED

27 2 x 3,2W - 2700K - 50°  
30 2 x 3,2W - 3000K - 50°

### COLOR

02A Anodized black  
04 Brushed stainless steel  
32D Anodized aluminum  
33 Anodized bronze

2200K / 4000K / 5000K = on request  
diffusion angle 35° = on request



Kozi FL



Sami

**DESCRIPTION**

Body made in copper  
 Degree of protection IP65 - IK06  
 Safety sandblasted plexiglass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable



IP65

350mA

IK06



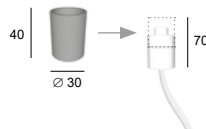
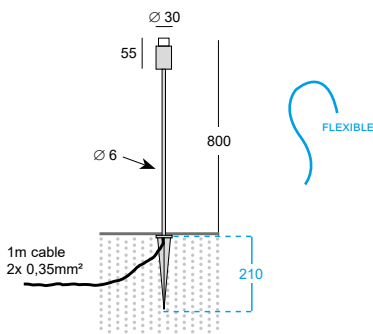
**ACCESSORIES**

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 Anti-glare ring - ref: 8031.AC01.21  
 IP68 connection - Connex 4 ref: X083

**ON REQUEST**

Other led color: 2200K / 3000K / 5000K  
 Other dimensions (customized)  
 Base plate for ground/wall/ceiling fixing  
 Other cable length (customized)

**350mA**  
**1,1W - 3,2W**



**Sami AG**

**code: 8031.AC01.21**

Anti-glare accessory  
 Ø 30 mm Height: 40mm

code: 8031 . XXX . 21  
 led



**LED**

**D13** 1,1W - 4000K  
**D32** 3,2W - 4000K  
**W13** 1,1W - 2700K  
**W32** 3,2W - 2700K

2200K / 3000K / 5000K = on request

**COLOR**

**21** Brushed copper

max. efficacy  
 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

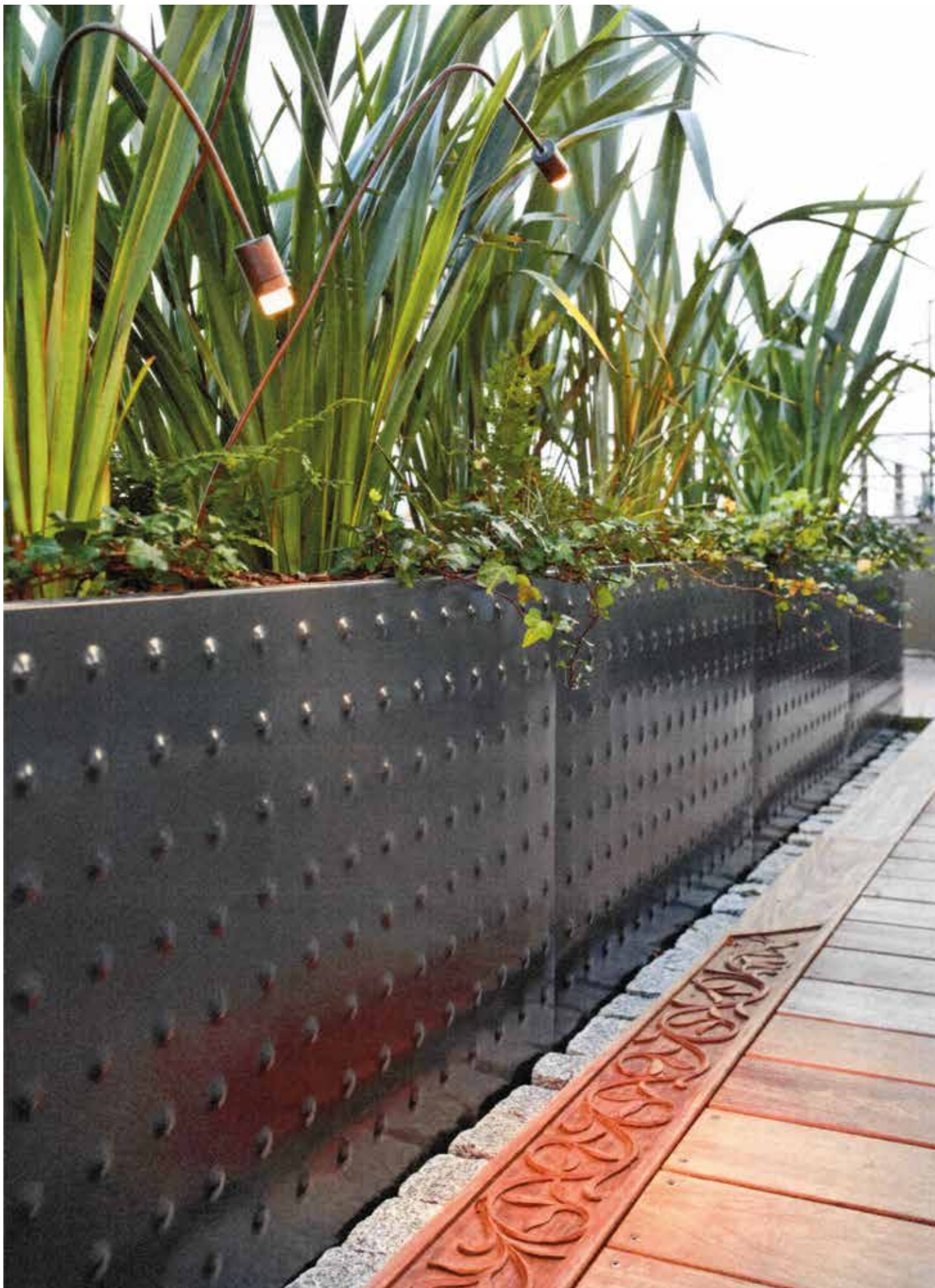
# Sami

Led flood light

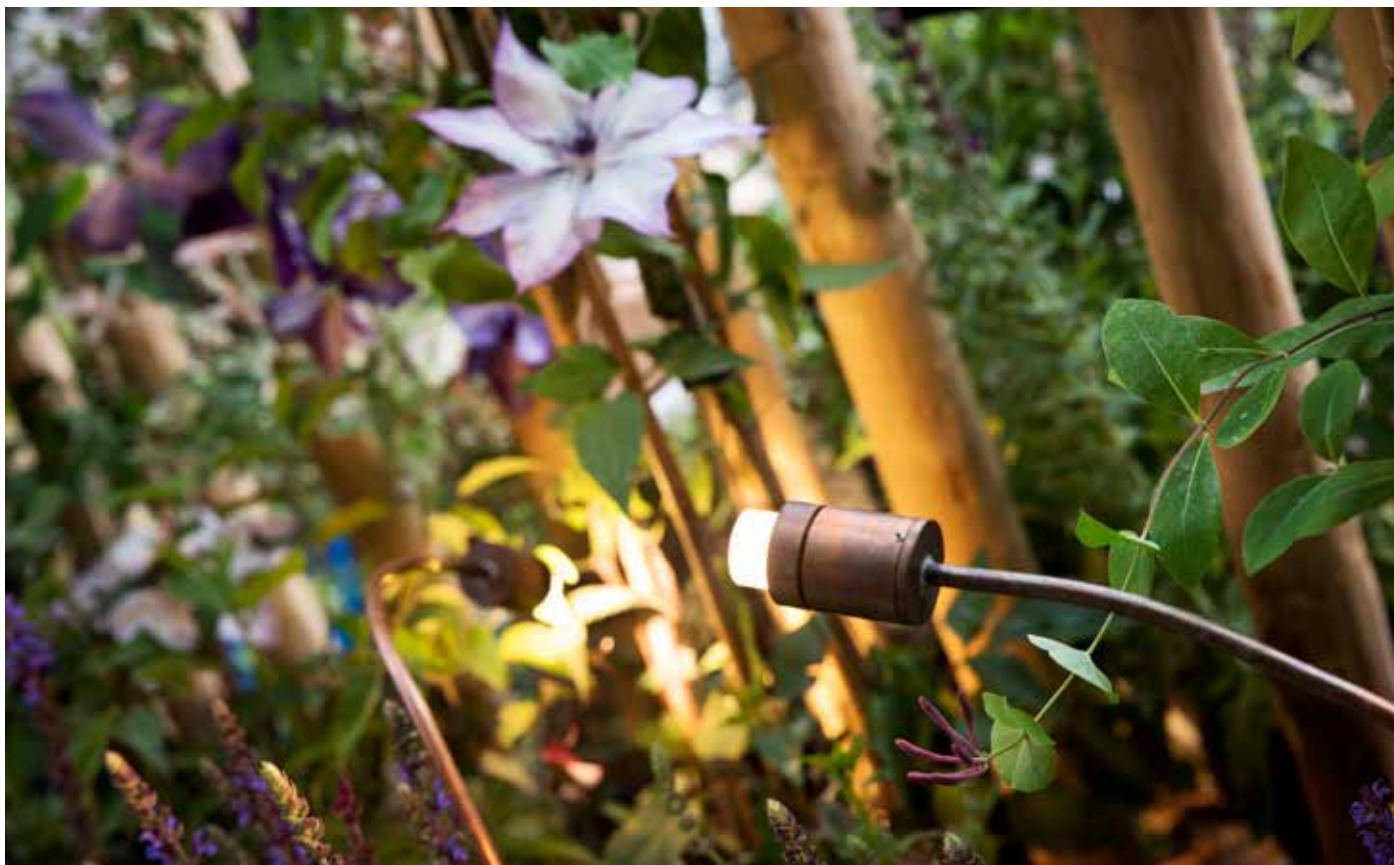


EXTERIOR LIGHTING  
FLOOD LIGHT





© Agence Christophe Gautrand & Associés Paysagistes / Photographies : Hugo Hébrard  
Aménagement de la terrasse de la Suite Royale Orientale de l'Hôtel Mandarin Oriental Paris.





Sami-flex

**DESCRIPTION**

Body made in anodized aluminum  
 Flexible rod with polyolefin heat shrink tubing  
 Degree of protection IP65 - IK06  
 Safety sandblasted plexiglass  
 Led 350mA GRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable

**ACCESSORIES**

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 Anti-glare ring - ref: 7021.AC01.02A  
 IP68 connection - Connex 4 ref: X083

**ON REQUEST**

Other led color: 2200K / 3000K / 5000K  
 Base plate for ground/wall/ceiling fixing  
 Other cable length (customized)



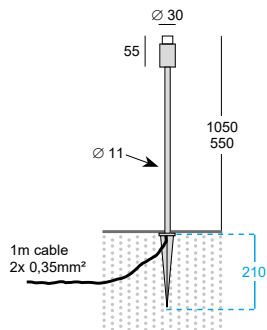
IP65

350mA

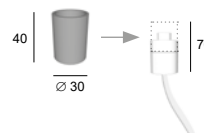
IK06



**350mA**  
**1,1W - 3,2W**



The 1050mm version is completely flexible but unstable, it is necessary to find the point of balance during installation and maybe fixed one part of the rod.



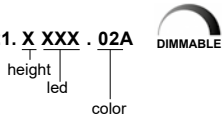
**Sami-flex AG**

**code: 7021.AC01.02A**

**Anti-glare accessory**  
 Ø 30 mm Height: 40mm

max. efficacy  
 132lm/W

code: 7021. X XXX . 02A



	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

**HEIGHT**

- 1 550 mm
- 2 1050 mm

**LED**

- D13** 1,1W - 4000K
- D32** 3,2W - 4000K
- W13** 1,1W - 2700K
- W32** 3,2W - 2700K

**COLOR**

- 02A** Anodized black

2200K / 3000K / 5000K = on request

# Sami-flex

## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



with Anti-glare ring ref: 7021.AC01.02A



with Anti-glare ring ref: 7021.AC01.02A

on request





Lena Pro-S-A

**DESCRIPTION**

Body made in solid anodized aluminum  
 Screws in stainless steel  
 Degree of protection IP66 - IK07  
 With anti-glare ring included  
 Safety clear plexiglass  
 Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable



IP66

350mA

IK06



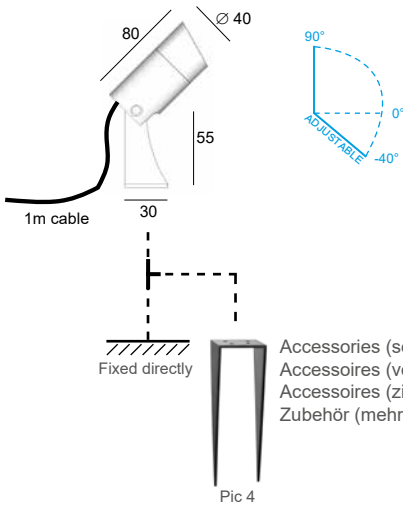
**ACCESSORIES**

Led driver AC/CC from 200mA to 350mA  
 Led driver DC/CC (12-36VDC/200mA to 350mA)  
 Spike for ground fixing - Pic 4 ref: 804.04.02A  
 Anti-glare honeycomb - Louver ref: X060.029.3  
 IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Other cable length (customized)  
 Base for strap around a tree  
 Other anodized color  
 Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K

**350mA**  
**4,2W**



Fixed directly  
 Accessories (see more details next pages)  
 Accessoires (voir plus de détails pages suivantes)  
 Accessoires (zie meer details volgende pagina's)  
 Zubehör (mehr Details auf den folgenden Seiten)

Pic 4

max. efficacy 87lm/W

	Typical luminous flux (lm)	
	200mA 2,3W	350mA 4,2W
2700 K	190	310
3000 K	200	325
4000 K	200	325

code: 7024A. **XX** **XXX** . **XX**  
 led power color



**LED**

27	2700K
30	3000K
40	4000K

**POWER**

410	4,2W - 10°
440	4,2W - 40°

**COLOR**

02A	Anodized black
32D	Anodized aluminum
33	Anodized bronze

Led 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισίσεων.

# Lena PRO S-A



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



Lena Base for Strap  
(on request)



Lena Pro-S-B

**DESCRIPTION**

Body made in solid anodized aluminum  
 Screws in stainless steel  
 Degree of protection IP66 - IK07  
 With anti-glare ring included  
 Safety clear plexiglass  
 Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable



IP66

**ACCESSORIES**

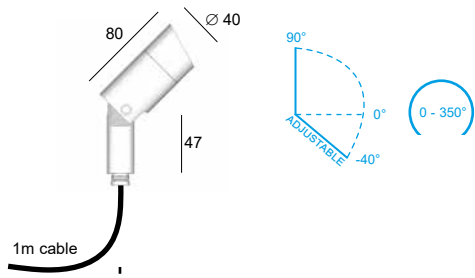
350mA Led driver AC/CC from 200mA to 350mA  
 Led driver DC/CC (12-36VDC/200mA to 350mA)  
 IK06 Base & stem for ground/wall/ceiling  
 Stem with spike for ground fixing: Stem D  
 Anti-glare honeycomb - Louver ref: X060.029.3  
 IP68 connection - Connex 2 / 3 / 4



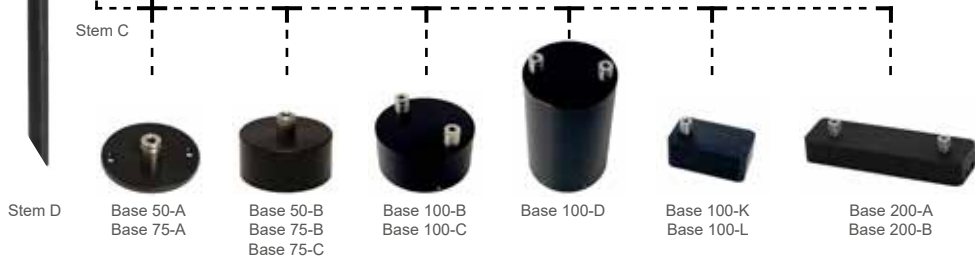
**ON REQUEST**

Other cable length (customized)  
 Other anodized color  
 Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K

**350mA**  
**4,2W**



Accessories (see more details next pages)  
 Accessoires (voir plus de détails pages suivantes)  
 Accessoires (zie meer details volgende pagina's)  
 Zubehör (mehr Details auf den folgenden Seiten)



max. efficacy 87lm/W

	Typical luminous flux (lm)	
	200mA 2,3W	350mA 4,2W
2700 K	190	310
3000 K	200	325
4000 K	200	325

code: 7024B. XX XXX . XX

led power color

**LED**

27	2700K
30	3000K
40	4000K

**POWER**

410	4,2W - 10°
440	4,2W - 40°

**COLOR**

02A	Anodized black
32D	Anodized aluminum
33	Anodized bronze

Led 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

• Please refer to the information pages for the specific characteristics of anodised finishes.  
 • Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.  
 • Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.  
 • Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.  
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# Lena PRO S-B

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x LENA PRO S-B code: 7024B.27440.33  
with fixation M14, only for spécial project.



1 x LENA PRO S-B code: 7024B.27440.33  
1 x BASE 50-B code: BASE.050B.33



1 x LENA PRO S-B code: 7024B.27440.02A  
1 x BASE 100-L code: BASE.100L.02A  
1 x DRIVER 6W code: DC0350.006.65D0



2 x LENA PRO S-B code: 7024B.27440.02A  
1 x BASE 200-B code: BASE.200B.02A  
1 x DRIVER 10W code: DC0350.010.65D1



1 x LENA PRO S-B code: 7024B.27440.02A  
1 x STEM D code: TI20.050.SK.02A



2 x LENA PRO S-B code: 7024B.27440.02A  
1 x BASE 100-C code: BASE.100C.02A  
1 x DRIVER 10W code: DC0350.010.65D1



Lena Pro-M-A



IP66

500mA

IK07



**DESCRIPTION**

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP66 - IK07  
With anti-glare ring included  
Safety clear plexiglass  
Led COB 500mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

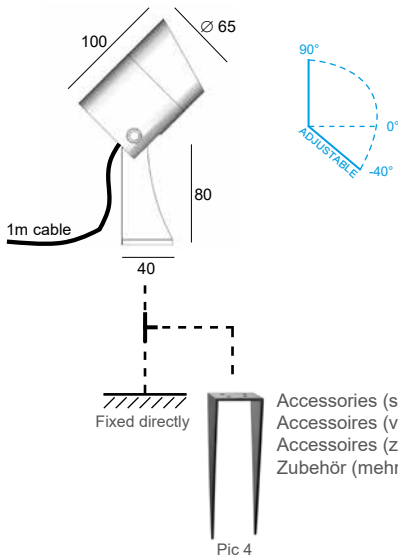
**ACCESSORIES**

Led driver AC/CC from 200mA to 500mA  
Led driver DC/CC (12-36VDC/200mA to 500mA)  
Spike for ground fixing - Pic 4 ref: 804.04.02A  
Anti-glare honeycomb - Louver ref: X060.050.3  
IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Other led color: 2200K / 5000K  
Other cable length (customized)  
Base for strap around a tree  
Other anodized color

**500mA**  
**9,5W**



Accessories (see more details next pages)  
Accessoires (voir plus de détails pages suivantes)  
Accessoires (zie meer details volgende pagina's)  
Zubehör (mehr Details auf den folgenden Seiten)

Pic 4

max. efficacy  
141lm/W

	Typical luminous flux (lm)	
	350mA 6W	500mA 9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 7025A. **XX** **XXX** . **XX**  
led power color



**LED**

**27** 2700K  
**30** 3000K  
**40** 4000K

**POWER**

**910** 9,5W - 10°  
**925** 9,5W - 25°  
**940** 9,5W - 40°

**COLOR**

**02A** Anodized black  
**32D** Anodized aluminum  
**33** Anodized bronze

2200K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
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# Lena PRO M-A



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



Lena Base for Strap  
(on request)



Lena Pro-M-B



IP66

500mA

IK06



## DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP66 - IK07  
With anti-glare ring included  
Safety clear plexiglass  
Led COB 500mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

## ACCESSORIES

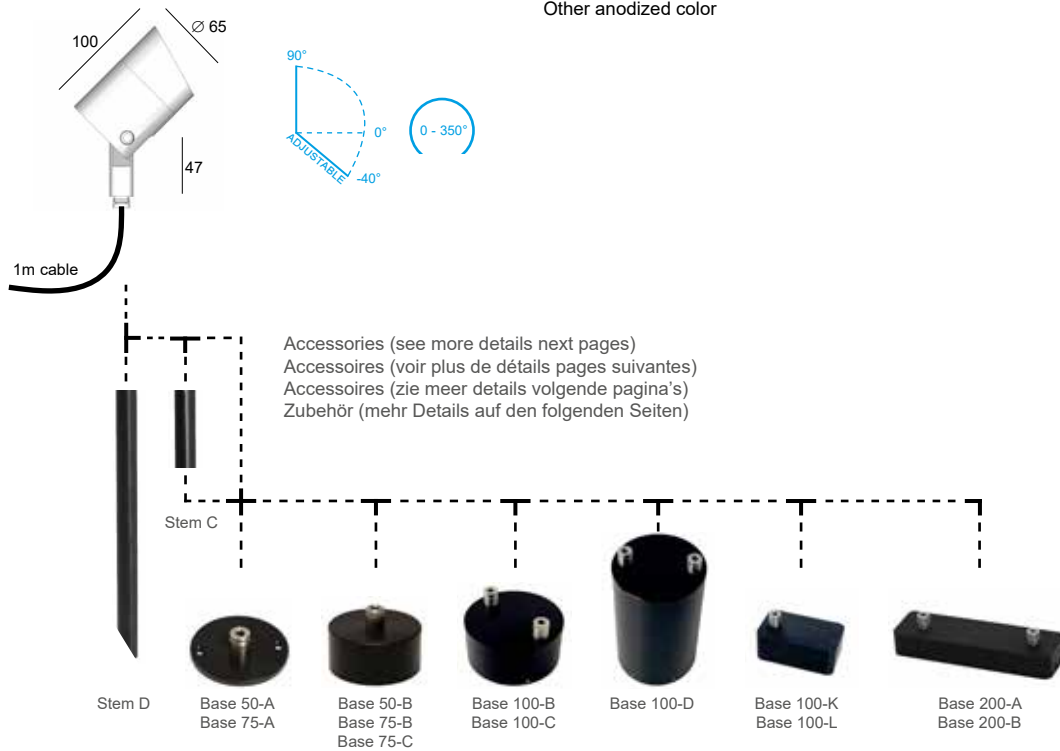
Led driver AC/CC from 200mA to 500mA  
Led driver DC/CC (12-36VDC/200mA to 500mA)  
Base & stem for ground/wall/ceiling  
Stem with spike for ground fixing: Stem D  
Anti-glare honeycomb - Louver ref: X060.050.3  
IP68 connection - Connex 2 / 3 / 4

## ON REQUEST

Other led color: 2200K / 5000K  
Other cable length (customized)  
Other anodized color

# 500mA

## 9,5W



max. efficacy  
141lm/W

	Typical luminous flux (lm)	
	350mA 6W	500mA 9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: **7025B.XX XXX.XX**  
led power color



### LED

**27** 2700K  
**30** 3000K  
**40** 4000K

### POWER

**910** 9,5W - 10°  
**925** 9,5W - 25°  
**940** 9,5W - 40°

### COLOR

**02A** Anodized black  
**32D** Anodized aluminum  
**33** Anodized bronze

2200K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
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# Lena PRO M-B

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x LENA PRO M-B  
1 x BASE 75-B

code: 7025B.27940.02A  
code: BASE.075B.02A



1 x LENA PRO M-B  
1 x STEM C  
1 x BASE 75-B

code: 7025B.27940.02A  
code: TI20.050.M1.02A  
code: BASE.075B.02A

1 x LENA PRO M-B  
1 x BASE 75-A

code: 7025B.27940.02A  
code: BASE.075A.02A



1 x LENA PRO M-B  
1 x BASE 100-L  
1 x DRIVER 10W

code: 7025B.27940.33  
code: BASE.100L.33  
code: DC0500.010.65D0

2 x LENA PRO M-B  
1 x BASE 200-B  
2 x DRIVER 6W

code: 7025B.27940.33  
code: BASE.200B.33  
code: DC0350.006.65D0



Lena GU-A

#### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP66 - IK07  
With anti-glare ring included  
Safety clear plexiglass  
Provided with 1m cable



#### ACCESSORIES

IP66 Spike for ground fixing - Pic 4 ref: 804.04.02A  
230V Anti-glare honeycomb - Louver ref: X060.050.3  
IK07 IP68 connection - Connex 2 / 3 / 4 / 6



#### ON REQUEST

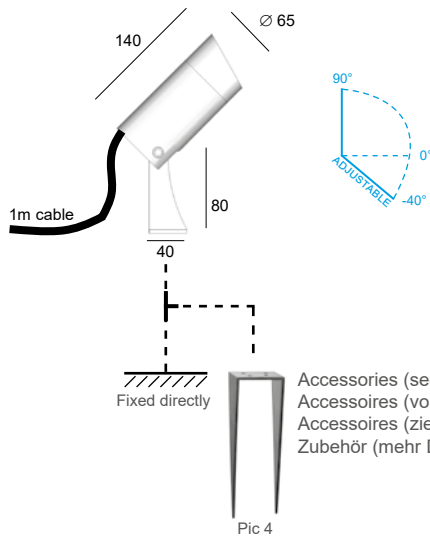


Other cable length (customized)  
Base for strap around a tree  
Other anodized color



# 230V

## GU10



Accessories (see more details next pages)  
Accessoires (voir plus de détails pages suivantes)  
Accessoires (zie meer details volgende pagina's)  
Zubehör (mehr Details auf den folgenden Seiten)

code: 7026A. GU . XX



color

#### BULB

GU GU10 LED (max. height 58mm)

#### COLOR

**02A** Anodized black  
**32D** Anodized aluminum  
**33** Anodized bronze

- Please refer to the information pages for the specific characteristics of anodised finishes.
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# Lena GU-A



## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



Lena Base for Strap  
(on request)



Lena GU-B

## DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP66 - IK07  
With anti-glare ring included  
Safety clear plexiglass  
Provided with 1m cable



## ACCESSORIES

IP66 Base & stem for ground/wall/ceiling  
230V Stem with spike for ground fixing: Stem D  
IK07 Anti-glare honeycomb - Louver ref: X060.050.3  
IP68 connection - Connex 2 / 3 / 4 / 6

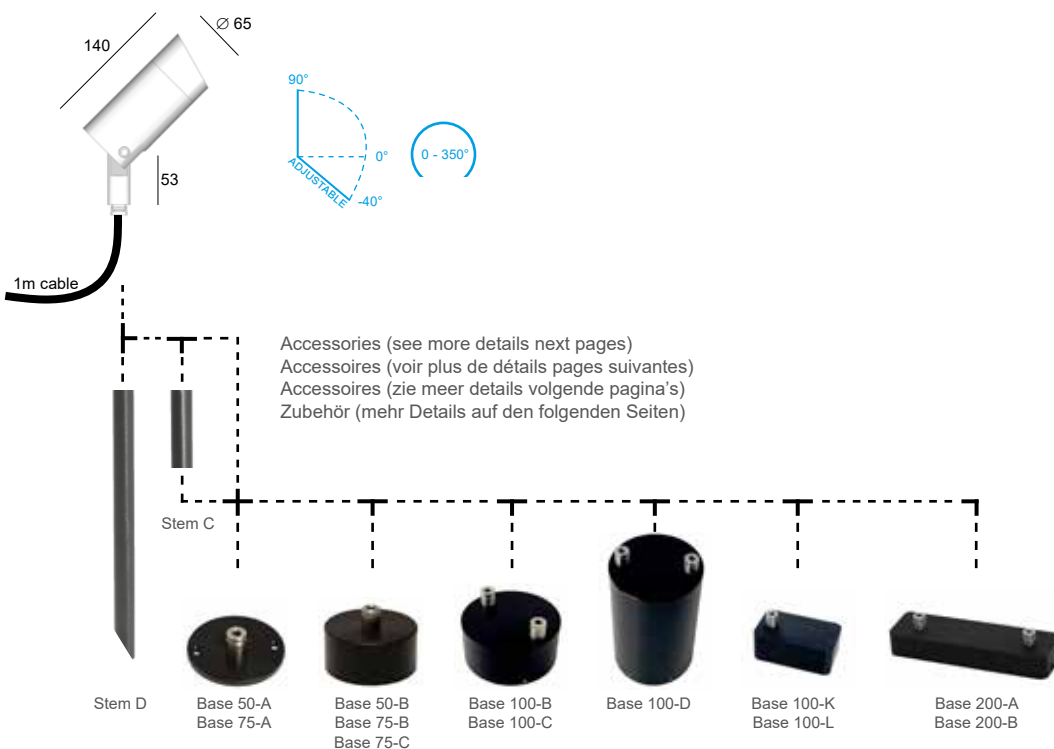


## ON REQUEST



Other cable length (customized)  
Other anodized color

# 230V GU10



code: 7026B. GU . XX



color

## BULB

GU GU10 LED (max. height 58mm)

## COLOR

02A Anodized black  
32D Anodized aluminum  
33 Anodized bronze

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
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# Lena GU-B



## Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



1 x LENA GU-B  
1 x BASE 75-B

code: 7026B.GU.32D  
code: BASE.075B.32D



2 x LENA GU-B  
1 x BASE 200-A

code: 7026B.GU.02A  
code: BASE.200A.02A

2 x LENA GU-B  
1 x BASE 100-B

code: 7026B.GU.33  
code: BASE.100B.33



2 x LENA GU-B  
1 x STEM C  
1 x STEM C  
1 x BASE 100-D

code: 7026B.GU.02A  
code: TI20.050.M1.02A  
code: TI20.020.M1.02A  
code: BASE.100D.02A

2 x LENA GU-B  
1 x STEM C  
1 x STEM C  
1 x BASE 100-D

code: 7026B.GU.32D  
code: TI20.050.M1.32D  
code: TI20.020.M1.32D  
code: BASE.100D.32D



Maxima-50

**DESCRIPTION**

Body made in solid stainless steel, copper or aluminum  
 Screws in stainless steel  
 Degree of protection IP65 - IK07  
 Safety plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Provided with 1m cable

**230V**  
**4W**

**ACCESSORIES**



Base & stem for ground/wall/ceiling  
 Stem with spike for ground fixing: Stem B / E  
 IP68 connection - Connex 2 / 3 / 4 / 6

IP65

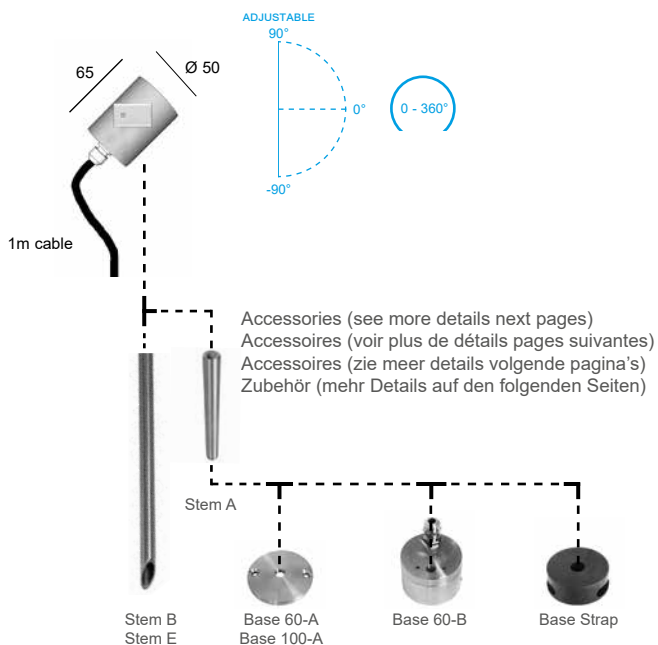
230V

**ON REQUEST**

IK07



Other anodized color  
 Other material: brushed brass  
 Other led color: 3000K / 4000K  
 Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
 Other cable length (customized)



code: **7004.W27.XX**  
 color



**LED**

**W27** 4W 230V - 2700K - 70°

**COLOR**

- 02A** Anodized black
- 04** Brushed stainless steel
- 21** Brushed copper
- 32** Anodized aluminum

max. efficacy 85lm/W

Typical luminous flux (lm)	
	4W
2700 K	315
3000 K	320
4000 K	340

3000K / 4000K = on request  
 3,2W or 6W 350mA : 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Maxima 50

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x MAXIMA 50  
1 x STEM B  
code: 7004.W27.21  
code: Tl.050.SP.K.21



1 x MAXIMA 50  
1 x STEM E  
code: 7004.W27.02A  
code: Tl12.080.Z.02A



1 x MAXIMA 50  
1 x STEM A  
1 x BASE 60-A  
code: 7004.W27.04  
code: Tl.010.M10A.04  
code: BASE.060A.04





### DESCRIPTION



Body made in solid stainless steel, brass or aluminum  
 Screws in stainless steel  
 Degree of protection IP65 - IK07  
 Safety clear plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Provided with 1m cable

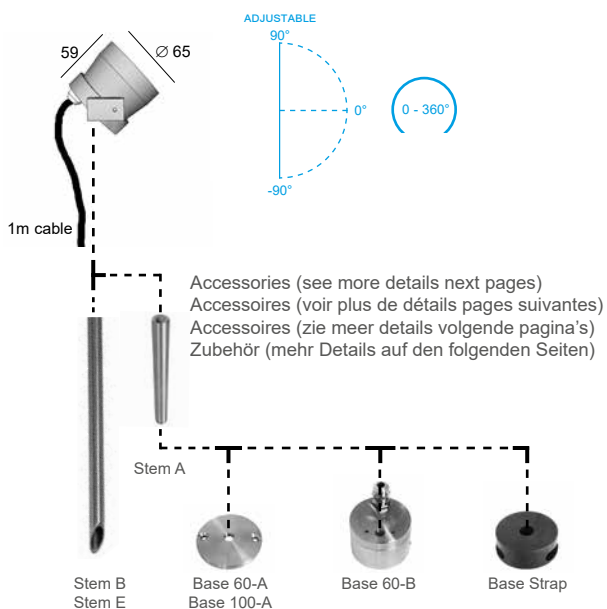
230V  
6W

### ACCESSORIES

-  Base & stem for ground/wall/ceiling
-  Stem with spike for ground fixing: Stem B / E
- Anti-glare ring - ref: AC.7002.AG.\_.\_
- IP65 Anti-glare honeycomb - Louver ref: X060.043.3
- 230V IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

-  Other anodized color
- Other led color: 4000K
- Other beam angle: 50°
-  Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K
- Other cable length (customized)







code: 7002. XXX . XX  
 led color



### LED

- W11** 6W 230V - 2700K - 15°
- W12** 6W 230V - 2700K - 36°
- W21** 6W 230V - 3000K - 15°
- W22** 6W 230V - 3000K - 36°

### COLOR

- 02A** Anodized black 
- 04** Brushed stainless steel 
- 07** Brushed brass 
- 32** Anodized aluminum 

max. efficacy 80lm/W

Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

50° = on request  
 4000K = on request  
 6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Maxima 65

## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x MAXIMA 65  
1 x STEM A  
1 x BASE 60-A

code: 7002.W22.07  
code: T1.010.M10A.07  
code: BASE.060A.02A



1 x MAXIMA 65  
1 x STEM B

code: 7002.W22.04  
code: T1.050.SPK.04



2 x MAXIMA 65  
2 x ANTI-GLARE 03  
1 x STEM B

code: 7002.W22.02A  
code: AC.7002.AG.02A  
code: T1.100.SPK.02A



Maxima-100

**DESCRIPTION**

Body made in solid anodized aluminum  
 Screws in stainless steel  
 Degree of protection IP65 - IK07  
 Safety clear plexiglass  
 Led 230V 10W CRI>90 3SDCM 54.000hrs L80 B10  
 Led 230V 20W CRI>80 3SDCM 42.000hrs L70 B10  
 Provided with 1m cable

**230V**  
**10W - 20W**

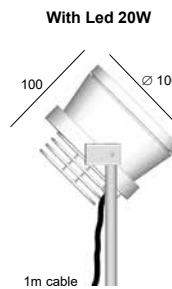
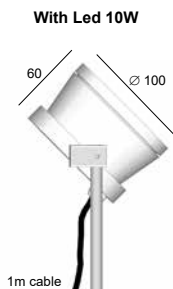
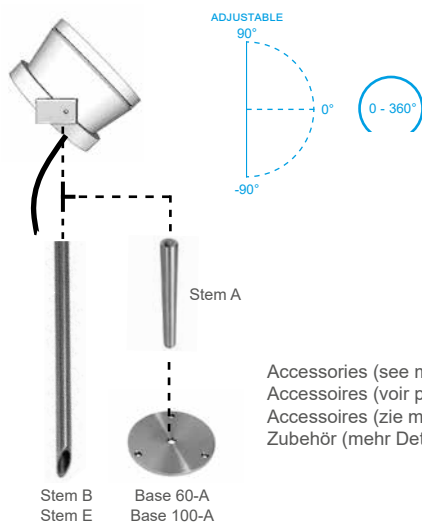


**ACCESSORIES**

Base & stem for ground/wall/ceiling  
 IP65 Stem with spike for ground fixing: Stem B / E  
 230V Anti-glare ring - ref: AC.7003.AG.\_.\_  
 IK07 Anti-glare honeycomb - Louver ref: X060.050.3 (10W) or X060.082.3 (20W)  
 IP68 connection - Connex 2 / 3 / 4 / 6

**ON REQUEST**

Other anodized color  
 Other cable length (customized)  
 Led 10W 230V 2700K / 4000K  
 Led 24W 700mA 2700K / 3000K / 4000K / 5000K



Accessories (see more details next pages)  
 Accessoires (voir plus de détails pages suivantes)  
 Accessoires (zie meer details volgende pagina's)  
 Zubehör (mehr Details auf den folgenden Seiten)

code: **7003.XXX.XX**  
 led color



**LED**

- W11** 10W 230V - 3000K - 16°
- W12** 10W 230V - 3000K - 40°
- W21** 20W 230V - 3000K - 16°
- W22** 20W 230V - 3000K - 40°

**COLOR**

- 02A** Anodized black
- 32** Anodized aluminum

max. efficacy 102lm/W

	Typical luminous flux (lm)	
	10W	20W
2700 K	930	
3000 K	950	1800
4000 K	1020	

Led 10W 2700K / 4000K = on request  
 24W 700mA 2700K / 3000K / 4000K / 5000K = on request

# Maxima 100



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



1 x MAXIMA 100  
1 x LOUVER  
1 x STEM B

code: 7003.W12.02A  
code: X060.050.3  
code: T1.100.SP.K.02A



1 x MAXIMA 100  
1 x ANTI-GLARE 04  
1 x STEM A  
1 x BASE 100-A

code: 7003.W12.02A  
code: AC.7003.AG.02A  
code: T1.010.M10A.02A  
code: BASE.100A.02A



Maxima-GU

**DESCRIPTION**

Body made in solid stainless steel, brass, copper or aluminum  
 Screws in stainless steel  
 Degree of protection IP66 - IK07  
 Safety clear plexiglass  
 Provided with 1m cable

**230V**  
**GU10**

**ACCESSORIES**



Base & stem for ground/wall/ceiling



Stem with spike for ground fixing: Stem B / E

IP66

Anti-glare ring - ref. AC.7001.AG.\_.\_

230V

IP68 connection - Connex 2 / 3 / 4 / 6

IK07

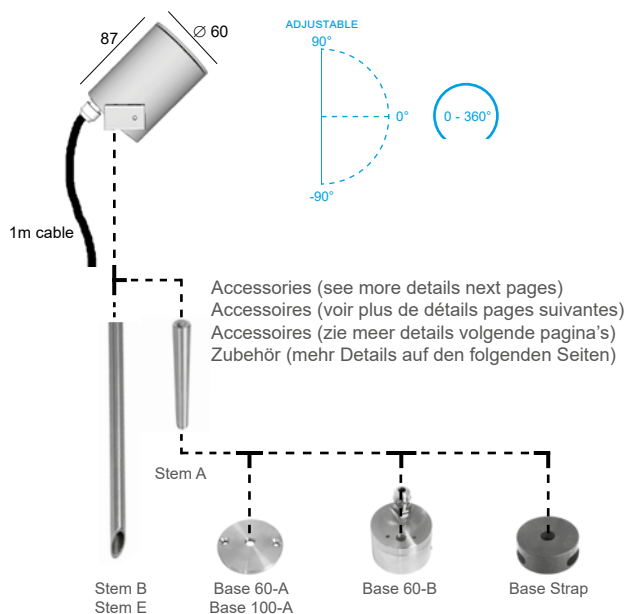
**ON REQUEST**



Other anodized color



Other cable length (customized)



code: 7001. GU . XX

color



**BULB**

GU GU10 LED (max. height 58mm)

**COLOR**

02A	Anodized black	
04	Brushed stainless steel	
07	Brushed brass	
21	Brushed copper	
32	Anodized aluminum	

• Please refer to the information pages for the specific characteristics of anodised finishes.  
 • Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.  
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 • Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.  
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# Maxima GU



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



3 x MAXIMA-GU code: 7001.GU.02A  
3 x STEM B code: TI.100.SPK.02A



7001.01.02A

3 x MAXIMA-GU code: 7001.GU.02A  
3 x STEM B code: TI.100.SPK.02A



example with 2 x Maxima-50 copper

2 x MAXIMA-50  
1 x LINE-UP

code: 7004.W27.21  
code: 7007.050.21

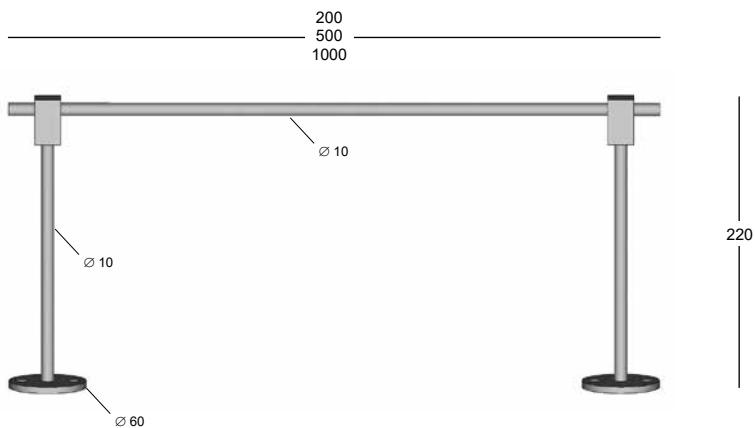
## Line-Up

### DESCRIPTION

Body made in solid stainless steel, brass, copper or aluminum  
Screws in stainless steel

### ON REQUEST

Other dimensions (customized)  
Other anodized color



code: 7007. XXX . XX

height |  
color

### LENGTH

**020** 200 mm  
**050** 500 mm  
**100** 1000 mm

### COLOR

**02A** Anodized black  
**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper  
**32** Anodized aluminum

# Line-Up



To use with «Maxima» flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



3 x MAXIMA-GU  
1 x LINE-UP

code: 7001.GU.04  
code: 7007.100.04

example with 3 x Maxima-GU stainless steel

only available with the following floodlights



# 230V

## 6W - 10W



Welex C1

### DESCRIPTION

Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

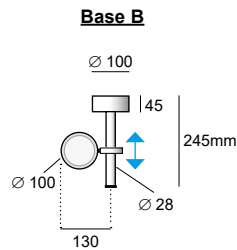
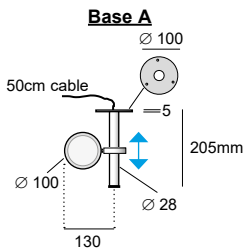
230V

IK06

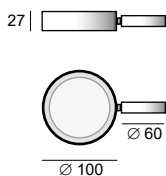


### ON REQUEST

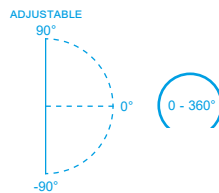
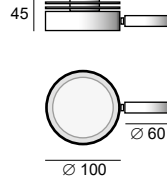
Another anodized color combination  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



### Spot 6W dimension



### Spot 10W dimension



max. efficacy  
102lm/W

code: 395 X . XXX . XX  
base led color  
DIMMABLE TRIAC

Typical luminous flux (lm)			
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

### TYPE OF BASE

- A** Base A = height 5mm  
**B** Base B = height 45mm

### LED

- 272** 6W 2700K - 230V  
**273** 10W 2700K - 230V  
**302** 6W 3000K - 230V  
**303** 10W 3000K - 230V

### COLOR

- 02A** Anodized black  
**34** Anodized matt gold  
**36** Anodized burgundy

4000K = on request

6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδωμάτων.

# Welex C1

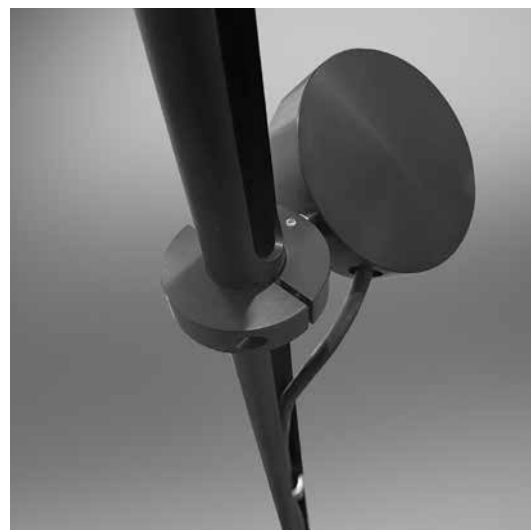


Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



other color combination = on request



# 230V 12W - 20W



Welex C2

## DESCRIPTION

Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK06



IP65

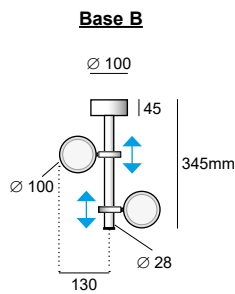
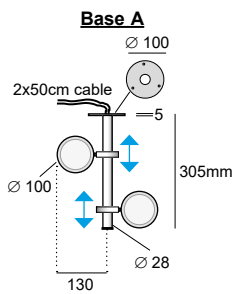
230V

IK06

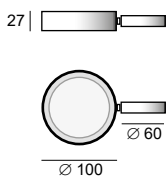


## ON REQUEST

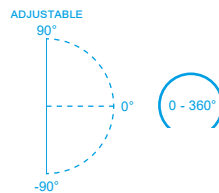
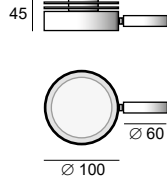
Another anodized color combination  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



### Spot 6W dimension



### Spot 10W dimension



max.  
efficacy  
102lm/W

code: 396 X . XXX . XX

base | led | color

DIMMABLE TRIAC

	Typical luminous flux (lm)		
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

## TYPE OF BASE

**A** Base A = height 5mm  
**B** Base B = height 45mm

## LED

**272** 2x 6W 2700K - 230V  
**273** 2x 10W 2700K - 230V  
**302** 2x 6W 3000K - 230V  
**303** 2x 10W 3000K - 230V

## COLOR

**02A** Anodized black  
**34** Anodized matt gold  
**36** Anodized burgundy

4000K = on request

6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

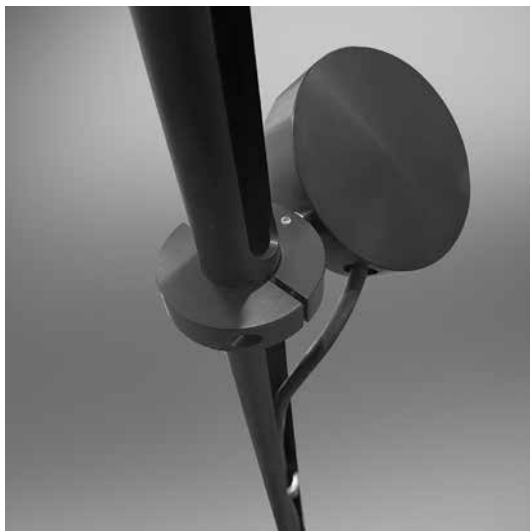
- Please refer to the information pages for the specific characteristics of anodised finishes.
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# Welex C2

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



# 230V

## 6W - 10W



Welex F1



IP65

230V

IK06

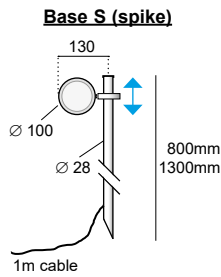
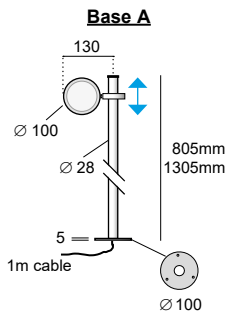


### DESCRIPTION

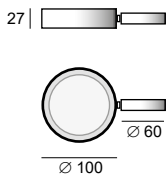
Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Provided with 1m cable  
Degree of protection IP65 - IK06

### ON REQUEST

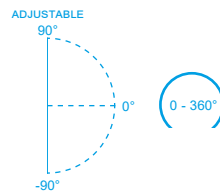
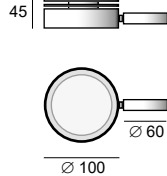
Other anodized color  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



**Spot 6W**  
dimension



**Spot 10W**  
dimension



max. efficacy  
102lm/W

code: 397 XX . XXX . XX DIMMABLE TRIAC  
base led color

Typical luminous flux (lm)			
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

### TYPE OF BASE

- A1** Base A + rod : 800mm
- A2** Base A + rod : 1300mm
- S1** Rod with spike : 800mm
- S2** Rod with spike : 1300mm

### LED

- 272** 6W 2700K - 230V
- 273** 10W 2700K - 230V
- 302** 6W 3000K - 230V
- 303** 10W 3000K - 230V

### COLOR

- 02A** Anodized black

4000K = on request  
6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

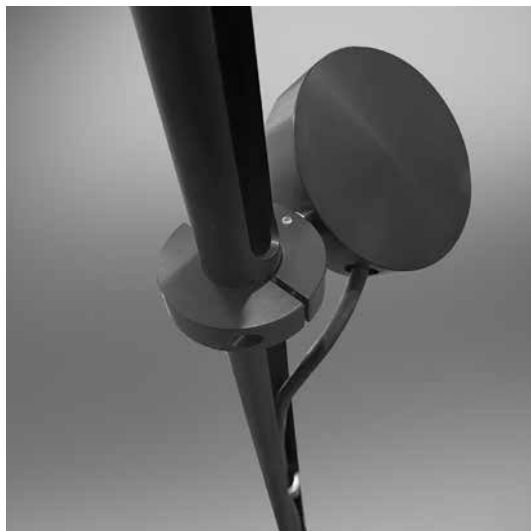
- Please refer to the information pages for the specific characteristics of anodized finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
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# Welex F1

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



# 230V

## 12W - 20W



Welex F2



IP65

230V

IK06

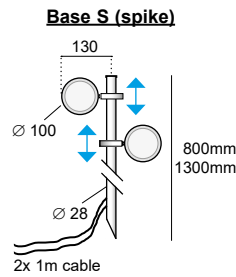
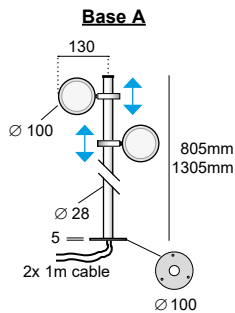


### DESCRIPTION

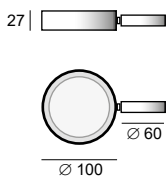
Body made in anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Provided with 1m cable  
Degree of protection IP65 - IK06

### ON REQUEST

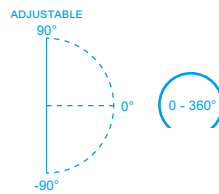
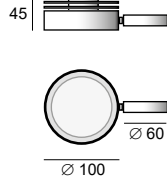
Other anodized color  
Painted in RAL colors  
Other led color: 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other dimensions (customized)



**Spot 6W**  
dimension



**Spot 10W**  
dimension



code: 398 XX . XXX . XX DIMMABLE TRIAC  
base led color

max. efficacy 102lm/W

	Typical luminous flux (lm)		
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

### TYPE OF BASE

**A1** Base A + rod : 800mm  
**A2** Base A + rod : 1300mm  
**S1** Rod with spike : 800mm  
**S2** Rod with spike : 1300mm

### LED

**272** 2x 6W 2700K - 230V  
**273** 2x 10W 2700K - 230V  
**302** 2x 6W 3000K - 230V  
**303** 2x 10W 3000K - 230V

### COLOR

**02A** Anodized black

4000K = on request  
6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

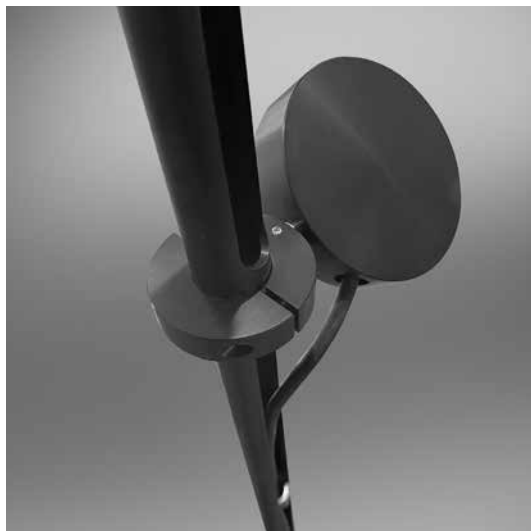
- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
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# Welex F2

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT





Cylinder S

#### DESCRIPTION

Body made in solid stainless steel, brass, copper or aluminum  
Screws in stainless steel  
Degree of protection IP66 - IK07  
Safety clear plexiglass  
Provided with 1m cable

230V  
GU10

#### ACCESSORIES



Base & stem for ground/wall/ceiling  
Stem with spike for ground fixing: Stem B / E



Anti-glare ring - ref: AC.7001.AG: \_\_ \_

IP66

Anti-glare honeycomb - Louver ref: X060.050.3

230V

IK07

#### ON REQUEST

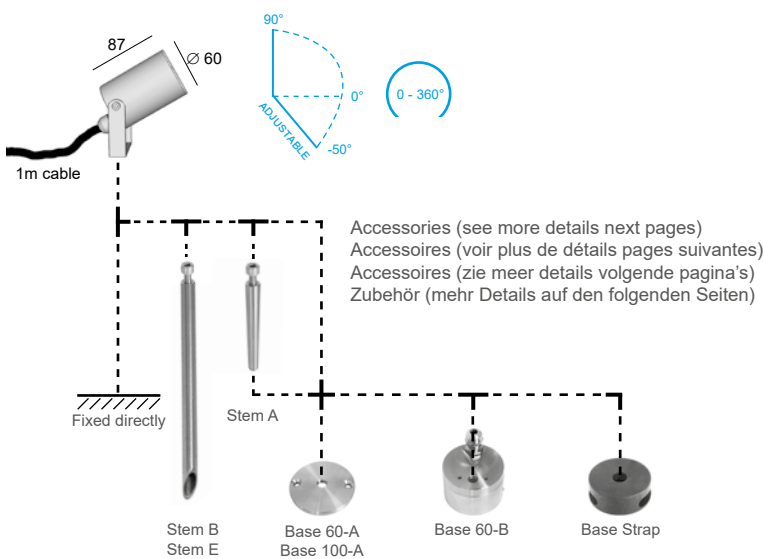


Other anodized color

Painted in RAL colors



Other cable length (customized)



code: 240. GU . XX

color



DIMMABLE

#### BULB

GU GU10 LED (max. height 58mm)

#### COLOR

02A	Anodized black	
04	Brushed stainless steel	
07	Brushed brass	
21	Brushed copper	
32	Anodized aluminum	

- Please refer to the information pages for the specific characteristics of anodized finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
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- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδειώσεων.

# Cylinder S

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



1 x CYLINDER S  
1 x STEM B

code: 240.GU.04  
code: Tl.100.SP.K.04

240.01.04



1 x CYLINDER S  
1 x BASE 60-B

code: 240.GU.04  
code: BASE.060B.04

# 230V GU10



Max FL

## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02

## ON REQUEST

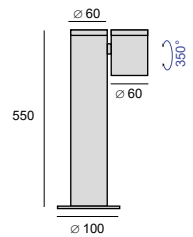
Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Available with 2 adjustable spotlights



IP65

230V

IK07



Fixed directly



Pic 1

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 975. GU . XX

color



## BULB

GU GU10 LED (max. height 56mm)

## COLOR

**02** Black  
**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper  
**32** Anodized aluminum  
**39** Grey

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
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# Max FL

## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



With 2 adjustable spotlights on request



# 230V

## 6W - 10W



Saturn Led

### DESCRIPTION

Body made in solid stainless steel, brass or aluminum  
Screws in stainless steel  
Degree of protection IP67 - IK10  
Safety extra clear glass 10mm thickness  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Provided with 1m cable

### ACCESSORIES

Base & stem for ground/wall/ceiling  
Stem with spike for ground fixing: Stem B / E  
Anti-glare honeycomb - Louver ref: X060.043.3  
Anti-glare ring - ref: AC.8029.AG.\_.\_  
IP68 connection - Connex 2 / 3 / 4 / 5

### ON REQUEST

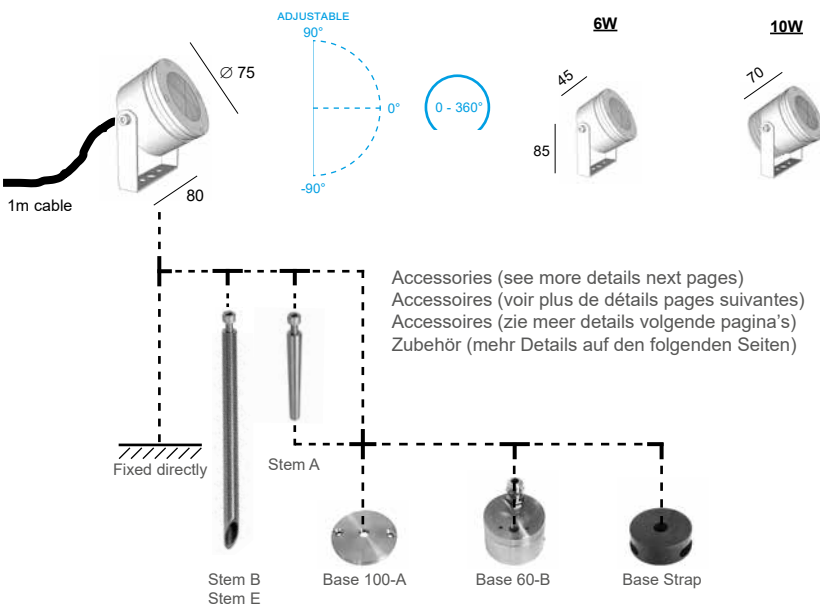
Other anodized color  
Other led color: 2700K / 4000K  
Other beam angle: 50°  
Other cable length (customized)



IP67

230V

IK10



with Anti-glare ring

code: 7006. XXX . XX  
led color



### LED

**W21** 6W 230V - 3000K - 15°  
**W22** 6W 230V - 3000K - 36°  
**W41** 10W 230V - 3000K - 15°  
**W42** 10W 230V - 3000K - 36°

### COLOR

**02A** Anodized black  
**07** Brushed brass  
**16** Brushed stainless steel 316L  
**32** Anodized aluminum

max. efficacy  
102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

50° = on request  
2700K / 4000K = on request

# Saturn Led



## Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT



# 350-500mA

## 6W - 17W



Saturn HP led

### DESCRIPTION

Body made in solid stainless steel, brass or aluminum  
Screws in stainless steel  
Degree of protection IP68 - IK10  
Safety extra clear glass 10mm thickness  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

### ACCESSORIES

Led driver AC/CC 350mA or 500mA CC  
Base & stem for ground/wall/ceiling  
Stem with spike for ground fixing: Stem B / E  
Anti-glare honeycomb - Louver ref: X060.043.3  
Anti-glare ring - ref: AC.8029.AG.\_.\_  
IP68 connection - Connex 2 / 3 / 4

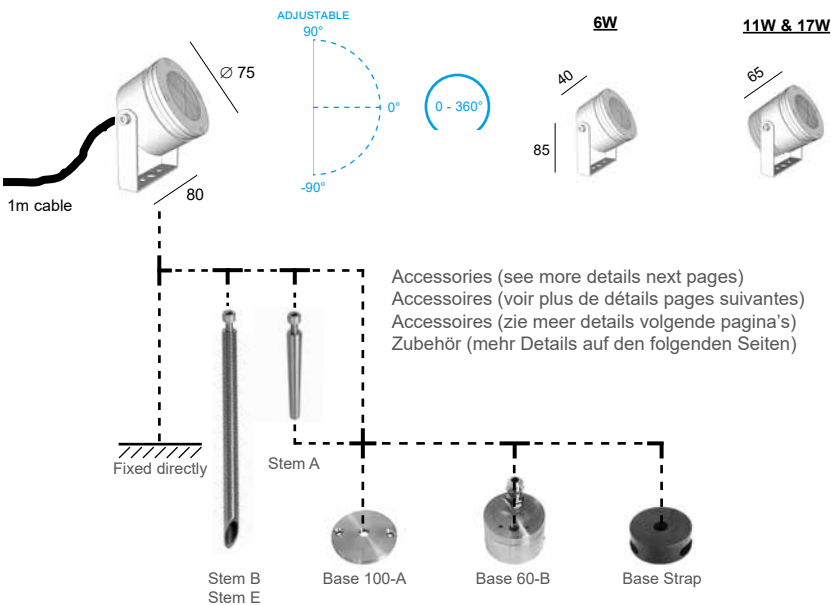
### ON REQUEST

Other anodized color  
Other led color: 2200K / 3000K / 5000K  
Other beam angle: 36°  
Other cable length (customized)



IP68

IK10



code: 8029.A XXX.XX

Led  
Power  
Angle  
Color



max. efficacy  
142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

### LED

**D** 4000K  
**W** 2700K

### POWER

**0** 6W - 350mA  
**1** 11W - 350mA  
**2** 17W - 500mA

### ANGLE

**1** 15°  
**3** 50°

### COLOR

**02A** Anodized black  
**07** Brushed brass  
**16** Brushed stainless steel 316L  
**32** Anodized aluminum

36° = on request

2200K / 3000K / 5000K = on request

# Saturn HP Led



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



with Anti-glare ring



# 230V

## 6W - 17W



Saturn HP led 230V

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Degree of protection IP65 - IK10  
Safety extra clear glass 10mm thickness  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated



IP65

230V

IK10

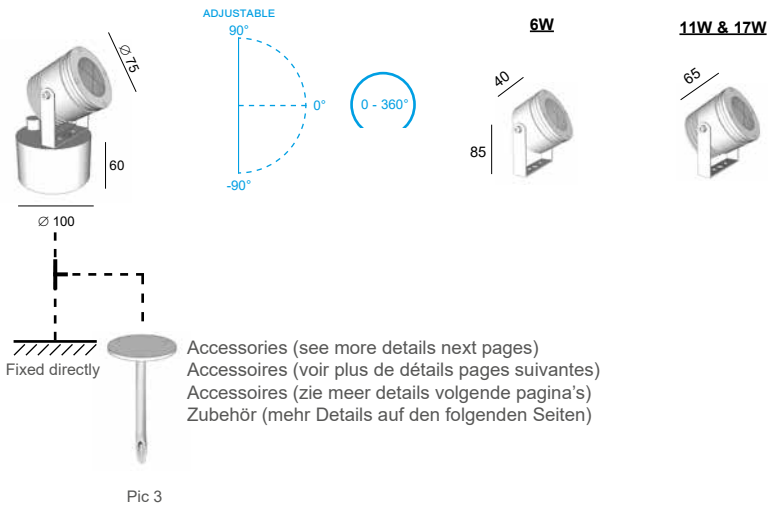


### ACCESSORIES

Spike for ground fixing - Pic 3 ref: 804.00.32  
Anti-glare honeycomb - Louver ref: X060.043.3  
Anti-glare ring - ref: AC.8029.AG.\_.\_

### ON REQUEST

Other anodized color  
Other material: brass / s-steel 316L  
Other led color: 2200K / 3000K / 5000K  
Other beam angle: 36°



max.  
efficacy  
142lm/W

code: 8029.B XXX. XX

LED  
Power  
Angle  
Color

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

LED	POWER	ANGLE	COLOR
D 4000K	0 6W	1 15°	02A Anodized black
W 2700K	1 11W	3 50°	32 Anodized aluminum
	2 17W		

36° = on request

2200K / 3000K / 5000K = on request

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# Saturn HP Led



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT





Zax-S 10°

**DESCRIPTION**

Body made in solid anodized aluminum  
 Screws in stainless steel  
 Degree of protection IP66 - IK07  
 Safety clear plexiglass  
 Led module CRI>80 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable



IP66

200mA

IK07



**ACCESSORIES**

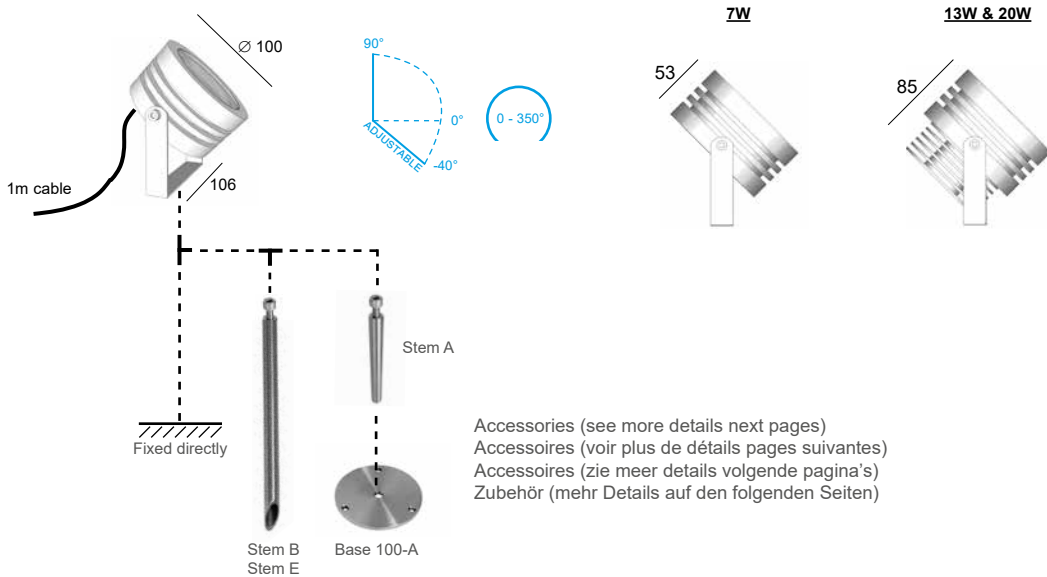
Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-36VDC/200mA to 500mA)  
 Base & stem for ground/wall/ceiling  
 IK07 Stem with spike for ground fixing: Stem B / E  
 Anti-glare honeycomb - Louver ref: X060.068.3  
 IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Other led color: 4000K  
 Led CRI>90  
 Other cable length (customized)  
 Other anodized color

# 200-500mA

## 7W - 20W



Accessories (see more details next pages)  
 Accessoires (voir plus de détails pages suivantes)  
 Accessoires (zie meer details volgende pagina's)  
 Zubehör (mehr Details auf den folgenden Seiten)

code: 352. XX X . XX

Led  
 Power  
 Color



max. efficacy 110lm/W

	Typical luminous flux (lm)		
	200mA 7W	350mA 13W	500mA 20W
2700 K	750	1350	2000
3000 K	800	1400	2100
4000 K	850	1450	2200

LED	POWER	COLOR
27 2700K	1 7W - 10° - 200mA	02A Anodized black
30 3000K	2 13W - 10° - 350mA	32D Anodized aluminum
	3 20W - 10° - 500mA	33 Anodized bronze

4000K = on request  
 CRI>90 = on request

# Zax-S 10°



Led flood light

EXTERIOR LIGHTING  
FLOOD LIGHT



model 7W



model 13W & 20W



Salsa



1 x SALSA code: 8091.W3.07  
1 x SALSA BASE code: AC.8091.07

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- 
- 
- 
- 

**DESCRIPTION**

Body made in solid brass or anodized aluminum  
Screws in brass or stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Provided with 1m cable

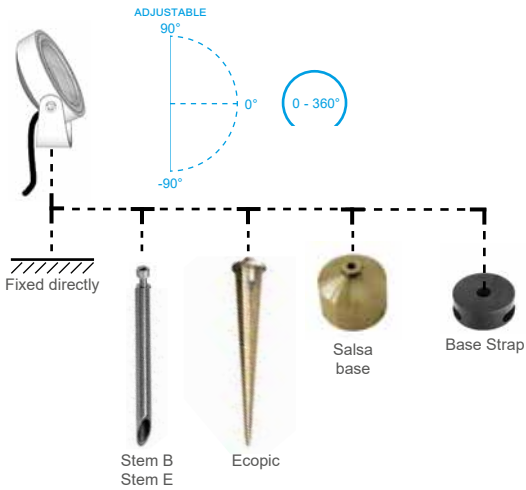
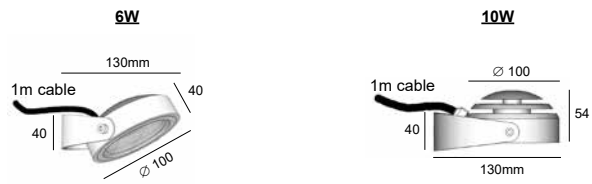
**230V**  
**6W - 10W**

**ACCESSORIES**

Base for ground/wall/ceiling - Salsa Base ref: AC.8091. \_\_  
Stem with spike for ground fixing: Stem B / E  
Spike for ground fixing - Ecopic ref: 805.00.07  
IP68 connection - Connex 2 / 3 / 4 / 6

**ON REQUEST**

Other led color: 2700K / 4000K  
Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other anodized color  
Other material: brushed copper  
Other cable length (customized)



Accessories (see more details next pages)  
Accessoires (voir plus de détails pages suivantes)  
Accessoires (zie meer details volgende pagina's)  
Zubehör (mehr Details auf den folgenden Seiten)

code: 8091. **XX** . **XX**  
led color

**LED**

- W2** 6W - 3000K
- W3** 10W - 3000K

2700K / 4000K = on request  
6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

**COLOR**

- 02A** Anodized black
- 07** Brushed brass

max. efficacy 102lm/W

	Weight (kg)	
	6W	10W
02A		
07		

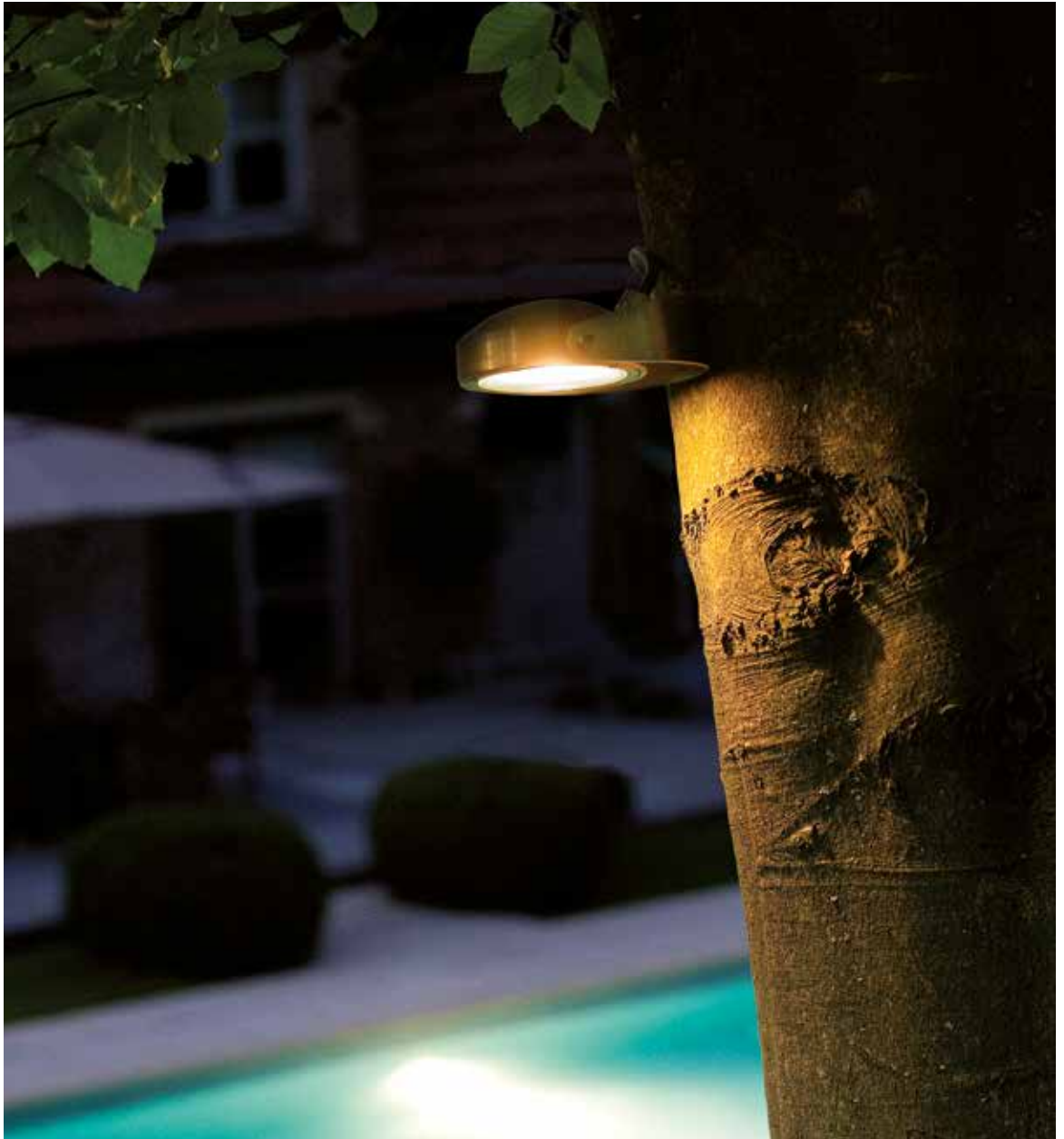
	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

# Salsa

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT





Salsa-S

**DESCRIPTION**

Head spot made in solid brass  
 flexible rod made in copper  
 Screws in brass  
 Degree of protection IP65 - IK07  
 Safety sandblasted plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Provided with 1m cable

**230V**  
**6W - 10W**

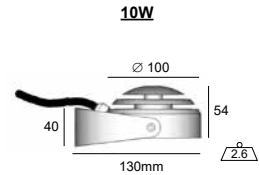
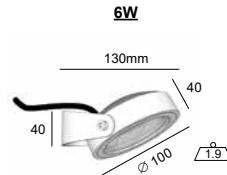
**ACCESSORIES**

IP68 connection - Connex 2 / 3 / 4 / 6

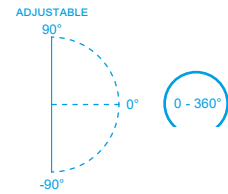
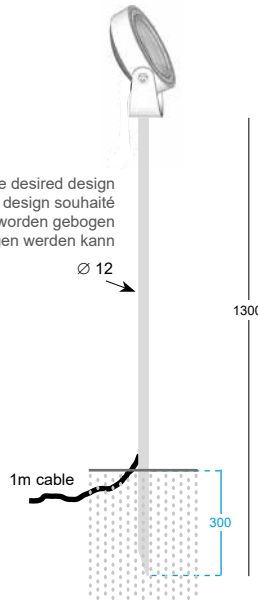
**ON REQUEST**

Other led color: 2700K / 4000K  
 Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
 Other cable length (customized)

- 
- 
- IP65
- 230V
- IK07
- 
- 



Straight rod to be bent on site according to the desired design  
 Tige droite à plier sur site selon le design souhaité  
 Rechte steel die ter plaatse in het gewenste ontwerp kan worden gebogen  
 Gerade Stange, die vor Ort nach dem gewünschten Design gebogen werden kann



Flexible but unstable, it is necessary to find the point of balance during installation.

code: 8092. **XXX** . 07  
 led



**LED**

**W2** 6W - 3000K  
**W3** 10W - 3000K

**COLOR**

**07** Brushed brass (flexible rod in copper)

2700K / 4000K = on request  
 6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

max. efficacy 102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

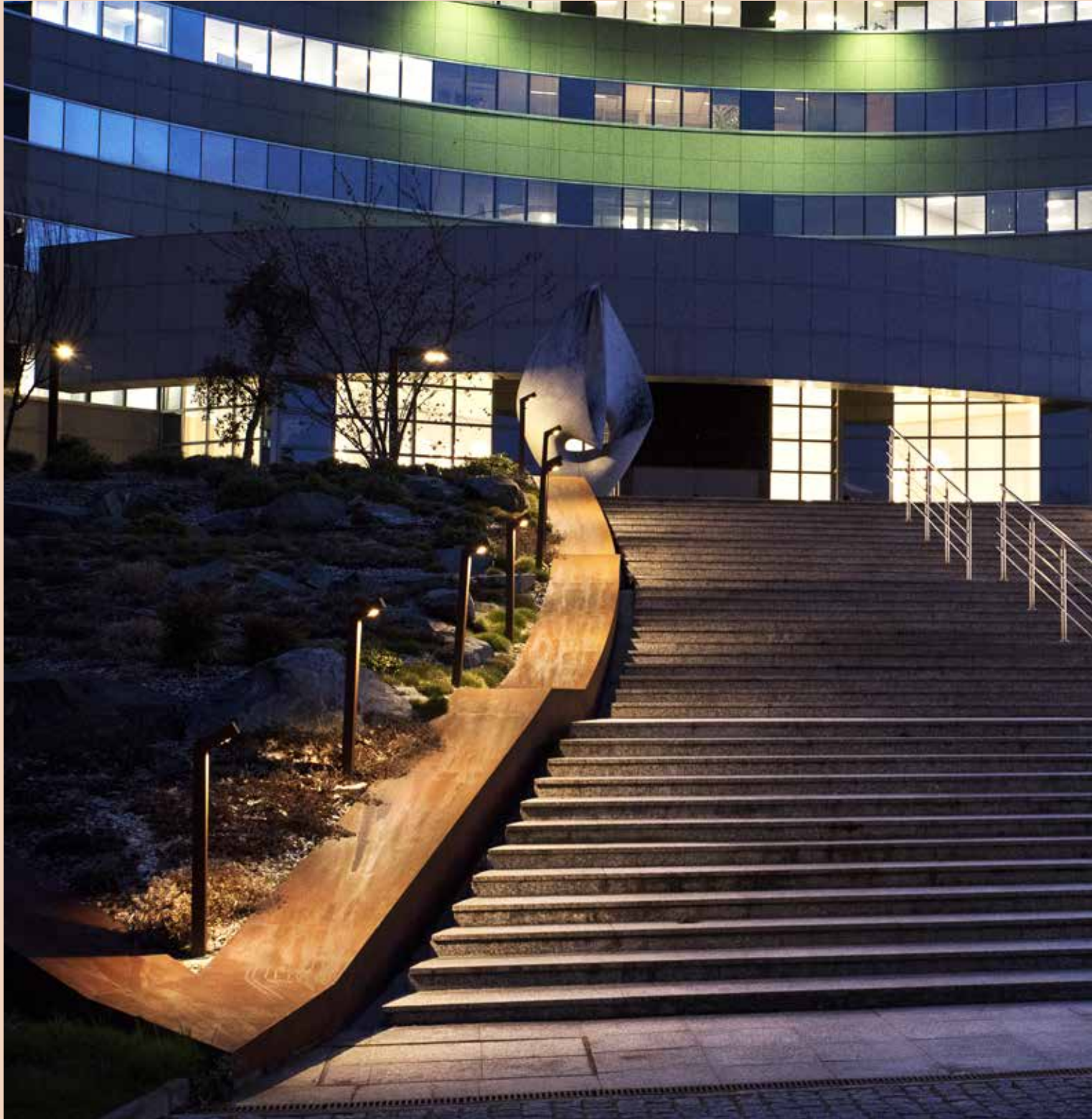
# Salsa-S

Led flood light



EXTERIOR LIGHTING  
FLOOD LIGHT





Torga FL

Agence CD&B / Photographie : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, immeuble Pablo Picasso à Nanterre, Île-de-France - INEDIT Lighting



Exterior

Garden bollard < 1,5m



Sami

**DESCRIPTION**

Body made in copper  
 Degree of protection IP65 - IK06  
 Safety sandblasted plexiglass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable



IP65

350mA

IK06



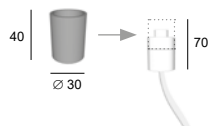
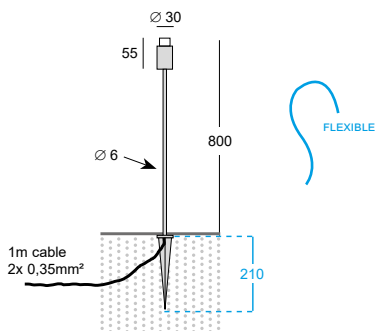
**ACCESSORIES**

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 Anti-glare ring - ref: 8031.AC01.21  
 IP68 connection - Connex 4 ref: X083

**ON REQUEST**

Other led color: 2200K / 3000K / 5000K  
 Other dimensions (customized)  
 Base plate for ground/wall/ceiling fixing  
 Other cable length (customized)

**350mA**  
**1,1W - 3,2W**



**Sami AG**

**code: 8031.AC01.21**

Anti-glare accessory  
 Ø 30 mm Height: 40mm

code: 8031 . XXX . 21  
 led



**LED**

- D13** 1,1W - 4000K
- D32** 3,2W - 4000K
- W13** 1,1W - 2700K
- W32** 3,2W - 2700K

2200K / 3000K / 5000K = on request

**COLOR**

- 21** Brushed copper

max. efficacy  
 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

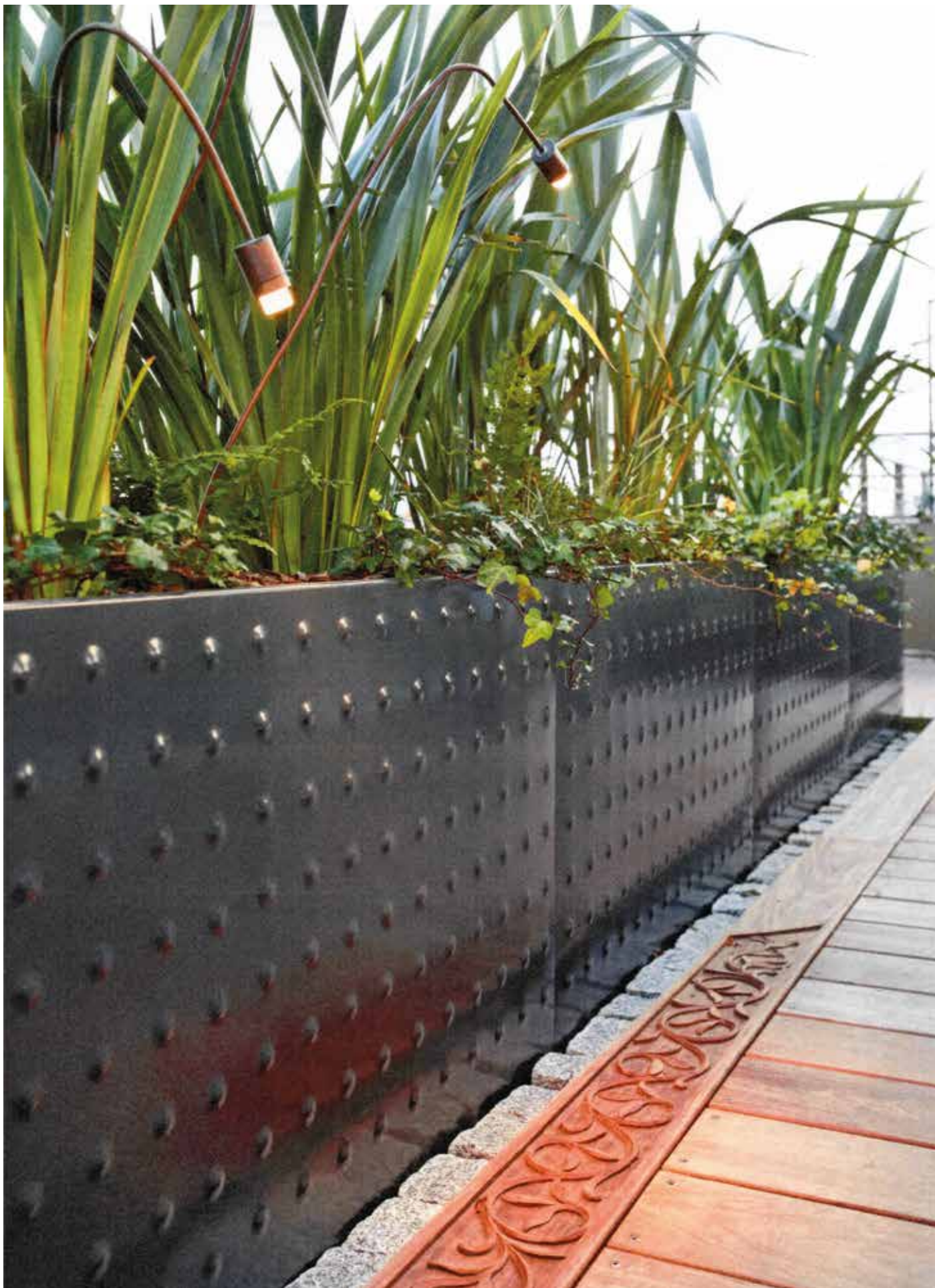
# Sami

## Led garden lamp

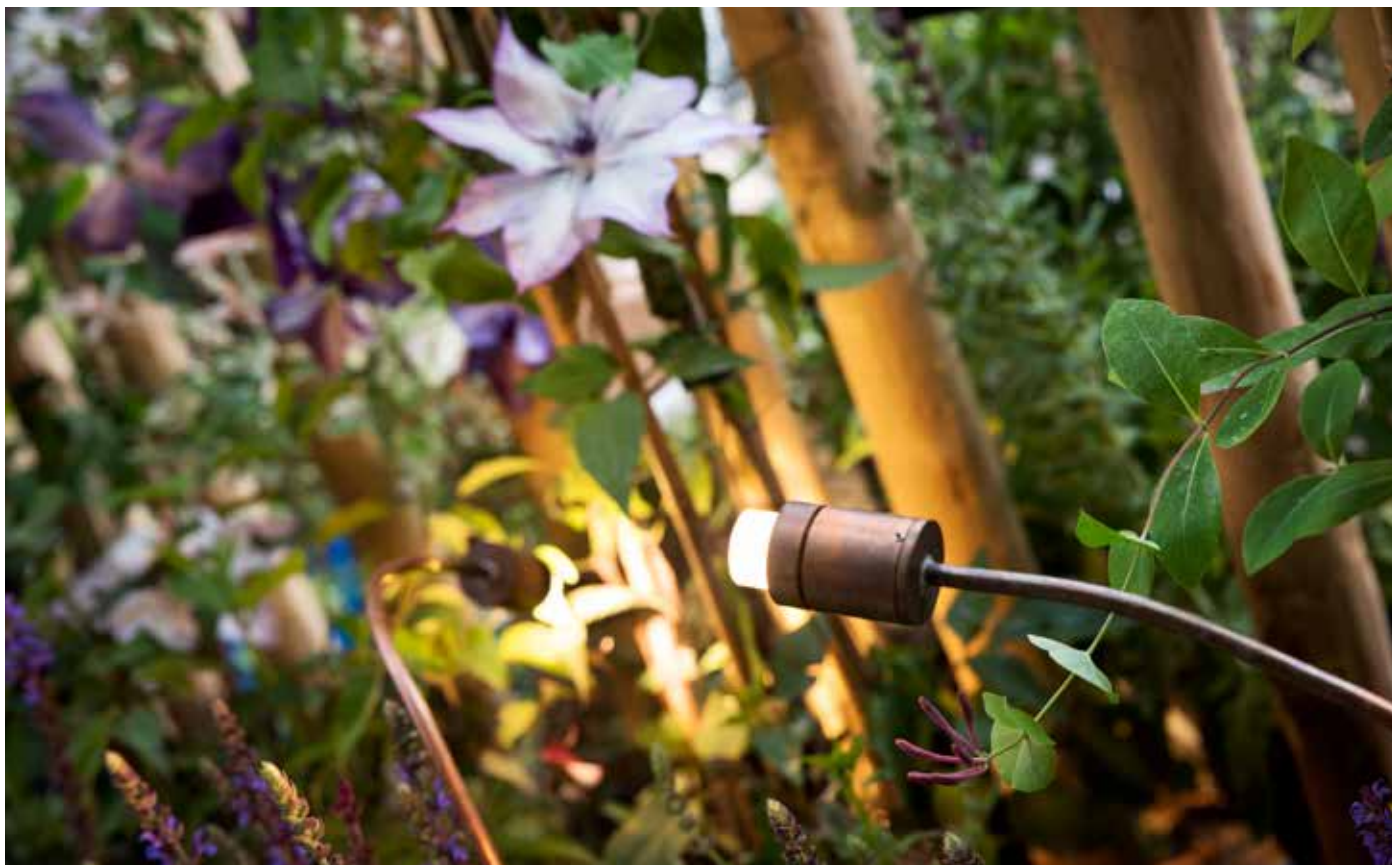


EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M





© Agence Christophe Gautrand & Associés Paysagistes / Photographies : Hugo Hébrard  
Aménagement de la terrasse de la Suite Royale Orientale de l'Hôtel Mandarin Oriental Paris.



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M





Sami-flex

**DESCRIPTION**

Body made in anodized aluminum  
 Flexible rod with polyolefin heat shrink tubing  
 Degree of protection IP65 - IK06  
 Safety sandblasted plexiglass  
 Led 350mA GRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable

**ACCESSORIES**

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 Anti-glare ring - ref: 7021.AC01.02A  
 IP68 connection - Connex 4 ref: X083

**ON REQUEST**

Other led color: 2200K / 3000K / 5000K  
 Base plate for ground/wall/ceiling fixing  
 Other cable length (customized)



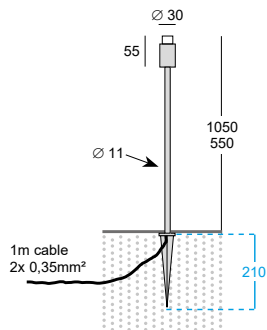
IP65

350mA

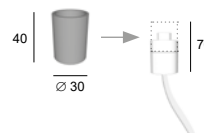
IK06



**350mA**  
**1,1W - 3,2W**



The 1050mm version is completely flexible but unstable, it is necessary to find the point of balance during installation and maybe fixed one part of the rod.



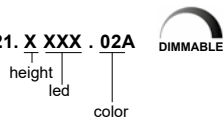
**Sami-flex AG**

**code: 7021.AC01.02A**

**Anti-glare accessory**  
 Ø 30 mm Height: 40mm

max. efficacy 132lm/W

code: 7021. X XXX . 02A



	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

**HEIGHT**

- 1 550 mm
- 2 1050 mm

**LED**

- D13** 1,1W - 4000K
- D32** 3,2W - 4000K
- W13** 1,1W - 2700K
- W32** 3,2W - 2700K

**COLOR**

- 02A** Anodized black

2200K / 3000K / 5000K = on request

# Sami-flex

## Led garden lamp



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



with Anti-glare ring ref: 7021.AC01.02A



with Anti-glare ring ref: 7021.AC01.02A

on request





Salsa-S

**DESCRIPTION**

Head spot made in solid brass  
 flexible rod made in copper  
 Screws in brass  
 Degree of protection IP65 - IK07  
 Safety sandblasted plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Provided with 1m cable

**230V**  
**6W - 10W**

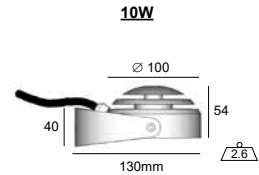
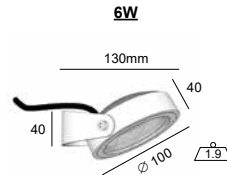
**ACCESSORIES**

IP68 connection - Connex 2 / 3 / 4 / 6

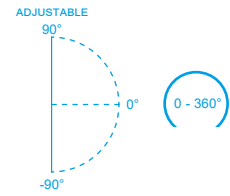
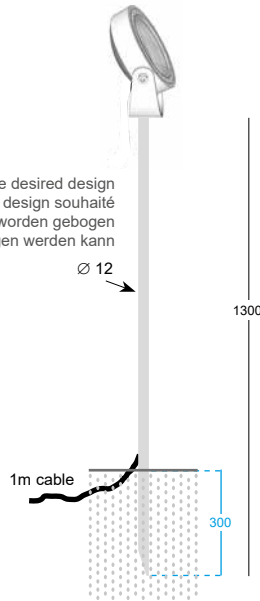
**ON REQUEST**

Other led color: 2700K / 4000K  
 Led 6W or 11W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
 Other cable length (customized)

- 
- 
- IP65
- 230V
- IK07
- 
- 



Straight rod to be bent on site according to the desired design  
 Tige droite à plier sur site selon le design souhaité  
 Rechte steel die ter plaatse in het gewenste ontwerp kan worden gebogen  
 Gerade Stange, die vor Ort nach dem gewünschten Design gebogen werden kann



Flexible but unstable, it is necessary to find the point of balance during installation.

code: 8092. **XXX** . 07  
 led



**LED**

**W2** 6W - 3000K  
**W3** 10W - 3000K

**COLOR**

**07** Brushed brass (flexible rod in copper)

2700K / 4000K = on request  
 6W or 11W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

max. efficacy 102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

# Salsa-S

Led garden lamp



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 350mA

## 1,1W - 3,2W



Dion

### DESCRIPTION

Body made in anodized aluminum or copper  
 Safety sandblasted plexiglass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable  
 Degree of protection IP65 - IK06

### ACCESSORIES

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 IP68 connection - Connex 4 ref: X083

### ON REQUEST

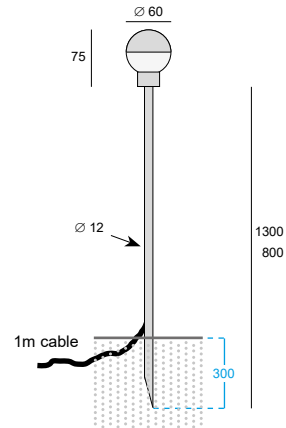
Base plate for ground/wall/ceiling fixing  
 Other material: brass / s-steel  
 Other anodized colors or RAL paint  
 Other led color: 2200K / 4000K / 5000K  
 Other dimensions (customized)



IP65

350mA

IK06



code: 394. X XXX . XX  
 height  
 led  
 color



### HEIGHT

1 800 mm  
 2 1300 mm

### LED

272 3,2W 2700K - 350mA  
 302 3,2W 3000K - 350mA

### COLOR

02A Anodized black  
 21 Copper

2200K / 4000K / 5000K = on request

max.  
 efficacy  
 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# Dion

## Led garden lamp



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



anodized matt gold = on request



# 350mA

## 1,1W - 3,2W



Mini Swapi

### DESCRIPTION

Body made in anodized aluminum or copper  
 Safety sandblasted plexiglass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable  
 Degree of protection IP65 - IK06

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 IP68 connection - Connex 4 ref: X083

### ON REQUEST

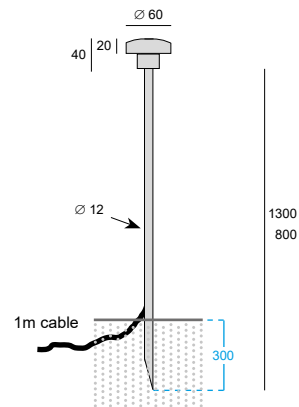
Base plate for ground/wall/ceiling fixing  
 Other material: brass / s-steel  
 Other anodized colors or RAL paint  
 Other led color: 2200K / 4000K / 5000K  
 Other dimensions (customized)




IP65

350mA

IK06



code: 393. X XXX . XX   
 height  
 led  
 color

### HEIGHT

1 800 mm  
 2 1300 mm

### LED

272 3,2W 2700K - 350mA  
 302 3,2W 3000K - 350mA

### COLOR

02A Anodized black  
 21 Copper

2200K / 4000K / 5000K = on request

max.  
 efficacy  
 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# Mini Swapi

Led garden lamp



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 350mA

## 1,1W - 3,2W



### DESCRIPTION

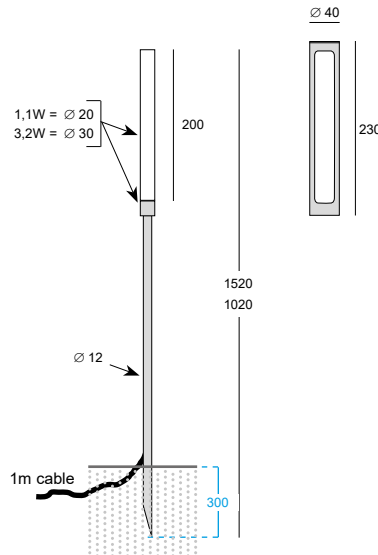
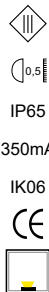
Body made in solid aluminum  
 Safety sandblasted plexiglass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable  
 Degree of protection IP65 - IK06

### ACCESSORIES

Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 IP68 connection - Connex 4 ref: X083


### ON REQUEST

Base plate for ground/wall/ceiling fixing  
 Other material: brass / copper / stainless steel  
 Only for led 3,2W 350mA: 2200K / 4000K / 5000K  
 Other anodized colors or RAL paint  
 Other dimensions (customized)



CoverSab 1

Reference	Price €
383.AC1._._	59.00

code: 383. X XXX . XX   
 height | led | color

### HEIGHT

1	1020 mm
2	1520 mm

2200K / 4000K / 5000K = on request

### LED

271	1,1W - 2700K
272	3,2W - 2700K
301	1,1W - 3000K
302	3,2W - 3000K

### COLOR

02A	Anodized black
33	Anodized bronze

max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# LightSaber

Led garden lamp



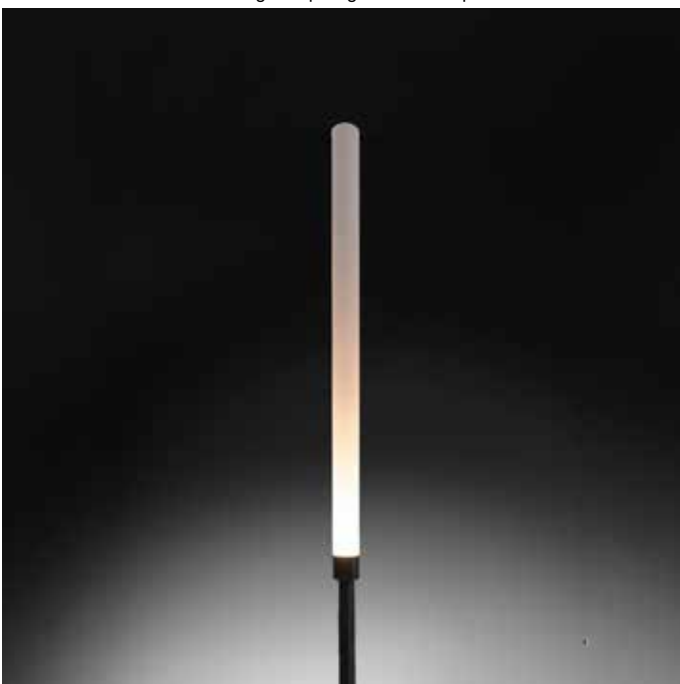
EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



other length of plexiglass = on request



with accessory "CoverSab 1"





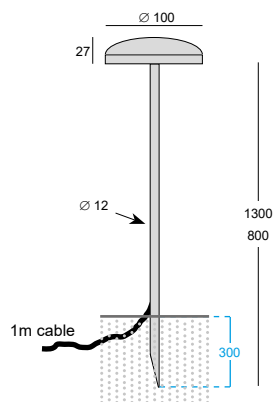
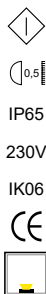
**DESCRIPTION**


Body made in anodized aluminum, copper or brass  
 Screws in stainless steel  
 Safety sandblasted plexiglass  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Provided with spike for ground fixing  
 Provided with 1m cable  
 Degree of protection IP65 - IK06

**230V**  
**6W**

**ON REQUEST**

Base plate for ground/wall/ceiling fixing  
 Painted in RAL colors  
 Other anodized color  
 Other dimensions (customized)  
 Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K



code: 7022. X XXX . XX   
 height | led | color

**HEIGHT**

- 1 800 mm
- 2 1300 mm





**LED**

- W27** 6W - 2700K
- W30** 6W - 3000K

**COLOR**

- 02A** Anodized black
- 07** Brushed brass
- 21** Brushed copper
- 32** Anodized aluminum
- 33** Anodized bronze

4000K = on request  
 3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

	Weight (kg)	
	800mm	1300mm
02, 32, 33	 0.80	 0.90
07, 21	 1.50	 1.70



Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

# Swapi

## Led garden lamp



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W



Disk

### DESCRIPTION

Body made in anodized aluminum, copper or brass  
Screws in stainless steel  
Degree of protection IP65 - IK07  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10



IP65

230V

IK07



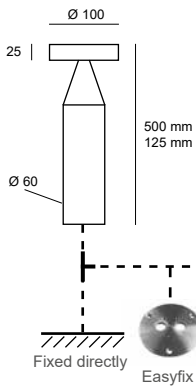
### ACCESSORIES

Base plate Ø 100mm - Easyfix ref: X100A. \_\_  
Spike for ground fixing - Pic 1 ref: 802.00.02

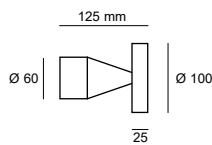
### ON REQUEST

Painted in RAL colors  
Other anodized color  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Power supply 24VDC included  
Other dimensions (customized)

### garden bollard



### wall lamp



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.



code: 340. X XXX . XX  
height led color



DIMMABLE TRIAC

### HEIGHT

1 125 mm  
2 500 mm

### LED

272 6W - 2700K  
302 6W - 3000K

### COLOR

02A Anodized black  
07 Brushed brass  
21 Brushed copper  
32 Anodized aluminum  
33 Anodized bronze

4000K = on request  
3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

max. efficacy 80lm/W

Typical luminous flux (lm)	
6W	
2700 K	460
3000 K	470
4000 K	480

- Please refer to the information pages for the specific characteristics of anodised finishes.
- Veuillez vous référer aux pages d'informations pour les caractéristiques particulières des surfaces anodisées.
- Raadpleeg de informatiepagina's voor specifieke kenmerken van geanodiseerde oppervlakken.
- Bitte beachten Sie die Informationsseiten zu den besonderen Eigenschaften eloxierter Oberflächen.
- Παρακαλώ συμβουλευτείτε τις σελίδες πληροφοριών για τα συγκεκριμένα χαρακτηριστικά των ανοδισίσεων.

# Disk

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 350mA

## 3,2W - 6W



Sonar

### DESCRIPTION

Body made in solid anodized aluminum or stainless steel 316L  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP66 - IK09  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 3m cable



IP66  
350mA

IK09

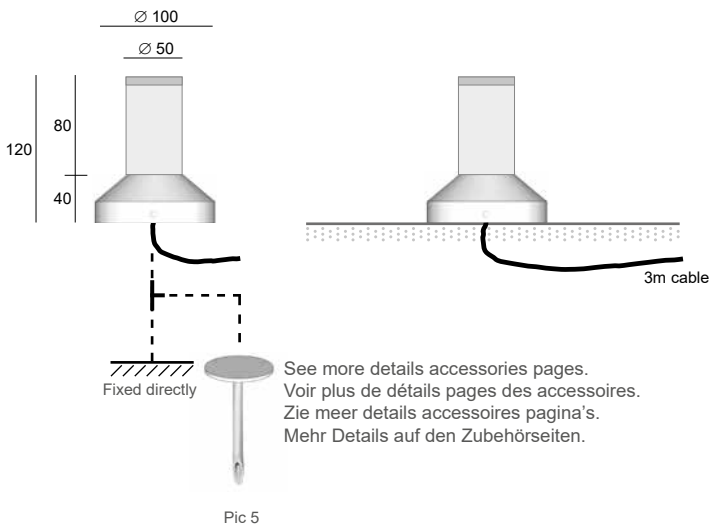


### ACCESSORIES

Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Spike for ground fixing - Pic 5 ref: 804.05.02A  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Led 6W 350mA 2200K / 5000K  
Other cable length (customized)  
Other anodized color



code: 366. XX X . XX

led  
power  
color



max.  
efficacity  
141lm/W

	Typical luminous flux (lm)	
	3,2W	6W
2700 K	355	725
3000 K	370	760
4000 K	395	805
5000 K	410	845

### LED

27 2700K  
30 3000K  
40 4000K

### POWER

2 6W 350mA

### COLOR

02A Anodized black  
16 Brushed stainless steel 316L  
32 Anodized aluminum  
33 Anodized bronze

2200K / 5000K = on request  
3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Sonar

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W



Stoumpi

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK06



IP65

230V

IK06

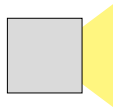
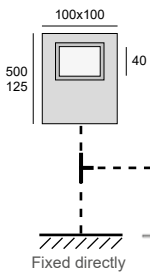


### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02

### ON REQUEST

Other RAL colors  
Dimmable power supply 220-240V  
Power supply 24VDC included  
Other led color: 2200K / 4000K / 5000K



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	3,2W	6W
2700 K	355	725
3000 K	370	760
4000 K	395	805
5000 K	410	845

code: 357. X XXX . XX

height  
led  
color

### HEIGHT

1 120 mm  
2 500 mm

### LED

272 Led 2700K 6W - 230V  
302 Led 3000K 6W - 230V

### COLOR

02 Black  
24 Corten  
39 Grey  
48 Dark grey (RAL 7016 textured)

2200K / 4000K / 5000K = on request

3,2W 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Stoumpi

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 8W & G9



Alina



IP65

230V

IK10



### DESCRIPTION

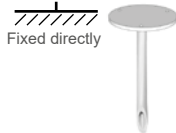
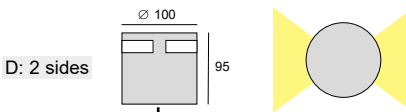
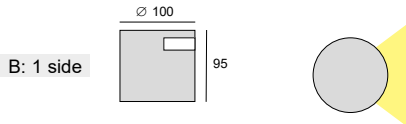
Body made in solid anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Degree of protection IP65 - IK10

### ACCESSORIES

Spike for ground fixing - Pic 3 ref: 804.00.32

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Led 3,2W or 6W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Power supply 24VDC included



Fixed directly

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 3

max.  
efficacy  
85lm/W

	Typical luminous flux (lm)	
	1 side 6W	2 sides 2x 4W
2700 K	460	2x 315
3000 K	470	2x 320
4000 K	480	2x 340

code: 982X . XXX . XX

°angle  
|  
led  
|  
color



### ANGLE

**B** 1 side  
**D** 2 sides

### LED / BULB

**G9** G9 LED (max. diameter 65mm / height 60mm)  
**W27** Led 2700K 6W (1 side) or 2x4W (2 sides) - 230V  
**W30** Led 3000K 6W (1 side) or 2x4W (2 sides) - 230V

### COLOR

**02A** Anodized black  
**32** Anodized aluminum

4000K = on request

3,2W or 6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Alina

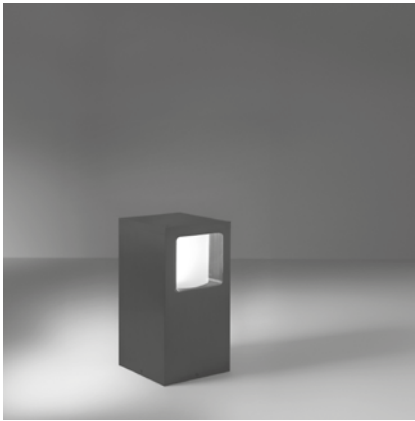
## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



Goliath K



IP65

230V

IK07



## DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 3 ref: 804.00.32  
Led Bulb E27

## ON REQUEST

Other anodized color  
Painted in RAL colors  
Other socket for LED (G9, G4, E14 ...)



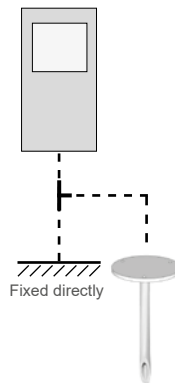
Goliath R



IP65

230V

IK07

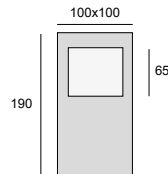
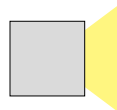


Fixed directly

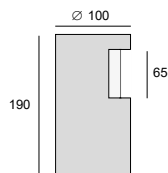
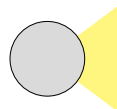
Pic 3

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 986.E2.32



code: 987.E2.32



## BULB

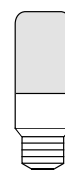
**E2** E27 LED (max. diameter 70mm / height 137mm)

Other socket for LED ( G9, G4, E14,...) = on request

## COLOR

**02A** Anodized black  
**32** Anodized aluminum

## Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Goliath

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M





# 230V E27



Spirit KFL

### DESCRIPTION

Body made in certified genuine Belgian stone  
 All metal parts are made of stainless steel  
 Safety sandblasted plexiglass  
 Degree of protection IP65 - IK07

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
 Led Bulb E27

### ON REQUEST

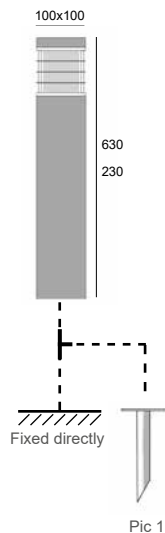
Other dimensions (customized)  
 Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK07





See more details accessories pages.  
 Voir plus de détails pages des accessoires.  
 Zie meer details accessoires pagina's.  
 Mehr Details auf den Zubehörseiten.

code: 951. XX .41 E27 LED (max. diameter 52mm / height 160mm)  
 height



### HEIGHT

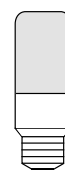
23 230 mm   
 63 630 mm 

### COLOR

41 Belgian Pierre

Other socket for LED ( G9, G4, E14,...) = on request

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
 9.5W 830 Non-Dim

# Spirit KFL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Serie "Strida RFL" on request



# 230V

## E27



Poeme FL

### DESCRIPTION

Body made in aluminum  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

### ON REQUEST

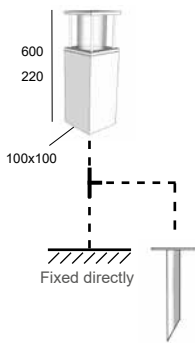
Other RAL colors  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK07



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: 8019. X. XX E27 LED (max. diameter 53mm / height 145mm)

height  
color



### HEIGHT

1 220 mm  
2 600 mm



### COLOR

02 Black  
39 Grey

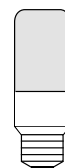
Other socket for LED ( G9, G4, E14,...) = on request

With grid = on request



### Accessory

code: LED.E201.10830



LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Poeme FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W



Strato

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Power supply 220-240V incorporated  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Safety clear plexiglass  
Degree of protection IP65 - IK09



IP65

230V

IK09

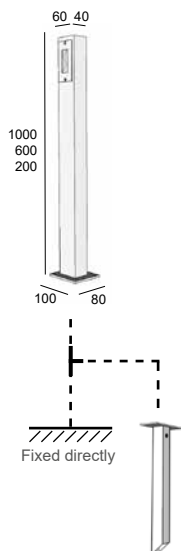


### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.100X080  
Spike for ground fixing - Pic 2 ref: 803.00.02

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Power supply 24VDC included  
Other dimensions (customized)



Pic 2

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 8067. X XX . XX

height  
led  
color

### HEIGHT

1 200 mm  
2 600 mm  
3 1000 mm

### LED

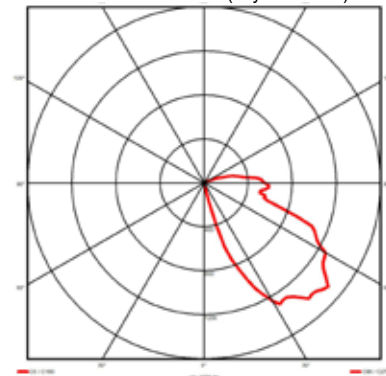
D1 6W - 4000K  
W1 6W - 2700K

### COLOR

02 Black  
24 Corten  
39 Grey  
48 Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

Standard reflector (asymmetrical)



max.  
efficacy  
141lm/W

Typical luminous flux (lm)		
	3,2W	6W
2700 K	355	725
3000 K	370	760
4000 K	395	805
5000 K	410	845

# Strato

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 9,5W



Phantom

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4  
Anti-ant gasket - ref: GK.100X100  
Spike for ground fixing - Pic 1 ref: 802.00.02

### ON REQUEST

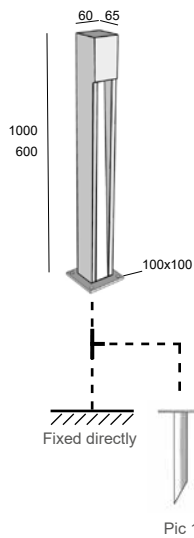
Other RAL colors or dimensions (customized)  
Other led color: 2200K / 4000K / 5000K  
Led 6W 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included



IP65

230V

IK09



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 322. X XX . XX

height  
led  
color

### HEIGHT

**2** 600 mm  
**3** 1000 mm

### LED

**27** 9,5W - 2700K  
**30** 9,5W - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 4000K / 5000K = on request

6W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Phantom

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Outdoor space planning - Mystras Grand Palace Resort - Peloponnese - Greece

# 230V

## 6W - 9,5W



Torga FL

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.100X100  
Spike for ground fixing - Pic 1 ref: 802.00.02

### ON REQUEST

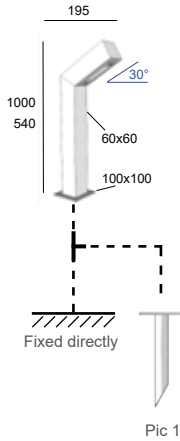
Other RAL colors  
Led 9,5W : 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included  
Other dimensions (customized)



IP65

230V

IK09



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

max. efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

code: 8009. X XXX . XX

height  
led  
color

### HEIGHT

1	540 mm	
2	1000 mm	

### LED

D37	6W - 4000K
W37	6W - 2700K

### COLOR

02	Black
24	Corten
39	Grey
48	Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request  
9,5W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Torga FL

Led garden bollard

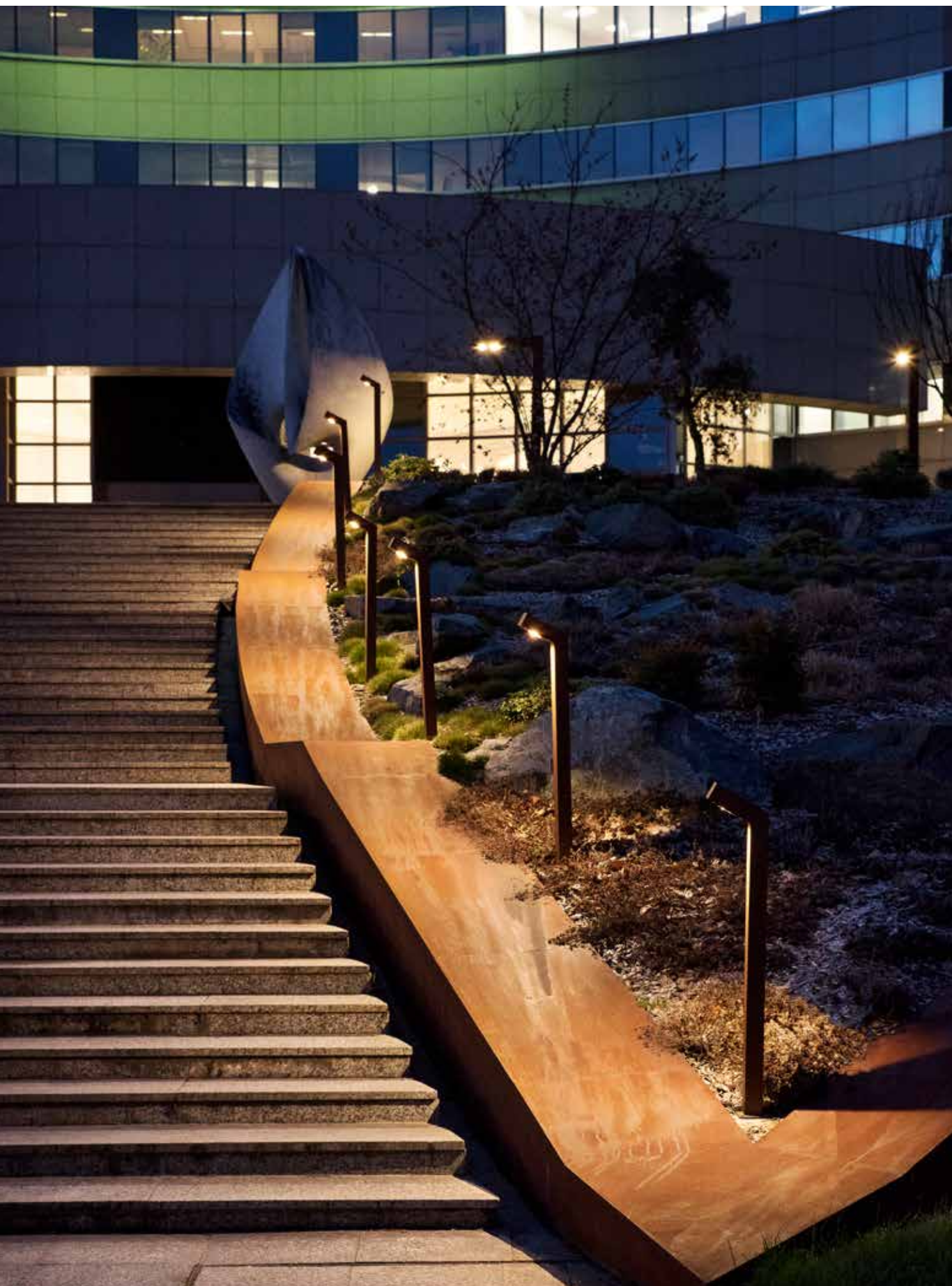


EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Agence CD&B / Photographe : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, immeuble Pablo Picasso à Nanterre, Île-de-France - INEDIT Lighting





# 230V

## 6W - 9,5W



Seven

### DESCRIPTION

Body made in profile aluminum or iron  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.100X080  
Spike for ground fixing - Pic 2 ref: 803.00.02

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Led 6W 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included



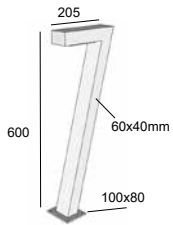
IP65

230V

IK09



\*do not use version rusty iron on tiling, paving, wood, ...



Fixed directly

Pic 2

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 8065. XX . XX  
          |      |  
          led  color

### LED

D1 9,5W - 4000K  
W1 9,5W - 2700K

### COLOR

02 Black  
39 Grey  
40 Rusty Iron  
48 Dark Grey (RAL 7016 structured)



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

2200K / 3000K / 5000K = on request  
6W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Seven

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 9,5W - 19W



Big Seven

### DESCRIPTION

Body made in profile aluminum or iron  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.180X080  
Spike for ground fixing - Pic 2 ref: 803.00.02

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 3000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included



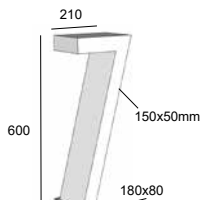
IP65

230V

IK09



\*do not use version rusty iron on tiling, paving, wood, ...



Fixed directly

Pic 2

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: **8064.XX.XX**  
led color

### LED

**D1** 9,5W - 4000K  
**D2** 19W - 4000K (2x 9,5W)  
**W1** 9,5W - 2700K  
**W2** 19W - 2700K (2x 9,5W)

### COLOR

**02** Black  
**39** Grey  
**40** Rusty Iron  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

6W or 2x 6W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

max.  
efficacy  
121lm/W

	Typical luminous flux (lm)	
	9,5W	19W
2700 K	995	1990
3000 K	1035	2070
4000 K	1095	2190
5000 K	1150	2300

# Big Seven

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 9,5W



Indy

### DESCRIPTION

Body made in profile aluminum or iron  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.100X080  
Spike for ground fixing - Pic 2 ref: 803.00.02

### ON REQUEST

Other RAL colors or dimensions (customized)  
Other led color: 2200K / 3000K / 5000K  
Led 6W 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included



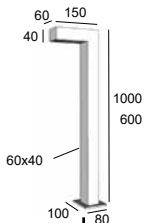
IP65

230V

IK09



\*do not use version rusty iron on tiling, paving, wood, ...



Fixed directly



Pic 2

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 8066. X XXX . XX

height | led | color

max. efficacy  
141lm/W

Typical luminous flux (lm)		
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

### HEIGHT

1 600 mm  
2 1000 mm

### LED

D1 9,5W - 4000K  
W1 9,5W - 2700K

### COLOR

02 Black  
24 Corten  
39 Grey  
40 Rusty Iron  
48 Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request  
6W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

Weight (kg)	
600mm	1000mm
02,24,39,48 2,10 3,10	
40 2,30 3,50	

# Indy

Led garden bollard

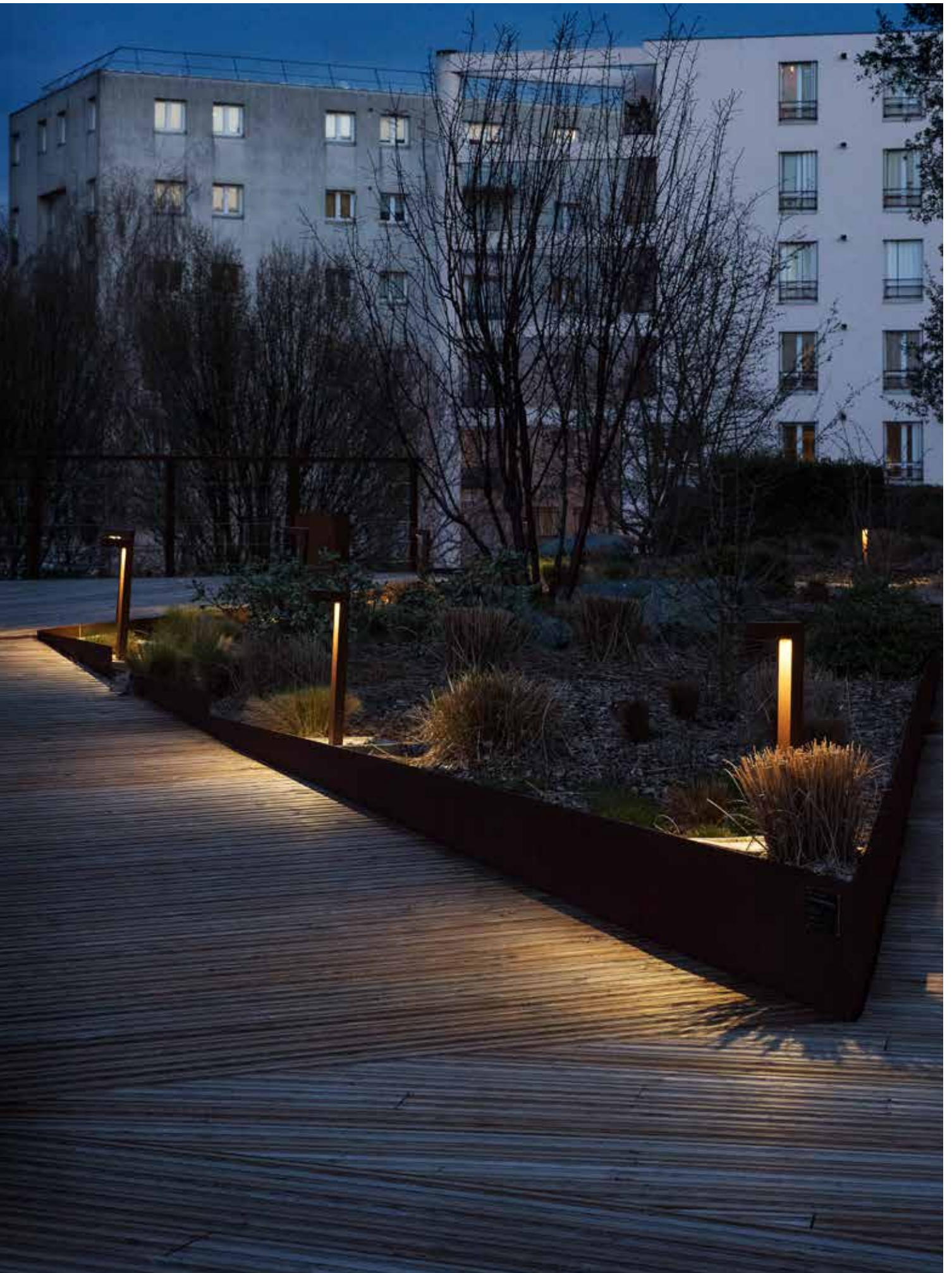


EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Agence CD&B / Photographe : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, immeuble Pablo Picasso à Nanterre, Île-de-France - INEDIT Lighting





EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 9,5W



Sampa FL

### DESCRIPTION

Body made in profile aluminum or iron  
Screws in stainless steel  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.180X080  
Spike for ground fixing - Pic 2 ref: 803.00.02

### ON REQUEST

Other RAL colors or dimensions (customized)  
Other led color: 2200K / 3000K / 5000K  
Led 9,5W : 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included



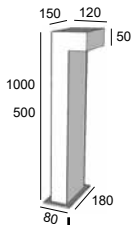
IP65

230V

IK09



\*do not use version rusty iron on tiling, paving, wood, ...



Fixed directly

Pic 2

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 8037. X XXX . XX

height  
led  
color

max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

### HEIGHT

2 500 mm  
3 1000 mm

### LED

D37 6W - 4000K  
W37 6W - 2700K

### COLOR

02 Black  
24 Corten  
39 Grey  
40 Rusty Iron  
48 Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request  
9,5W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

	Weight (kg)	
	500mm	1000mm
02,24,39,48	2,10	3,70
40	5,30	9,60

# Sampa FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 17W



Sampa Pro

### DESCRIPTION

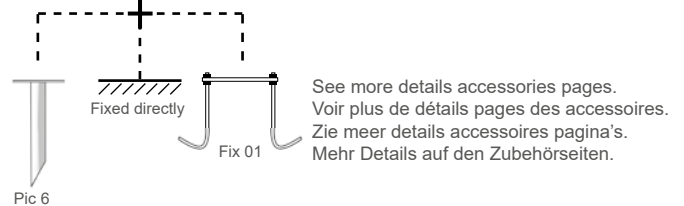
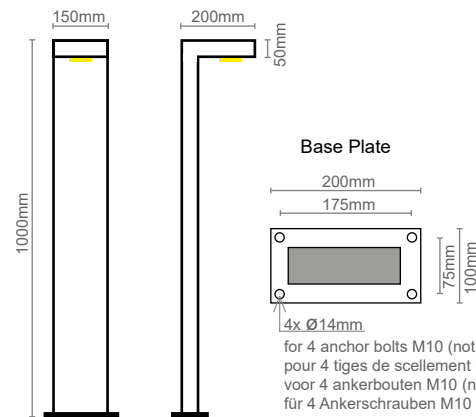
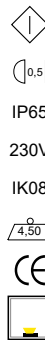
Body made in profile aluminum  
Screws in stainless steel  
Asymmetrical silicone lens anti-UV, efficiency 89%  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK08

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anti-ant gasket - ref: GK.200X100  
Spike for ground fixing - Pic 6 ref: 804.06.GZ  
Anchor kit ground fixing - Fix 01 ref: AC.FX21.GZ

### ON REQUEST

Other RAL colors or dimensions (customized)  
Other led color: 2200K / 2700K / 5000K  
Dimmable power supply 220-240V  
Presence or motion detector (around 8m)  
Detector with master/slave function



max. efficacy  
142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

code: 8037 **XX** . **XX** . **XX**  
 detector | led | color

### DETECTOR

**D1** With presence detector  
**D3** With motion detector (On/Off)  
**P1** Without detector

2200K / 2700K / 5000K = on request

### LED

**N1** 6W - 4000K  
**N2** 11W - 4000K  
**N3** 17W - 4000K  
**W1** 6W - 3000K  
**W2** 11W - 3000K  
**W3** 17W - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

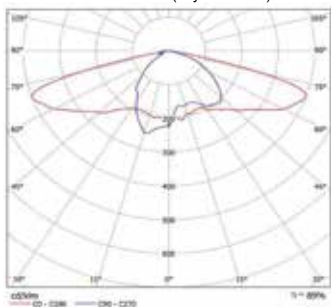
## Applications

- Footpath
- Car park
- Park
- Building entrance
- Bicycle path
- PRM area

## Advantages +

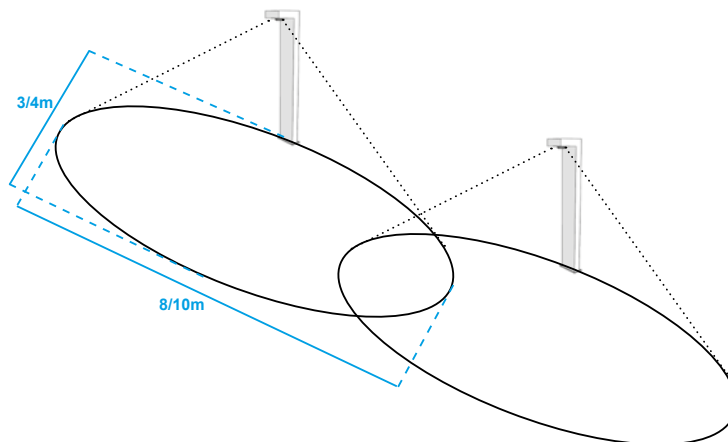
- Timeless design & robust (IK08)
- Lighting level conforms to PRM standards
- Also available with motion or presence detector for:
  - significant energy savings
  - a reduction of light pollution
  - a convenient and secure function to the site
  - an extension to the LED lifetime

Standard Lens (asymmetrical)



# Sampa PRO

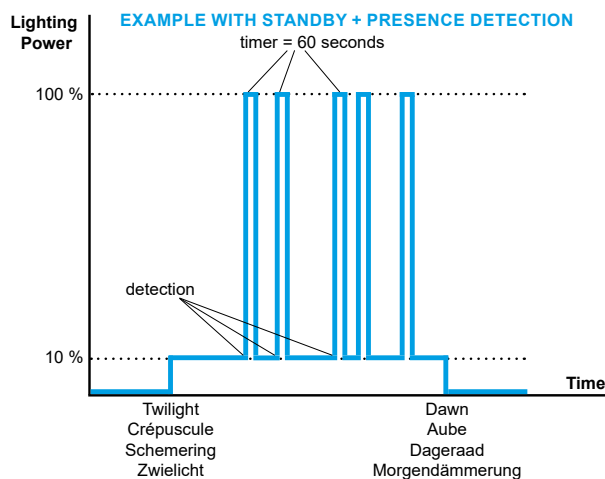
## Led garden bollard

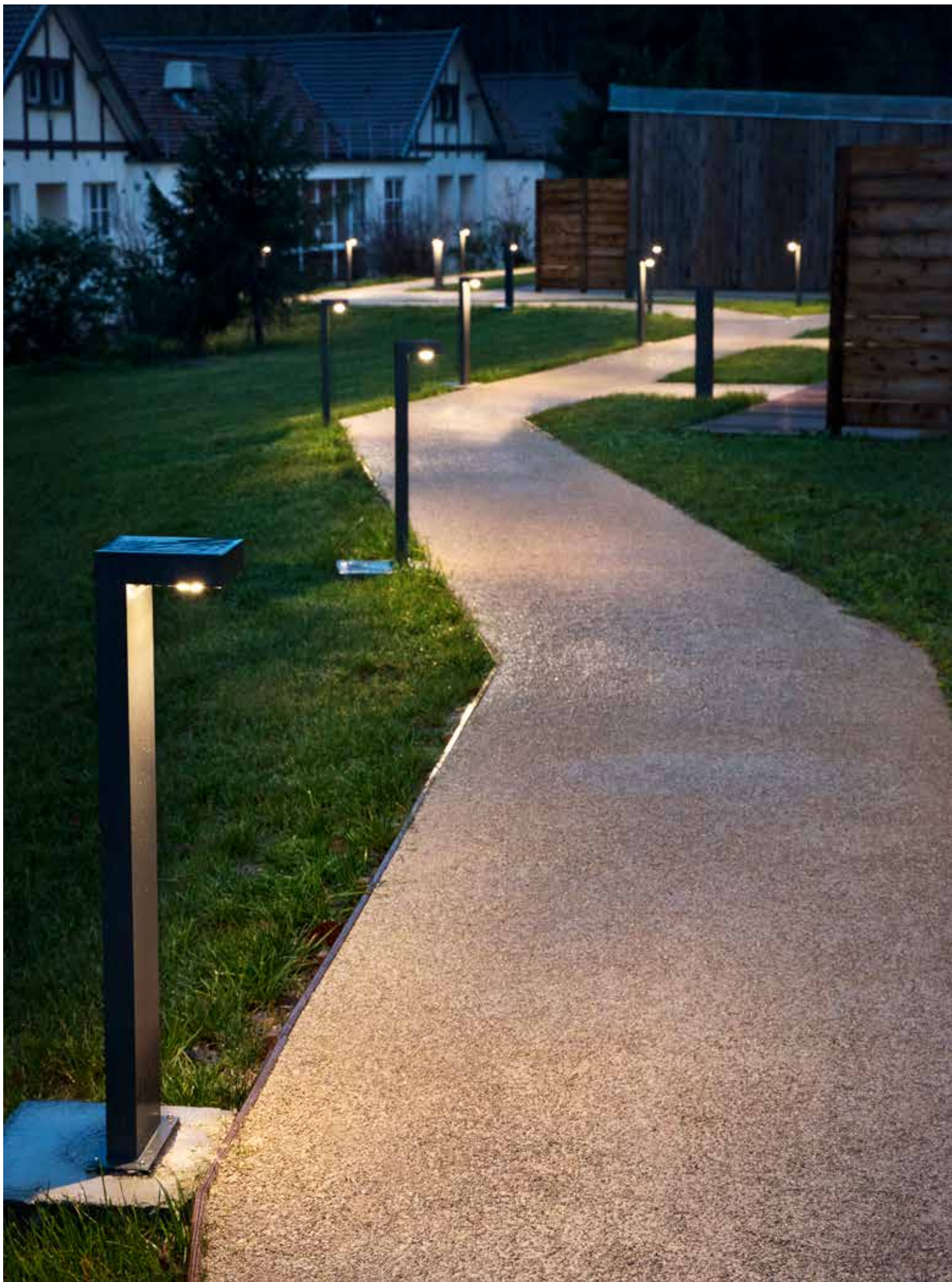


EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M

## Sampa PRO+ Technical characteristics

- Fixing bracket for the detector in solid aluminum
- Presence detector (around 8m) with presetting:
  - standby function with orientation lighting of 10%
  - timer 60 seconds
  - Twilight function at 200 lux
  - ..... or other adjustments on request







EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Architecte: TCHEPELEV à Chartres / Photographe : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, HPR de Bullion, Île-de-France - maisons familiales

## Toepassingen

- Voetpad
- Parking
- Park
- Ingang gebouwen
- Fietspad
- PBM area

## Sampa PRO Technische specificaties

- Body in aluminium profiel 6000-serie
- Roestvrij stalen schroeven
- Asymmetrische silicone lens anti-UV, rendement 89%
- Mechanische sterkte van toestel: IK08
- Bescherming: IP65
- Gewicht: 4,5 kg
- Geïntegreerde driver en Led
- COB Led CRI>90 - Life: > 85 000 uur \* gebruik
- CE - klasse I
- 

## Accessoires

- IP68 connectors: connex 2 / 4 / 6

## Voordelen +

- Sober en tijdloos design
- Robuust (IK08)
- Verlichtingsniveau voldoet aan de normen PBM
- Ook verkrijgbaar met bewegings- of aanwezigheidsmelder voor:
  - aanzienlijke energiebesparingen
  - een vermindering van de lichtvervuiling
  - comfort en een veilige functie op de site
  - een verlenging van de levensduur van de LED

## Sampa PRO+ Technische specificaties

- Detector steun in massief aluminium
- Aanwezigheids detector (bereik circa 8m.) met standaard:
  - slaap functie oriëntatieverlichting tot 10%
  - timer 60 seconden
  - twilight functie op 200 lux
  - ..... of andere aanpassingen op aanvraag

## Op aanvraag

- Andere RAL-kleur
- Andere LED kleur: 2700K / 5000K
- Andere maten (op maat)
- Sensor met master / slave-functie
- Afstandsbediening voor gepersonaliseerde aanpassing

## Anwendungen

- Fußweg
- Parkplatz
- Park
- Gebäudeeingang
- Fahrradweg
- PEM-Bereich

## Sampa PRO Technische Spezifikation

- Body in Aluminium-Profil der Serie 6000
- Schrauben aus rostfreiem Stahl
- Asymmetrische Linse anti-UV Silikon, Wirkungsgrad 89%
- Mechanische Festigkeit der Montage: IK08
- Schutzart: IP65
- Gewicht: 4,5 kg
- Integrierte driver und Led
- COB Led CRI>90 - Lebensdaue: > 85 000 Stunden \*
- CE - Klasse I

## Zubehör

- IP68 Anschlüsse: connex 2 / 4 / 6

## Vorteile +

- Zeitloses Design
- Robust (IK08)
- Beleuchtungsniveau entspricht den Standards PEM
- Auch für mit Bewegungs- oder Präsenzmelder :
  - Erhebliche Energieeinsparungen
  - Eine Reduzierung der Lichtverschmutzung
  - Komfort und eine sichere Funktion im Ort
  - Verlängerung der Lebensdauer der LED

## Sampa PRO+ Technische Spezifikation

- Unterstützung für Detektor in massiven Aluminium
- Präsenzmelder (Reichweite ca. 8 m.) mit dem Standard:
  - Sleep-Funktion mit Orientierungsbeleuchtung auf 10%
  - Timer 60 Sekunden
  - Dämmerungsfunktion 200 Lux
  - ..... oder andere Anpassungen auf Anfrage

## Auf Anfrage

- Andere RAL-Farbe
- Andere LED Farbe: 2700K / 5000K
- Weitere Dimension (Custom)
- 0-10V dimmbaren LED-Treiber 0 - 100%
- Sensor mit Master / Slave-Funktion
- Fernbedienung für die personalisierte Anpassung

\* Lifetime is only an indication, it mainly depends of the application and use of the luminaire.

\* La durée de vie est donnée à titre indicatif, elle dépend essentiellement de l'application et l'utilisation du luminaire.

\* De levensduur word als indicatie gegeven, het hangt vooral af van de toepassing en het gebruik van het armatuur.

\* Das Leben als Hinweis gegeben wird, hängt es in erster Linie auf die Anwendung und Nutzung der Leuchte.

## Applications

- Chemin piétonnier
- Parking
- Parc
- Entrée de bâtiment
- Piste cyclable
- Zone PMR

## Avantages +

- Design sobre et intemporel
- Robuste (IK08)
- Niveau d'éclairage conforme aux normes PMR
- Disponible aussi avec détecteur de mouvement ou de présence pour:
  - des économies d'énergie importantes
  - une diminution de la pollution lumineuse
  - un confort et une fonction sécurisante au site
  - un allongement de la durée de vie de la led

## Sampa PRO Caractéristiques Techniques

- Corps en profilé d'aluminium série 6000
- Visserie en inox
- Lentille silicone asymétrique anti-UV, efficacité 89%
- Tenue mécanique de l'ensemble: IK08
- Degré de protection: IP65
- Poids: 4,5 kg
- Alimentation et Led intégrés
- COB Led CRI>90 durée de vie: >85 000 h\* de fonctionnement
- CE - classe I

## Sampa PRO+ Caractéristiques Techniques

- Support pour détecteur en aluminium massif usiné
- Détecteur de présence (portée env. 8m) avec par défaut:
  - fonction de veille avec éclairage d'orientation à 10%
  - temporisation 60 secondes
  - fonction crépusculaire à 200 lux
  - ..... ou autre réglage sur demande

## Accessoires

- Connecteurs IP68: connex 2 / 4 / 6

## Sur demande

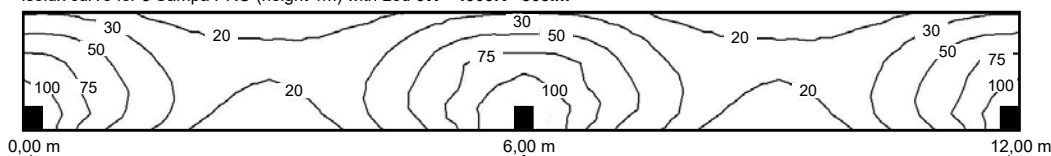
- Autre couleur RAL
- Autre couleur de led : 2700K / 5000K
- Autre dimension (personnalisée)
- Détecteur avec fonction maître/esclave
- Télécommande pour un réglage personnalisé



# illumination examples with Sampa PRO

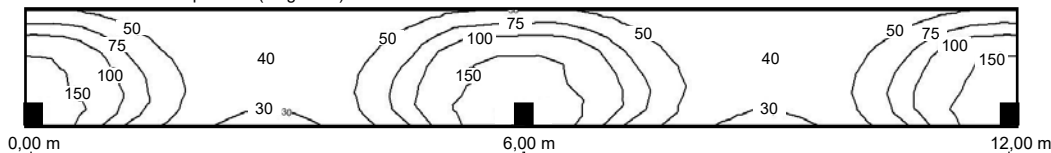
example for 2 Sampa PRO (height 1m) with Led 11W - 4000K - 1480lm						
Surface	interdistance	E-average Lux	E-maximum Lux	E-minimum Lux	Uniformity Emin/Eav	
5m x 1,4m	5 m	93	250	37	0,40	
6m x 1,4m	6 m	76	250	25	0,32	
7m x 1,4m	7 m	67	250	12	0,18	
8m x 1,4m	8 m	59	250	5	0,08	
5m x 2,0m	5 m	73	250	16	0,22	
7m x 2,0m	7 m	53	250	12	0,23	
10m x 2,0m	10 m	37	250	1	0,02	
5m x 2,5m	5 m	61	250	7	0,12	
7m x 2,5m	7 m	45	250	5	0,12	

isolux curve for 3 Sampa PRO (height 1m) with Led 6W - 4000K - 805lm



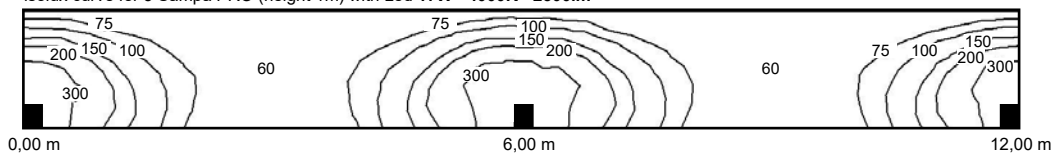
**illumination on 12mx1.4m**  
 - average: 42 lux  
 - minimal: 14 lux  
 - maximal: 139 lux  
 Uniformity min/ave: 0,32  
 Uniformity min/max: 0,10

isolux curve for 3 Sampa PRO (height 1m) with Led 11W - 4000K - 1480lm



**illumination on 12mx1.4m**  
 - average: 76 lux  
 - minimal: 25 lux  
 - maximal: 139 lux  
 Uniformity min/ave: 0,32  
 Uniformity min/max: 0,10

isolux curve for 3 Sampa PRO (height 1m) with Led 17W - 4000K - 2300lm



**illumination on 12mx1.4m**  
 - average: 131 lux  
 - minimal: 40 lux  
 - maximal: 485 lux  
 Uniformity min/ave: 0,32  
 Uniformity min/max: 0,08

# 230V

## 2x 3,2W



Kozi FL



### DESCRIPTION

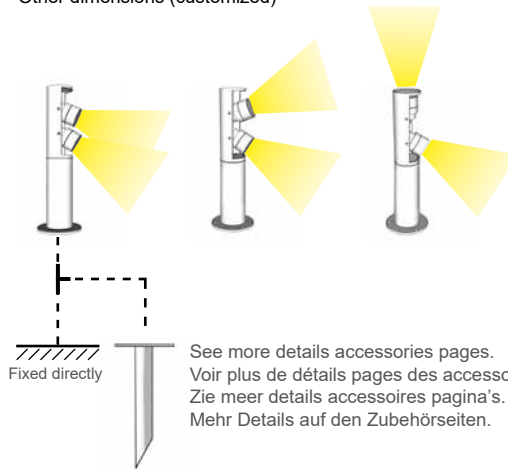
Body made in solid anodized aluminum or stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK06  
Safety clear plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Anti-glare ring - ref: AC.8042.AG.\_.\_

### ON REQUEST

Other anodized color  
Other led color: 2200K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included  
Other dimensions (customized)

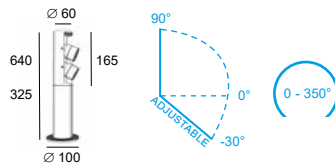


See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

max. efficacy 128lm/W

code: 8043 . X XX . XX  
          |          |  
          height led  
          |          |  
          color



Typical luminous flux (lm)	
2x 3,2W	
2700 K	2x 355
3000 K	2x 370
4000 K	2x 395
5000 K	2x 410

### HEIGHT

- 1 325mm
- 2 640mm

### LED

- 27 2 x 3,2W - 2700K - 50°
- 30 2 x 3,2W - 3000K - 50°

### COLOR

- 02A Anodized black
- 04 Brushed stainless steel
- 32D Anodized aluminum
- 33 Anodized bronze

2200K / 4000K / 5000K = on request  
diffusion angle 35° = on request

# Kozi FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Anodized black



Anodized bronze



Brushed stainless steel

# 230V GU10



Max FL

## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02

## ON REQUEST

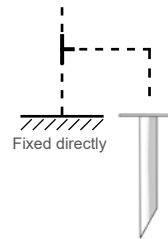
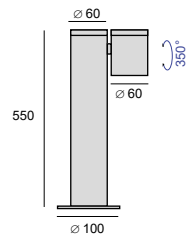
Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Available with 2 adjustable spotlights



IP65

230V

IK07



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: 975. GU . XX

color



DIMMABLE

## BULB

GU GU10 LED (max. height 56mm)

## COLOR

**02** Black  
**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper  
**32** Anodized aluminum  
**39** Grey

# Max FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



With 2 adjustable spotlights on request



# 230V E27



Sarm FL

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK08

### ACCESSORIES

Base plate Ø 100mm - Easyfix ref: X100A. \_\_  
Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

### ON REQUEST

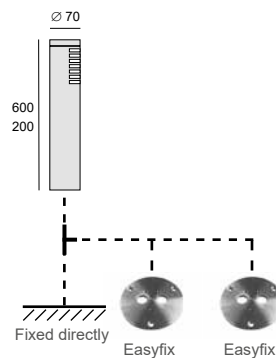
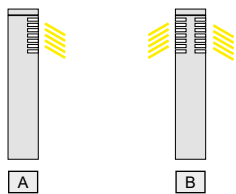
Other RAL colors  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK08



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 8018 . XX . XX E27 LED (max. diameter 53mm / height 145mm)

height  
°angle  
color



### HEIGHT

1 200 mm  
2 600 mm



### ANGLE

A 1 side  
B 2 sides

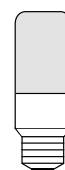
### COLOR

02 Black  
39 Grey

Other socket for LED ( G9, G4, E14,...) = on request

Pic 1

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Sarm FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



Onyx FL



IP65

230V

IK07



## DESCRIPTION

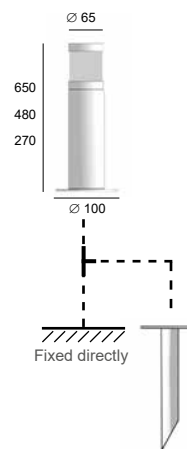
Body made in aluminum  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

## ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



Pic 1

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 715. **XX** . **XX**  
height |  
color

E27 LED (max. diameter 48mm / height 125mm)



### HEIGHT

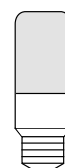
**27** 270 mm  
**48** 480 mm  
**65** 650 mm

### COLOR

**00** Natural brushed aluminum  
**02** Black

Other socket for LED ( G9, G4, E14,...) = on request

### Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Onyx FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



Manix FL



IP65

230V

IK07



## DESCRIPTION

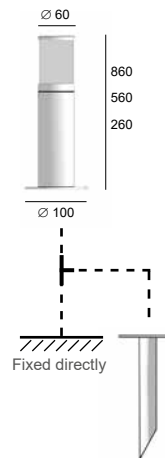
Body made in stainless steel, brass or copper  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

## ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



Pic 1

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 935. XX . XX E27 LED (max. diameter 48mm / height 125mm)

height  
color



## HEIGHT

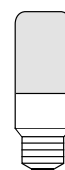
**26** 260 mm  
**56** 560 mm  
**86** 860 mm

## COLOR

**04** Brushed stainless steel  
**07** Brushed brass  
**21** Brushed copper

Other socket for LED ( G9, G4, E14,...) = on request

## Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Manix FL

## Led garden bollard



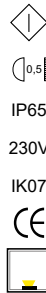
EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



Zebra FL



## DESCRIPTION

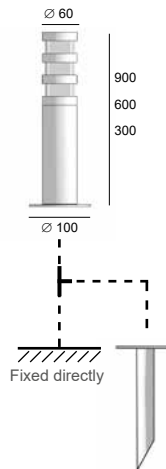
Body made in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

## ON REQUEST

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



Fixed directly

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: 764. **XX** .04 E27 LED (max. diameter 37mm / height 160mm)  
height



## HEIGHT

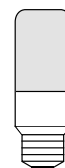
**30** 300 mm  
**60** 600 mm  
**90** 900 mm

## COLOR

**04** Brushed stainless steel

Other socket for LED ( G9, G4, E14,...) = on request

## Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Zebra FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Serie "Atrex FL" on request



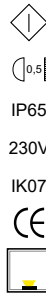
on request: 20cm height with soquet G9, G4, ...



# 230V E27



Atlantic FL



### DESCRIPTION

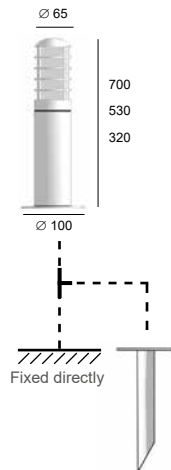
Body made in aluminum  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

### ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: **180. XX . XX** E27 LED (max. diameter 37mm / height 160mm)  
| height  
| color



### HEIGHT

**32** 320 mm  
**53** 530 mm  
**70** 700 mm

### COLOR

**00** Natural brushed aluminum  
**02** Black

Other socket for LED ( G9, G4, E14,...) = on request

Accessory

**code: LED.E201.10830**

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Atlantic FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Serie "Nobus FL" on request

Serie "Faros" on request



# 230V

## 14W - 26W



### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led CRI>80 3SDCM 60.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK07

### ACCESSORIES

Base plate d.200mm - Stic ref: X004.\_.\_  
Spike for ground fixing - Pic 1 ref: 802.00.02

### ON REQUEST

Other RAL colors  
Other led color: 3000K / 4000K  
Dimmable power supply 220-240V  
Dimmable power supply with remote control  
Other dimensions (customized)



IP65

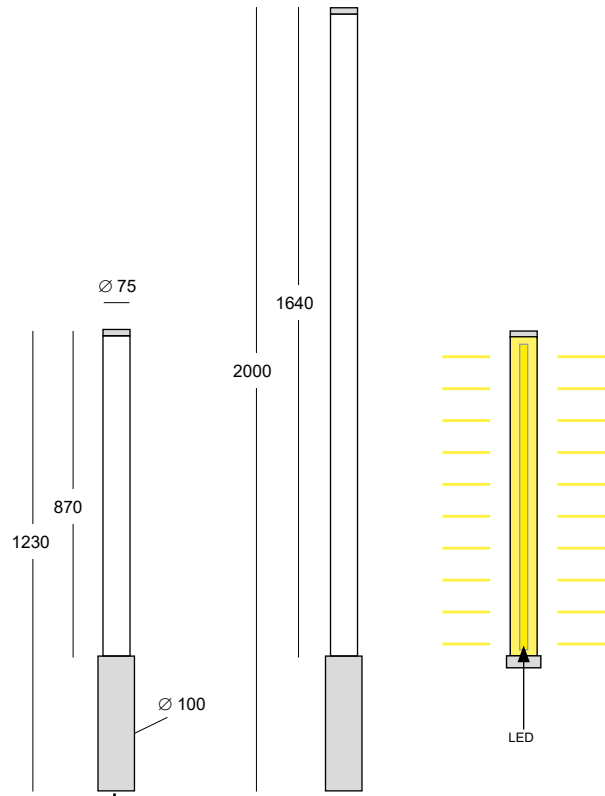
230V

IK07





max.  
efficacy  
90lm/W

	Typical luminous flux (lm)	
	14W	26W
2700 K	1180	2190
3000 K	1260	2340
4000 K	1270	2350



code: 7018. **XXX** . **XX**  
          ↑          ↑  
          height  color

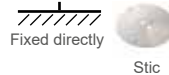
### HEIGHT

**127** 1230mm / 14W - 2700K   
**227** 2000mm / 26W - 2700K 

3000K / 4000K = on request

### COLOR

**02** Black  
**24** Corten  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)



Pic 1

See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

# Nomad 1

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 14W



Nomad 2

### DESCRIPTION

Body made in aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led CRI>80 3SDCM 60.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK07  
Provided with 3m cable + plug

### ON REQUEST

Other RAL colors  
Other led color: 3000K / 4000K  
Dimmable power supply 220-240V  
Dimmable power supply with remote control  
Other dimensions (customized)



IP65

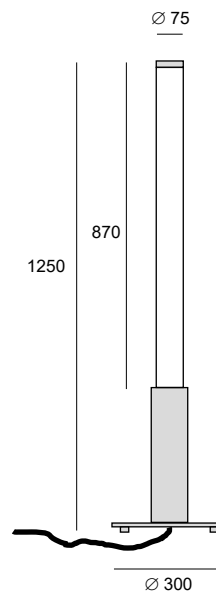
230V

IK07



max.  
efficacy  
90lm/W

Typical luminous flux (lm)	
14W	
2700 K	1180
3000 K	1260
4000 K	1270



Provided with 3m cable + plug



code: 7019. XXX . XX  
          |          |  
          led      color

### LED

127 14W - 2700K

3000K / 4000K = on request

### COLOR

02 Black  
24 Corten  
32 Anodized aluminum  
39 Grey  
48 Dark Grey (RAL 7016 structured)

# Nomad 2

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 9,5W



Ulyss

### DESCRIPTION

Body made in aluminum or stainless steel  
Screws in stainless steel  
Safety clear polycarbonate  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Base plate d.200mm - Stic ref: X004.\_.\_

### ON REQUEST

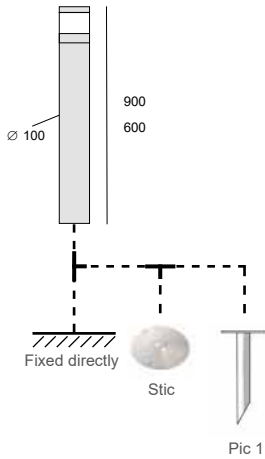
Other RAL colors  
Other led color: 2200K / 4000K / 5000K  
Dimmable power supply 220-240V  
Power supply 24VDC included  
Other dimensions (customized)



IP65

230V

IK09



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 969. X XXX . XX

height  
led  
color

### HEIGHT

2 600 mm  
3 900 mm

### LED

271 6W - 2700K  
272 9,5W - 2700K  
301 6W - 3000K  
302 9,5W - 3000K

### COLOR

02 Black  
04 Brushed stainless steel  
24 Corten  
39 Grey  
48 Dark Grey (RAL 7016 structured)

2200K / 4000K / 5000K = on request

max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	6W	9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

# Ulyss

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V

## 6W - 17W



Ulyss Pro

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety clear polycarbonate  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Presence detector included (around 8m)  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK09

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Infrared remote control - ref: DET.IR.D1  
Asymmetric beam - Cover 180° ref: 969.AC01.02A  
Anchor kit ground fixing - Fix 04 ref: AC.FX24.GZ

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 2700K / 5000K  
Detector with master/slave function  
Other dimensions (customized)



IP65

230V

IK09



code: **969 XX . XX . XX**  
           |      |      |  
       detector led color

### DETECTOR

**D1** With presence detector  
**D3** With motion detector (On/Off)  
**P1** Without detector

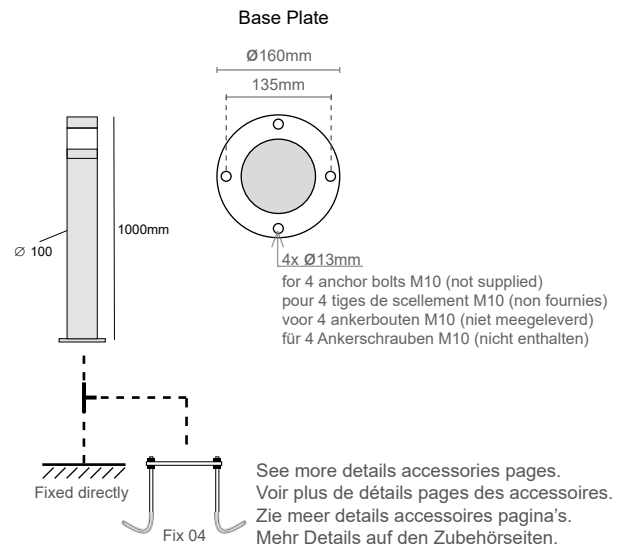
### LED

**301** 11W - 3000K  
**302** 17W - 3000K  
**401** 11W - 4000K  
**402** 17W - 4000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 2700K / 5000K = on request



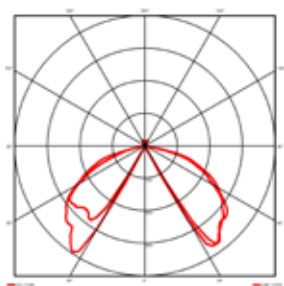
max.  
efficacy  
142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415



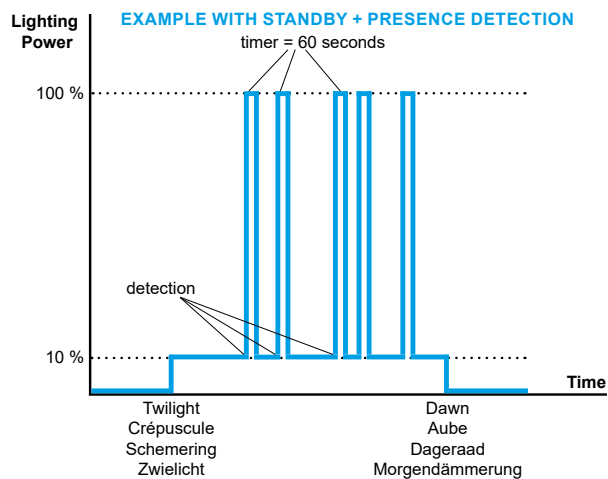
# Ulyss PRO

## Led garden bollard



### Technical characteristics

- Fixing bracket for the detector in solid aluminum
- Presence detector (around 8m) with presetting:
  - standby function with orientation lighting of 10%
  - timer 60 seconds
  - Twilight function at 200 lux
  - ..... or other adjustments on request



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Architecte JFA - Jacques FERRIER Architecture avec Mr PERRIN / Photographe : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, immeuble INFLUENCE, conseil Régional Île-de-France à Saint Ouen





EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Architecte JFA - Jacques FERRIER Architecture avec Mr PERRIN / Photographe : Isabelle SMOLINSKI  
Aménagement de l'espace extérieur, immeuble INFLUENCE, conseil Régional Île-de-France à Saint Ouen

# 230V

## E27



Sumo FL

### DESCRIPTION

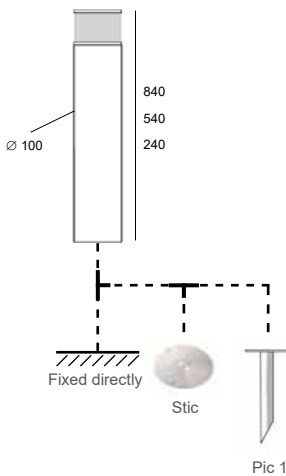
Body made in stainless steel  
 Safety sandblasted plexiglass  
 Degree of protection IP65 - IK07

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
 Base plate d.200mm - Stic ref: X004. \_\_  
 Led Bulb E27

### ON REQUEST

Other dimensions (customized)  
 Other socket for LED (G9, G4, E14 ...)



See more details accessories pages.  
 Voir plus de détails pages des accessoires.  
 Zie meer details accessoires pagina's.  
 Mehr Details auf den Zubehörseiten.

code: 973. XX. 04  
 height

E27 LED (max. diameter 49mm / height 137mm)



### HEIGHT

24	240 mm	$\frac{2.6}{\Delta}$
54	540 mm	$\frac{4.6}{\Delta}$
84	840 mm	$\frac{7.0}{\Delta}$

### COLOR

04 Brushed stainless steel

Other socket for LED ( G9, G4, E14,...) = on request

Accessory

**code: LED.E201.10830**

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Sumo FL

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Painted aluminum = on request





230V  
E27



Sumo RFL

**DESCRIPTION**

Body made in certified genuine Belgian stone  
All metal parts are made of stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

**ACCESSORIES**

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

**ON REQUEST**

Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



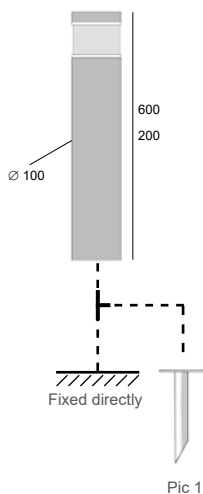
IP65

230V

IK07



	Weight (kg)	
	200mm	600mm
41	3,30	10,70
42	2,00	5,40



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 963. **XX** .41 E27 LED (max. diameter 52mm / height 137mm)  
height



**HEIGHT**

20 200 mm  
60 600 mm

**COLOR**

41 Belgian Pierre

Other socket for LED ( G9, G4, E14,...) = on request

Accessory

code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Sumo RFL



Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



Spirit FL

### DESCRIPTION

Body made in stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

### ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Base plate d.200mm - Stic ref: X004.\_\_\_  
Led Bulb E27

### ON REQUEST

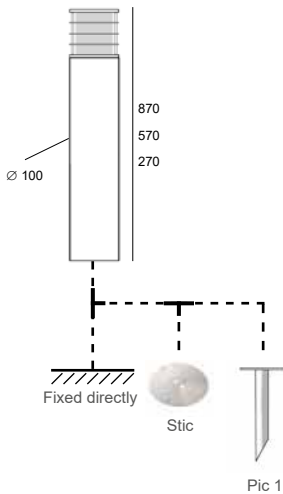
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK07



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

Pic 1

code: 971. **XX** .04 E27 LED (max. diameter 49mm / height 160mm)  
height



### HEIGHT

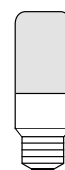
27	270 mm	
57	570 mm	
87	870 mm	

### COLOR

04 Brushed stainless steel

Other socket for LED ( G9, G4, E14,...) = on request

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Spirit FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M





230V  
E27



Spirit RFL

**DESCRIPTION**

Body made in certified genuine Belgian stone  
All metal parts are made of stainless steel  
Safety sandblasted plexiglass  
Degree of protection IP65 - IK07

**ACCESSORIES**

Spike for ground fixing - Pic 1 ref: 802.00.02  
Led Bulb E27

**ON REQUEST**

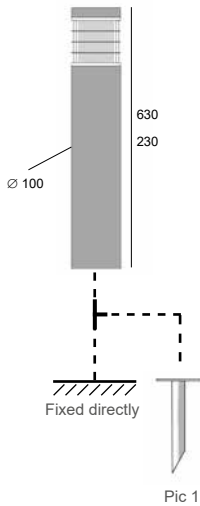
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



IP65

230V

IK07



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 954. XX .41  
height

E27 LED (max. diameter 52mm / height 160mm)



**HEIGHT**

23 230 mm  
63 630 mm



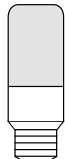
**COLOR**

41 Belgian Pierre

Other socket for LED ( G9, G4, E14,...) = on request

Accessory

code: LED.E201.10830



LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Spirit RFL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



Serie "Strida RFL" on request



# 230V E27



Sabri FL

## DESCRIPTION

Body made in aluminum or stainless steel  
Screws in stainless steel  
Safety clear polycarbonate  
Anti-glare grid made in aluminum  
Degree of protection IP65 - IK09

## ACCESSORIES

Spike for ground fixing - Pic 1 ref: 802.00.02  
Base plate d.200mm - Stic ref: X004.\_\_  
Led Bulb E27

## ON REQUEST

Other RAL colors  
Other dimensions (customized)  
Other socket for LED (G9, G4, E14 ...)



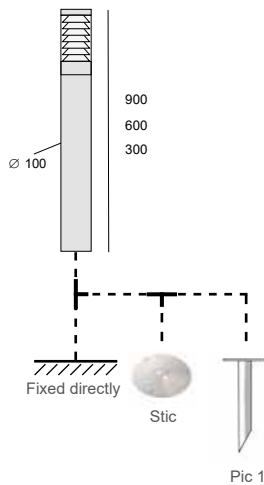
IP65

230V

IK09



	Weight (kg)		
	300mm	600mm	900mm
02,39	1,55	3,00	4,50
04	2,65	4,45	5,75



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 212. XX . XX E27 LED (max. diameter 38mm / height 185mm)

height  
color



### HEIGHT

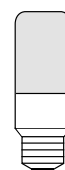
11 300 mm  
21 600 mm  
31 900 mm

### COLOR

02 Black  
04 Brushed stainless steel  
39 Grey

Other socket for LED ( G9, G4, E14,...) = on request

### Accessory



code: LED.E201.10830

LED bulb E27 38x115mm  
9,5W 830 Non-Dim

# Sabri FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M



# 230V E27



IP45

230V



## DESCRIPTION

Body made in casted brass  
Screws in brass  
Sandblasted white glass  
Degree of protection IP45

## ACCESSORIES

Led Bulb E27

## ON REQUEST

Other socket for LED (G9, G4, E14 ...)

code: **114.X.07** E27 LED (max. diameter 50mm / height 137mm)  
height



DIMMABLE

### HEIGHT

6 300 mm  
7 500 mm

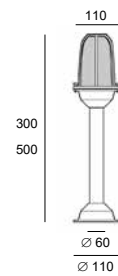


210

### COLOR

07 Natural brass

Other socket for LED ( G9, G4, E14,...) = on request



code: **117.X.07** E27 LED (max. diameter 65mm / height 170mm)  
height



DIMMABLE

### HEIGHT

6 370 mm  
7 570 mm

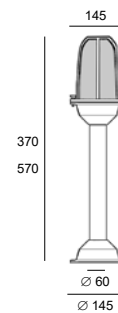


310

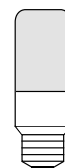
### COLOR

07 Natural brass

Other socket for LED ( G9, G4, E14,...) = on request



### Accessory



code: **LED.E201.10830**

LED bulb E27 38x115mm  
9.5W 830 Non-Dim

# Cambridge FL



Led garden bollard

EXTERIOR LIGHTING  
GARDEN BOLLARD < 1,5M







Exterior

Garden bollard > 1,5m

# 230V

## 13W - 18W



Torga L

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
13W = Led module CRI>80 3SDCM 70.000hrs L80 B10  
18W = Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK07

### ACCESSORIES

IP68 connection - Connex 2 / 4 / 6  
Anchor kit ground fixing - Fix 03 ref: AC.FX23.GZ

### ON REQUEST

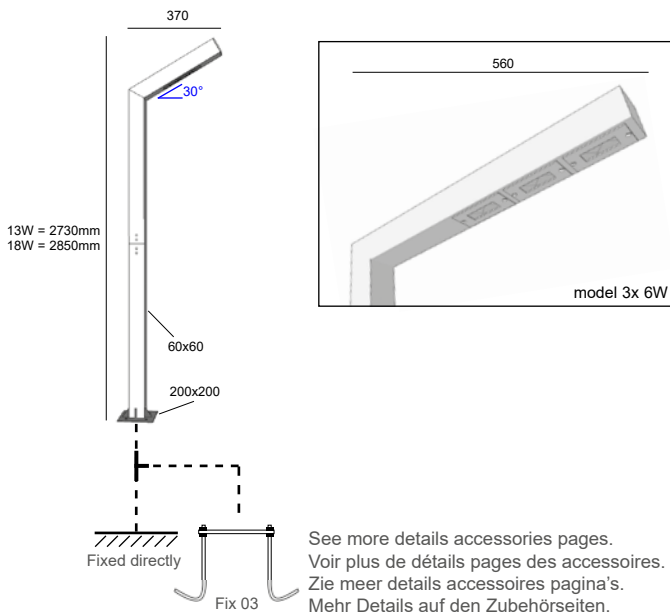
Other RAL colors  
Only for 18W (3x 6W) : 2200K / 2700K / 5000K  
Dimmable power supply 220-240V  
Other dimensions (customized)



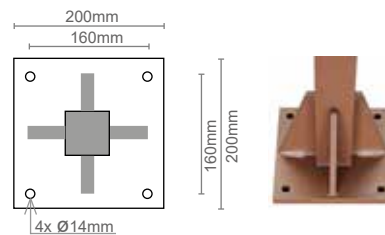
IP65

230V

IK07



### Base Plate



for 4 anchor bolts M10 (not supplied)  
pour 4 tiges de scellement M10 (non fournies)  
voor 4 ankerbouten M10 (niet meegeleverd)  
für 4 Ankerschrauben M10 (nicht enthalten)

code: 8009. 5XXX. XX

led color

### LED

**D87** 13W (8x 1,6W) - 15° - 5000K  
**D88** 18W (3x 6W) - 50° - 4000K  
**W87** 13W (8x 1,6W) - 15° - 3000K  
**W88** 18W (3x 6W) - 50° - 3000K

18W 2200K / 2700K / 5000K = on request

### COLOR

**02** Black  
**24** Corten  
**39** Grey

max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	13W	18W
2700 K		2175
3000 K	1130	2280
4000 K		2415
5000 K	1230	2535

# Torga L

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M



# 230V

## 28,5W - 57W



Artist

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Safety sandblasted plexiglass  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK07



IP65

230V

IK07

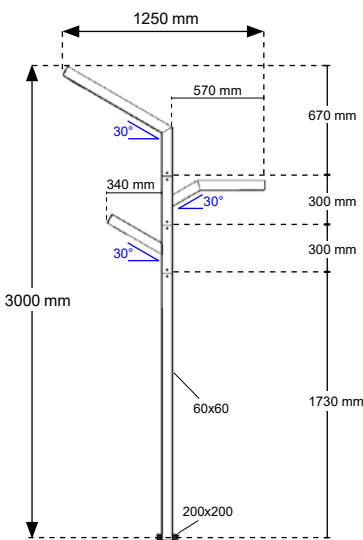


### ACCESSORIES

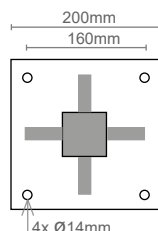
IP68 connection - Connex 2 / 4 / 6  
Anchor kit ground fixing - Fix 03 ref: AC.FX23.GZ

### ON REQUEST

Other RAL colors  
Other led color: 2200K / 2700K / 5000K  
Led 57W 2200K / 2700K / 3000K / 4000K / 5000K  
Dimmable power supply 220-240V  
Other dimensions (customized)

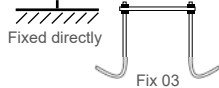


Base Plate



for 4 anchor bolts M10 (not supplied)  
pour 4 tiges de scellement M10 (non fournies)  
voor 4 ankerbouten M10 (niet meegeleverd)  
für 4 Ankerschrauben M10 (nicht enthalten)

Each part can be fixed as you choice at 90°  
Other dimensions (customized) = on request



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 7010.1 **XXX** . **XX**  
led color

### LED

**D31** 28,5W (3x 9,5W) - 4000K  
**W31** 28,5W (3x 9,5W) - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey

2200K / 2700K / 5000K = on request

57W: 2200K / 2700K / 3000K / 4000K / 5000K = on request

max.  
efficacy  
121lm/W

Typical luminous flux (lm)		
	28,5W	57W
2700 K	2985	5970
3000 K	3105	6210
4000 K	3285	6570
5000 K	3450	6900

# Artist

## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M



# 230V

## 11W - 34W



Sampa L1

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Asymmetrical silicone lens anti-UV, efficiency 89%  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK08



### ACCESSORIES

IP65 IP68 connection - Connex 2 / 4 / 6  
230V Anchor kit ground fixing - Fix 02 ref: AC.FX22.GZ

IK08

### ON REQUEST



Other RAL colors or dimensions (customized)



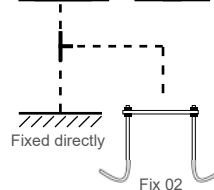
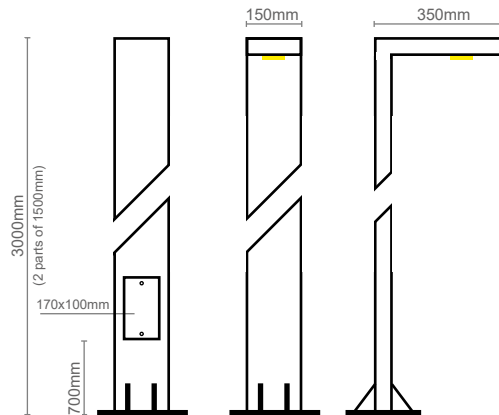
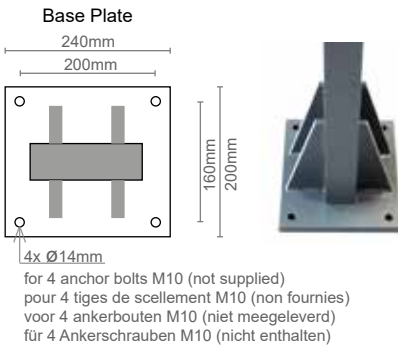
Other led color: 2200K / 2700K / 5000K

Led 11W or 34W: 2200K / 2700K / 3000K / 4000K / 5000K



Dimmable power supply 220-240V

Presence or motion detector (around 8m)



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 7017.L1 **XX** . **XX**  
                  |           |  
                  led       color

### LED

**N3** 17W - 4000K  
**W3** 17W - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 2700K / 5000K = on request  
11W or 34W 2200K / 2700K / 3000K / 4000K / 5000K = on request

max.  
efficacy  
142lm/W

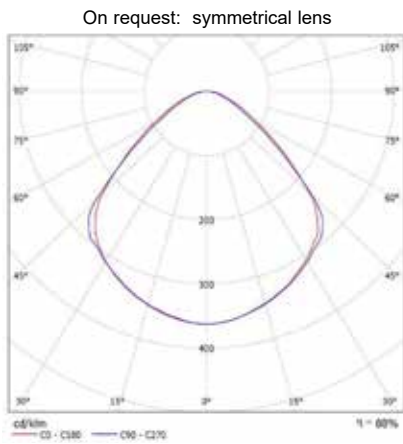
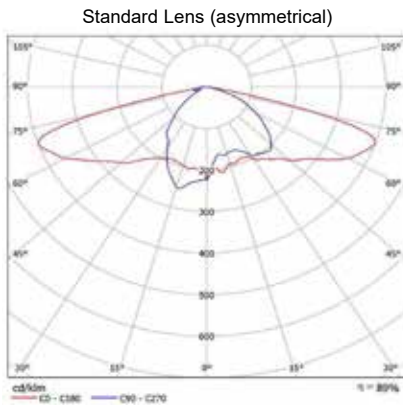
	Typical luminous flux (lm)		
	11W	17W	34W
2700 K	1350	2090	4180
3000 K	1400	2180	4360
4000 K	1480	2310	4620
5000 K	1540	2415	4830

## Applications

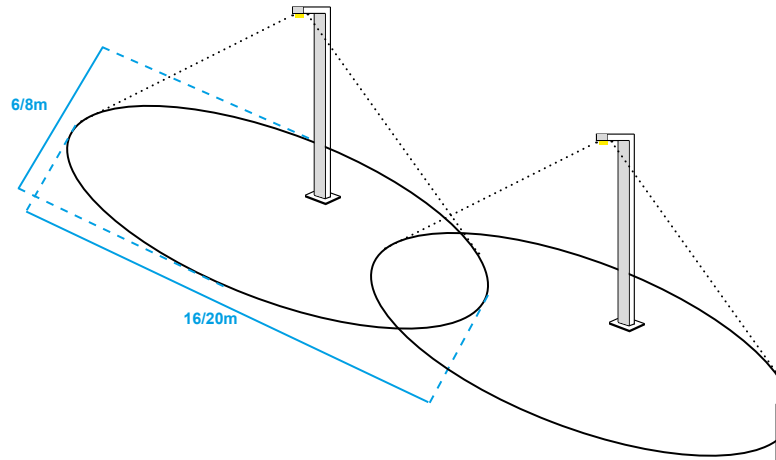
- Footpath
- Car park
- Park
- Building entrance
- Bicycle path
- PRM area

# Sampa L1

## Led garden bollard



34W = on request



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M



# 230V

## 22W - 34W



Sampa L2

### DESCRIPTION

Body made in profile aluminum  
Screws in stainless steel  
Asymmetrical silicone lens anti-UV, efficiency 89%  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Degree of protection IP65 - IK08



### ACCESSORIES

IP65 IP68 connection - Connex 2 / 4 / 6  
230V Anchor kit ground fixing - Fix 02 ref: AC.FX22.GZ

IK08

### ON REQUEST



Other RAL colors or dimensions (customized)



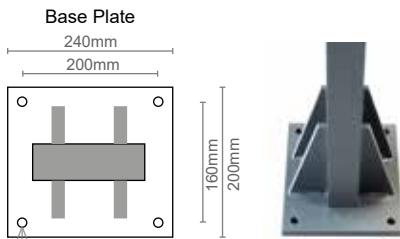
Other led color: 2200K / 2700K / 5000K

Led 2x11W: 2200K / 2700K / 3000K / 4000K / 5000K



Dimmable power supply 220-240V

Presence or motion detector (around 8m)



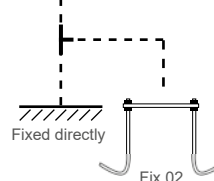
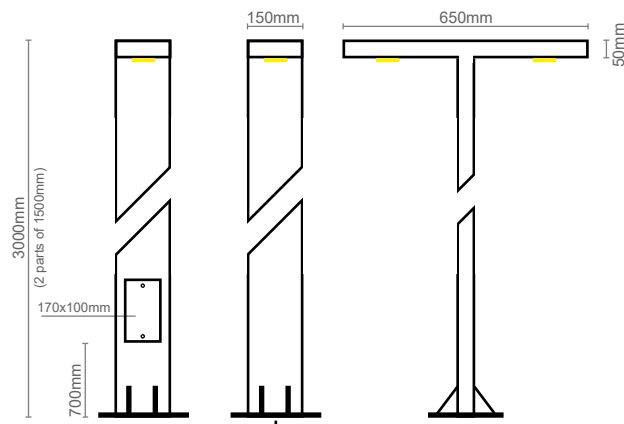
Base Plate

240mm  
200mm

160mm  
200mm

4x Ø14mm

for 4 anchor bolts M10 (not supplied)  
pour 4 tiges de scellement M10 (non fournies)  
voor 4 ankerbouten M10 (niet meegeleverd)  
für 4 Ankerschrauben M10 (nicht enthalten)



See more details accessories pages.  
Voir plus de détails pages des accessoires.  
Zie meer details accessoires pagina's.  
Mehr Details auf den Zubehörseiten.

code: 7017.L2 XX . XX

led  
color

### LED

**N3** 2x 17W - 4000K  
**W3** 2x 17W - 3000K

### COLOR

**02** Black  
**24** Corten  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 2700K / 5000K = on request

2x 11W 2200K / 2700K / 3000K / 4000K / 5000K = on request

max.  
efficacy  
142lm/W

Typical luminous flux (lm)			
	11W	17W	34W
2700 K	1350	2090	4180
3000 K	1400	2180	4360
4000 K	1480	2310	4620
5000 K	1540	2415	4830

## Applications

- Footpath
- Car park
- Park
- Building entrance
- Bicycle path
- PRM area

# Sampa L2

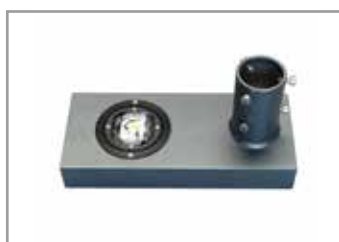
## Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M



Available on request



with detector

# 230V

## 9W



Elyo FL

### DESCRIPTION

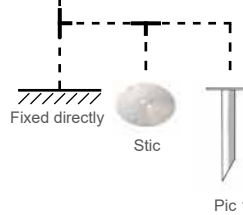
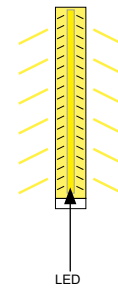
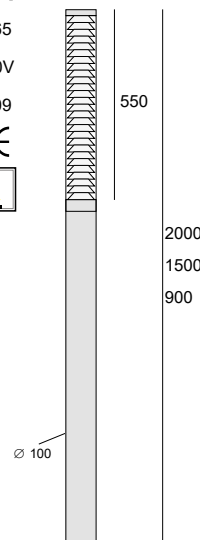
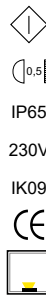
Body made in aluminum or stainless steel  
 Screws in stainless steel  
 Safety clear polycarbonate  
 Anti-glare grid made in aluminum  
 Led CRI>90 3SDCM 77.000hrs L80 B20  
 Power supply 220-240V incorporated  
 Degree of protection IP65 - IK09

### ACCESSORIES

Spike for ground fixing - Pic 1 (not for 2000mm)  
 Base plate d.200mm - Stic ref: X004.\_.\_

### ON REQUEST

Other RAL colors  
 Other led color: 3000K / 4000K  
 Dimmable power supply 220-240V  
 Dimmable power supply with remote control  
 Other dimensions (customized)



See more details accessories pages.  
 Voir plus de détails pages des accessoires.  
 Zie meer details accessoires pagina's.  
 Mehr Details auf den Zubehörseiten.

max. efficacy 90lm/W

Typical luminous flux (lm)	
9W	
2700 K	760
3000 K	810
4000 K	820

code: 217. X XX . XX  
 height | led | color

### HEIGHT

- 1 900 mm
- 2 1500 mm
- 3 2000 mm

3000K / 4000K = on request

### LED

- 27 LED 9W - 2700K

### COLOR

- 02 Black
- 04 Brushed stainless steel
- 24 corten
- 39 Grey

	Weight (kg)		
	900mm	1500mm	2000mm
02,24,39	3,40	5,50	7,30
04	4,90	9,40	13,20

# Elyo FL

Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M



# 230V

## 14W - 26W



Nomad 1



IP65

230V

IK07



max.  
efficacy  
90lm/W

	Typical luminous flux (lm)	
	14W	26W
2700 K	1180	2190
3000 K	1260	2340
4000 K	1270	2350

code: 7018. **XXX** . **XX**  
↑ height  
↑ color

### HEIGHT

**127** 1230mm / 14W - 2700K

**227** 2000mm / 26W - 2700K

3000K / 4000K = on request

### COLOR

**02** Black  
**24** Corten  
**32** Anodized aluminum  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

### DESCRIPTION

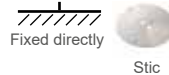
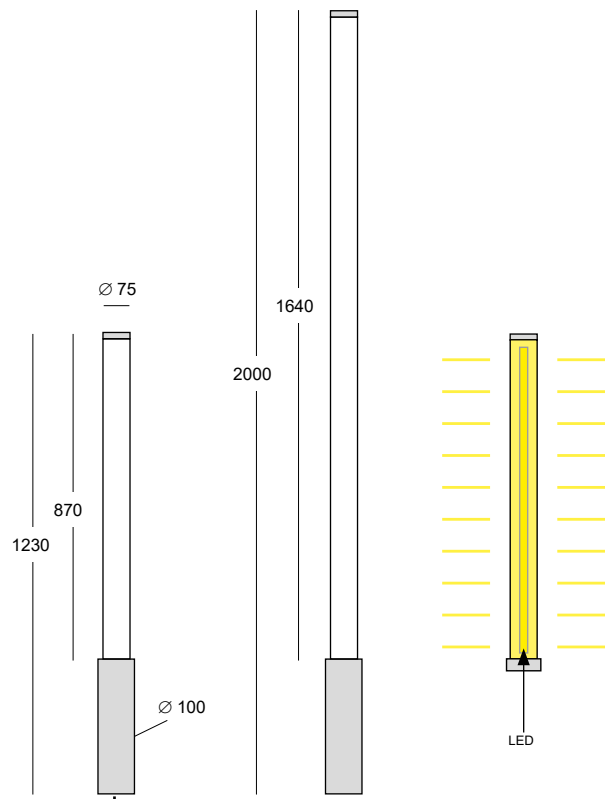
Body made in aluminum  
 Screws in stainless steel  
 Safety sandblasted plexiglass  
 Led CRI>80 3SDCM 60.000hrs L80 B10  
 Power supply 220-240V incorporated  
 Degree of protection IP65 - IK07

### ACCESSORIES

Base plate d.200mm - Stic ref: X004. \_\_  
 Spike for ground fixing - Pic 1 ref: 802.00.02

### ON REQUEST

Other RAL colors  
 Other led color: 3000K / 4000K  
 Dimmable power supply 220-240V  
 Dimmable power supply with remote control  
 Other dimensions (customized)



Pic 1

See more details accessories pages.  
 Voir plus de détails pages des accessoires.  
 Zie meer details accessoires pagina's.  
 Mehr Details auf den Zubehörseiten.

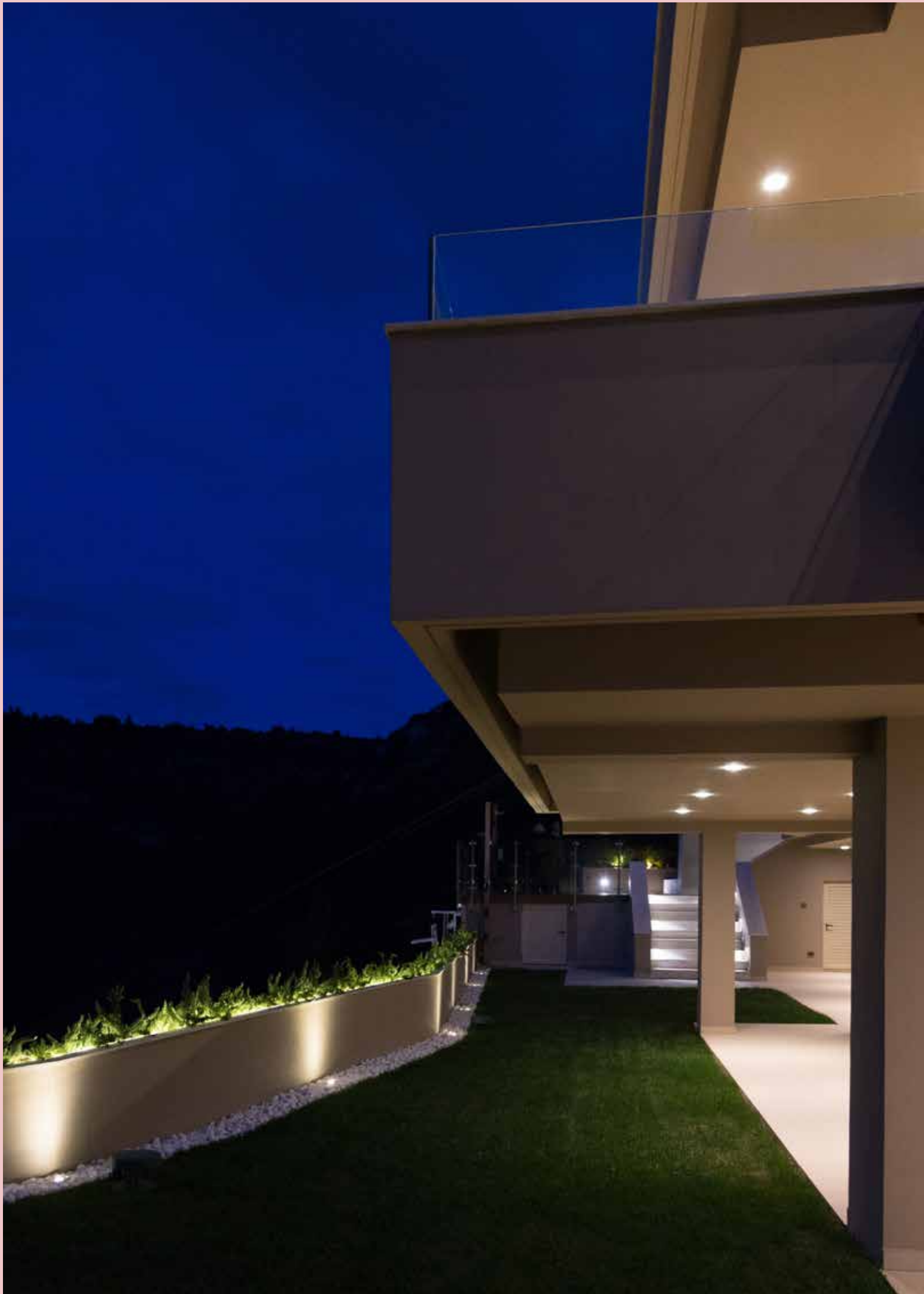
# Nomad 1

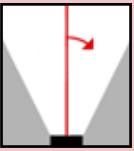
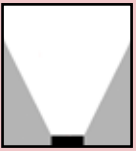
Led garden bollard



EXTERIOR LIGHTING  
GARDEN BOLLARD > 1,5M







Exterior

# Floor lighting

# CUSTOMIZATION - PERSONNALISATION

## Floor uplighting

For more than 30 years, we have been continuously innovating and improving our lighting techniques for recessed in-ground luminaires. Our quality criteria and manufacturing processes by machining allow perfect control of the quality and robustness of this class of devices. There are many possibilities to install these luminaires as there are many different types of recess. Flood protection, the weight supported, the need to be in permanent immersion, the depth and quality of the ground, the dimension of the recess, etc... are important criteria which play a decisive role in defining the selection of the right one product.

You will find below the different series possibilities offered by BEL Lighting.

### WE ALSO CUSTOMIZE:

- Dimension of the cover plate
- Custom output cable length
- 2200K, 2700K, 3000K, 4000K and 5000K are often available on request (if not standard)
- LED CRI>90 is often available on request (if not standard)
- White sandblasted glass is often available on request (if not standard)

Feel free to ask a question if you would like customization

## Spots de sol

Depuis plus de 30 ans, nous innovons et améliorons en permanence nos techniques d'éclairage pour les luminaires encastrés dans le sol. Nos critères de qualité et procédés de fabrication par usinage permettent une maîtrise parfaite de la qualité et la robustesse de cette classe d'appareils. Il existe de nombreuses possibilités d'installer ces luminaires comme il existe de nombreux types d'encastrement différents. La protection contre les inondations, le poids supporté, le besoin d'être en immersion permanente, la profondeur et la qualité du sol, la dimension d'encastrement, etc... sont des critères importants qui jouent un rôle décisif pour définir la sélection du bon produit.

Vous trouverez ci-après les différentes possibilités de série qu'offre BEL Lighting.

### NOUS PERSONNALISONS AUSSI :

- Dimension de la collerette sur mesure
- Longueur du câble de sortie sur mesure
- 2200K, 2700K, 3000K, 4000K et 5000K sont souvent disponibles sur demande (si pas de série)
- LED CRI>90 est souvent disponible sur demande (si pas de série)
- Verre sablé blanc est souvent disponible sur demande (si pas de série)

N'hésitez pas à nous contacter pour toutes demandes de personnalisation

## Bodenleuchten

Seit mehr als 30 Jahren erneuern und verbessern wir unsere Beleuchtungstechniken für Bodeneinbauleuchten kontinuierlich. Unsere Qualitätskriterien und Fertigungsverfahren durch spanende Bearbeitung ermöglichen eine perfekte Kontrolle der Qualität und Robustheit dieser Geräteklasse. Es gibt viele Möglichkeiten, diese Leuchten zu installieren, da es viele verschiedene Arten von Aussparungen gibt. Hochwasserschutz, das abgestützte Gewicht, die Notwendigkeit des ständigen Untertauchens, die Tiefe und Beschaffenheit des Bodens, die Größe der Vertiefung usw. sind wichtige Kriterien, die bei der Auswahl des richtigen Bodens eine entscheidende Rolle spielen produkt.

Nachfolgend finden Sie unsere verschiedene Serienmöglichkeiten die BEL Lighting anbietet.

### ANPASSUNGSMÖGLICHKEITEN:

- Abmessung der Deckplatte
- Benutzerdefinierte Länge des Ausgangskabels
- 2200K, 2700K, 3000K, 4000K und 5000K sind oft auf Anfrage erhältlich (wenn nicht Standard)
- LED CRI>90 ist oft auf Anfrage erhältlich (wenn nicht Standard)
- Weißes sandgestrahltes Glas ist oft auf Anfrage erhältlich (falls nicht Standard)

Sprechen Sie uns gerne an, wenn Sie eine Frage haben oder Sie wünschen evtl. Anpassungen.



# 350mA & 230V

## 3,2W - 4W



Micro TR



IP65  
IK09



### DESCRIPTION

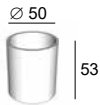
Body made in solid aluminum or stainless steel  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety plexiglass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Class 1 (230V) or Class 3 (350mA)


### ACCESSORIES

Led driver 350mA CC (not for 230V model)  
Lens 10° - ref: AC.8041.32

### ON REQUEST

Other RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Only for led 3,2W 350mA: 2200K / 3000K / 5000K  
Only for led 4W 230V : 3000K / 4000K



code: 1107. XXX . XX  DIMMABLE  
          led    color

### LED

**D32** 3,2W 350mA - 4000K - 70°  
**W03** 4W 230V - 2700K - 70°  
**W32** 3,2W 350mA - 2700K - 70°

### COLOR

**01** White  
**02** Black  
**04** Brushed stainless steel  
**32** Anodized aluminum

1,1W 350mA 2700K / 3000K / 4000K / 5000K = on request  
3,2W 350mA 2200K / 3000K / 5000K = on request  
4W 230V 3000K / 4000K = on request

max.  
efficacy  
128lm/W

	Typical luminous flux (lm)	
	4W	3,2W
2700 K	315	355
3000 K	320	370
4000 K	340	395
5000 K		410

# Micro TR

## Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Surface





Max TR



IP65

230V

IK09



## DESCRIPTION

Body made in aluminum, stainless steel, brass or copper  
Screws in stainless steel  
Degree of protection IP65 - IK09  
Safety clear plexiglass

## ON REQUEST

Other RAL colors  
Other anodized color  
Other dimensions (customized)

Ø 60



117mm

code: 756. GU . XX  
color



## BULB

GU GU10 LED (max. height 58mm)

## COLOR

00	Natural brushed aluminum	
02	Black	
04	Brushed stainless steel	
07	Brushed brass	
21	Brushed copper	
39	Grey	

# Max TR

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Surface



# 350mA

## 3,2W - 6W



### DESCRIPTION

Body made in solid anodized aluminum or stainless steel 316L  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP67 - IK09  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 3m cable



IP67

350mA

IK09

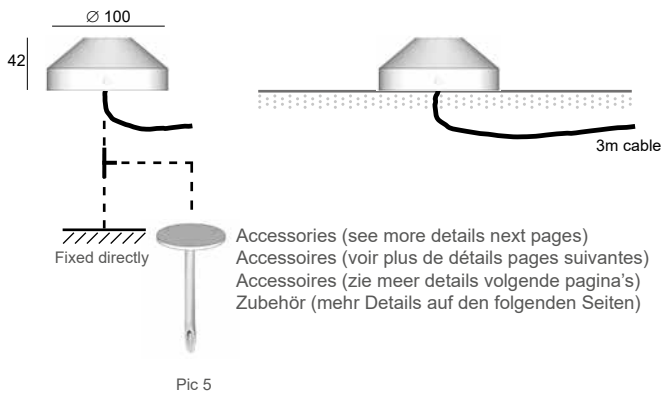


### ACCESSORIES

Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Anti-glare honeycomb - Louver ref: X060.029.3  
Spike for ground fixing - Pic 5 ref: 804.05.02A  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other led color: 2200K / 5000K  
Other cable length (customized)  
Other anodized color



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)	
	3,2W	6W
2700 K	355	725
3000 K	370	760
4000 K	395	805
5000 K	410	845

code: 365. XX X . XX  
led power color



### LED

27 2700K  
30 3000K  
40 4000K

### POWER

2 3,2W 70°  
3 6W 70°

### COLOR

02A Anodized black  
16 Brushed stainless steel 316L  
32 Anodized aluminum  
33 Anodized bronze

2200K / 5000K = on request

# Focus

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Surface



# 500mA

## 4,5W - 9,5W



Target



IP66

500mA

IK07



### DESCRIPTION

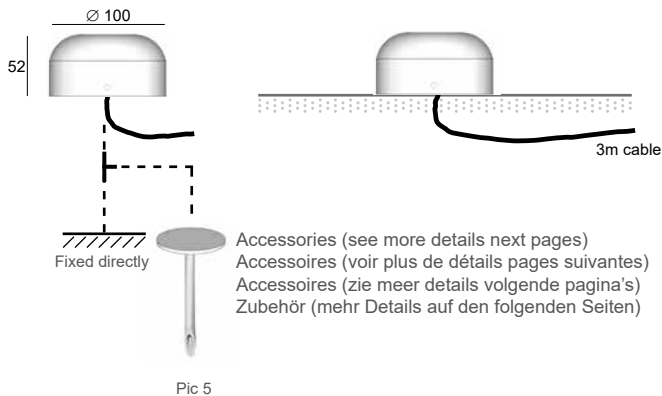
Body made in solid anodized aluminum  
Screws in stainless steel  
Safety clear plexiglass  
Degree of protection IP66 - IK07  
Led 500mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 3m cable

### ACCESSORIES

Led driver AC/CC from 200mA to 500mA  
Led driver DC/CC (12-36VDC/200mA to 500mA)  
Spike for ground fixing - Pic 5 ref: 804.05.02A  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color  
Painted in RAL colors  
Other led color: 2200K / 5000K  
Other cable length (customized)



max.  
efficacy  
134lm/W

	Typical luminous flux (lm)			
	Led 4,5W		Led 9,5W	
	350mA 3,2W	500mA 4,5W	350mA 6W	500mA 9,5W
2700 K	355	480	725	995
3000 K	370	510	760	1035
4000 K	395	540	805	1095

code: 367. XX X XX . XX

led  
power  
angle  
color



LED	POWER	ANGLE	COLOR
27 2700K	2 4,5W 500mA	15 15°	02A Anodized black
30 3000K	3 9,5W 500mA	36 36°	32 Anodized aluminum
40 4000K		50 50°	

2200K / 5000K = on request

# Target

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Surface



∅ min: 32mm

min: 85mm

# 350mA

3,2W



Zona V



IP68

350mA

IK10



#### DESCRIPTION

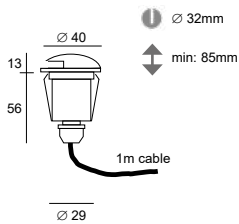
Body made in solid anodized aluminum or solid brass  
Cover plate in stainless steel 316L or copper  
Degree of protection IP68, water depth up to 1m  
Safety clear plexiglass  
Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1500kg

#### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

#### ON REQUEST

Other anodized color  
Other material: brushed brass  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



code: 8084V. **XXX** . **XX**  
          led       color



max.  
efficacy  
128lm/W

Typical luminous flux (lm)	
3,2W	
2700 K	355
3000 K	370
4000 K	395
5000 K	410

#### LED

**D30** 3,2W - 4000K  
**W30** 3,2W - 2700K

#### COLOR

**16** Brushed stainless steel 316L  
**21** Brushed copper

2200K / 3000K / 5000K = on request

# Zona V

## Led ground surface illumination



EXTERIOR LIGHTING  
FLOOR - GROUND SURFACE ILLUMINATION



Ø min: 32mm

min: 85mm

# 350mA

## 3,2W



Zona H



IP68

350mA

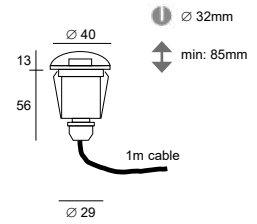
IK10



code: 8084H. XXX . XX



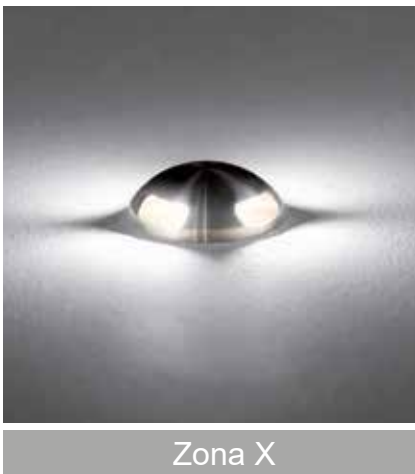
DIMMABLE



code: 8084X. XXX . XX  
led color



DIMMABLE



Zona X



IP68

350mA

IK10



max. efficacy  
128lm/W

Typical luminous flux (lm)	
	3,2W
2700 K	355
3000 K	370
4000 K	395
5000 K	410

### LED

**D30** 3,2W - 4000K  
**W30** 3,2W - 2700K

### COLOR

**16** Brushed stainless steel 316L  
**21** Brushed copper

2200K / 3000K / 5000K = on request

# Zona HX

## Led ground surface illumination



### DESCRIPTION

Body made in solid anodized aluminum or solid brass  
Cover plate in stainless steel 316L or copper  
Degree of protection IP68, water depth up to 1m  
Safety clear plexiglass  
Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1500kg

### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color  
Other material: brushed brass  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Ø min: 32mm

min: 85mm

350mA  
3,2W



Tango R-V



IP67

350mA

IK10



Tango R-H



IP67

350mA

IK10



Tango R-X



IP67

350mA

IK10



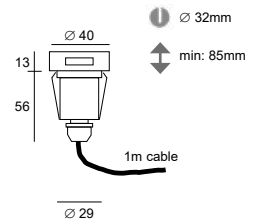
code: 8085V. XXX . XX



code: 8085H. XXX . XX



code: 8085X. XXX . XX  
led color



max. efficacy  
128lm/W

Typical luminous flux (lm)	
	3,2W
2700 K	355
3000 K	370
4000 K	395
5000 K	410

**LED**

**D30** 3,2W - 4000K  
**W30** 3,2W - 2700K

**COLOR**

**01** White  
**22** Brown  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

# Tango R

## Led ground surface illumination



### DESCRIPTION

---

Body made in solid aluminum  
Screws in stainless steel  
Degree of protection IP67 - IK10  
Safety clear plexiglass  
Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

### ACCESSORIES

---

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

---

Other RAL colors  
Other anodized color  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Ø min: 32mm

min: 85mm

# 350mA

## 3,2W



Tango K-V



0,5

IP67

350mA

IK10

0,20



Tango K-H



0,5

IP67

350mA

IK10

0,20



Tango K-X



0,5

IP67

350mA

IK10

0,20



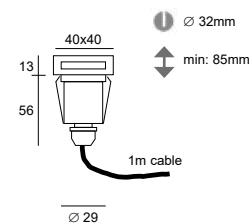
code: 8087V. XXX . XX



code: 8087H. XXX . XX



code: 8087X. XXX . XX  
led color



### LED

**D30** 3,2W - 4000K  
**W30** 3,2W - 2700K

### COLOR

**01** White  
**22** Brown  
**39** Grey  
**48** Dark Grey (RAL 7016 structured)

2200K / 3000K / 5000K = on request

max. efficacy  
128lm/W

Typical luminous flux (lm)	
3,2W	
2700 K	355
3000 K	370
4000 K	395
5000 K	410

# Tango K

## Led ground surface illumination



### DESCRIPTION

---

Body made in solid aluminum  
Screws in stainless steel  
Degree of protection IP67 - IK10  
Safety clear plexiglass  
Led COB 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

### ACCESSORIES

---

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

---

Other RAL colors  
Other anodized color  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Ø min: 78mm

min: 90mm

# 350-500mA

11W - 17W



Bolas V



0.5

IP67

IK10

0.55



code: 8028V. X XX . XX



Bolas H

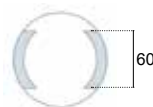


0.5

IP67

IK10

0.55



code: 8028H. X XX . XX



Bolas X

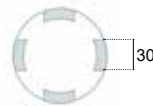


0.5

IP67

IK10

0.55



code: 8028X. X XX . XX



led power color

### LED

D 5000K  
N 4000K  
W 2700K

### POWER

13 11W - 350mA  
23 17W - 500mA

### COLOR

02 Black  
32 Anodized aluminum  
39 Grey

2200K / 3000K = on request

6W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request



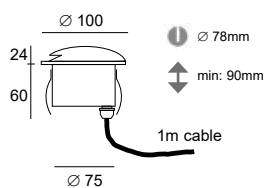
# Bolas VHX

## Led ground surface illumination

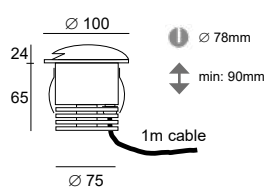


EXTERIOR LIGHTING  
FLOOR - GROUND SURFACE ILLUMINATION

### 6W (on request)



### 11W - 17W



max.  
efficacy  
142lm/W

Typical luminous flux (lm)			
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety extra clear glass 10mm thickness  
Degree of protection IP67 - IK10  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 2140kg (21000 N)

### ACCESSORIES

Recessed box - Pop 8b ref: X067B  
Led driver AC/CC 350mA or 500mA CC  
Led driver DC/CC (24VDC/350mA or 500mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color  
Other RAL colors  
Other material: brass / copper / ...  
Other led color: 2200K / 3000K  
Other cable length (customized)

Ø min: 78mm

min: 95mm

230V  
6W - 10W



Bolas V 230V



IP67

230V

IK10



code: 8028V. X XX . XX



Bolas H 230V



IP67

230V

IK10



code: 8028H. X XX . XX



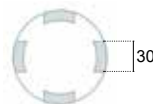
Bolas X 230V



IP67

230V

IK10



code: 8028X. X XX . XX

led power color



LED

W 3000K

2700K / 4000K = on request

POWER

63 6W - 230V  
73 10W - 230V

COLOR

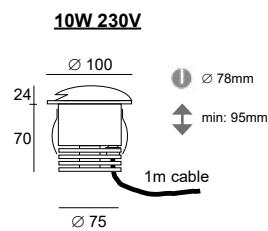
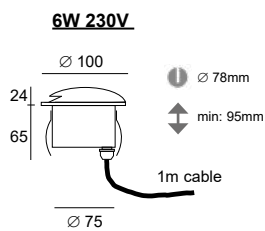
02 Black  
32 Anodized aluminum  
39 Grey

# Bolas VHX 230V

## Led ground surface illumination



EXTERIOR LIGHTING  
FLOOR - GROUND SURFACE ILLUMINATION



max.  
efficacy  
102lm/W

	Typical luminous flux (lm)	
	6W	10W
2700 K	460	930
3000 K	470	950
4000 K	480	1020

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety extra clear glass 10mm thickness  
Degree of protection IP67 - IK10  
Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
Provided with 1m cable  
Max. 2140kg (21000 N)

### ACCESSORIES

Recessed box - Pop 8a/8b ref: X067A / X067B  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other anodized color  
Other RAL colors  
Other material: brass / copper / ...  
Other led color: 2700K / 4000K  
Other cable length (customized)

# 350-500mA

## 1,1W - 9W



Pharos V



IP67

350mA

IK10



code: 363V. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 1,1W - 350mA	02A Anodized black
30 3000K	2 3,2W - 350mA	32 Anodized aluminum
40 4000K		33 Anodized bronze

With 500mA power supply = 1,6W or 4,5W



Pharos H



IP67

350mA

IK10



code: 363H. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 2x 1,1W - 350mA	02A Anodized black
30 3000K	2 2x 3,2W - 350mA	32 Anodized aluminum
40 4000K		33 Anodized bronze

With 500mA power supply = 2x 1,6W or 2x 4,5W



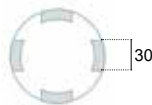
Pharos X



IP67

350mA

IK10



code: 363X. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 4x 1,1W - 350mA	02A Anodized black
30 3000K		32 Anodized aluminum
40 4000K		33 Anodized bronze

With 500mA power supply = 4x 1,6W



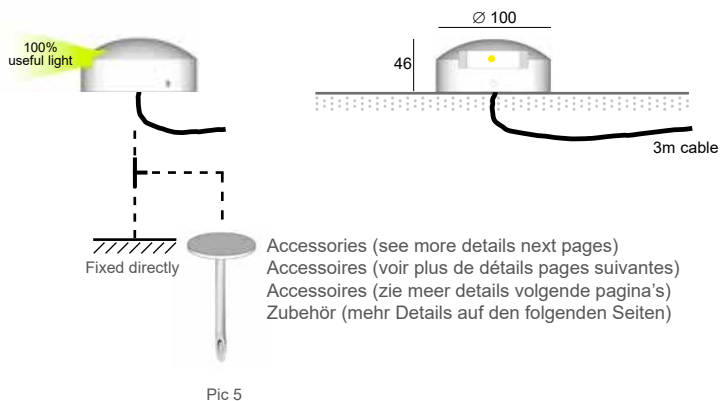
# Pharos VHX

## Led ground surface illumination

EXTERIOR LIGHTING  
FLOOR - GROUND SURFACE ILLUMINATION



100%  
useful light



max.  
efficacy  
123lm/W

	Typical luminous flux (lm)			
	Led 1,1W		Led 3,2W	
	350mA 1,1W	500mA 1,6W	350mA 3,2W	500mA 4,5W
2700 K	115	165	355	480
3000 K	125	175	370	510
4000 K	135	185	395	535

Example:  
PHAROS X 3000K With 500mA power supply  
4x 1,6W = total 6,4W  
4x 175lm = total 700 lumens

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety satinice plexiglass  
Degree of protection IP67 - IK10  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 3m cable

### ACCESSORIES

Led driver AC/CC 350mA or 500mA CC  
Led driver DC/CC (24VDC/350mA or 500mA)  
Spike for ground fixing - Pic 5 ref: 804.05.02A  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Painted in RAL colors  
Other anodized color  
Other material: brass / copper / ...  
Only for led 3,2W 350mA: 2200K / 5000K  
Other cable length (customized)

Ø min: 65mm

min: 120mm

# 230V

1,1W - 6,4W



Pharos V 230V



0,5

IP67

230V

IK10

0,95



code: 364V. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 1,1W - 230V	02A Anodized black
30 3000K	2 3,2W - 230V	32 Anodized aluminum
40 4000K		33 Anodized bronze

On request: 1,6W or 4,5W



Pharos H 230V



0,5

IP67

230V

IK10

0,95



code: 364H. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 2x 1,1W - 230V	02A Anodized black
30 3000K	2 2x 3,2W - 230V	32 Anodized aluminum
40 4000K		33 Anodized bronze

On request: 2x 1,6W or 2x 4,5W



Pharos X 230V



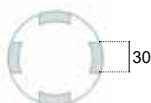
0,5

IP67

230V

IK10

0,95



code: 364X. **XX** **X** . **XX**  
led power color



LED	POWER	COLOR
27 2700K	1 4x 1,1W - 230V	02A Anodized black
30 3000K		32 Anodized aluminum
40 4000K		33 Anodized bronze

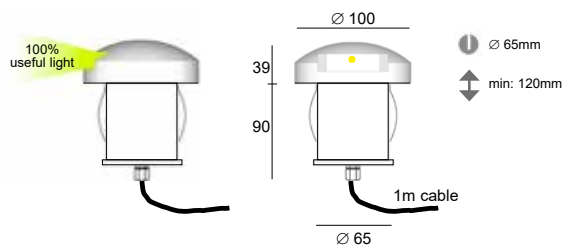
On request: 4x 1,6W

# Pharos VHX

## Led ground surface illumination



EXTERIOR LIGHTING  
FLOOR - GROUND SURFACE ILLUMINATION



max. efficacy  
123lm/W

	Typical luminous flux (lm)			
	1,1W	1,6W	3,2W	4,5W
2700 K	115	165	355	480
3000 K	125	175	370	510
4000 K	135	185	395	535

### DESCRIPTION

Body made in solid anodized aluminum  
Screws in stainless steel  
Safety satinice plexiglass  
Degree of protection IP67 - IK10  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 10a/10b ref: X054A / X054B  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

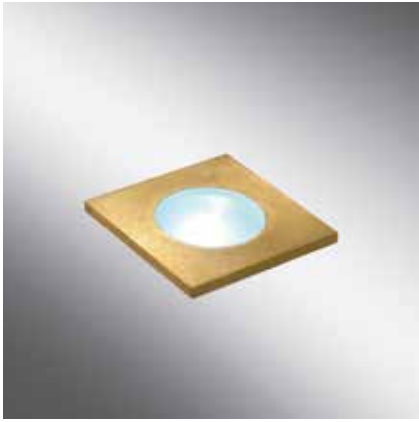
Power supply 24VDC included  
Painted in RAL colors  
Other material: brass / copper / ...  
Only for led 3,2W 350mA: 2200K / 5000K  
Other cable length (customized)

Ø min: 40mm

min: 70mm

# 350mA

1,1W - 3,2W



Genesis

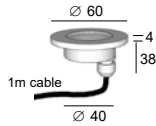


IP66

350mA



code: 1152. **XXX** . **XX**  
led color

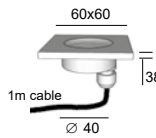
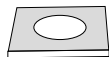


Ø 40mm

min: 70mm

fixing is also possible with 2 screws  
distances: 50mm

code: 1153. **XXX** . **XX**  
led color



Ø 40mm

min: 80mm

fixing is also possible with 2 screws  
distances: 50mm

max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

### LED

**D11** 1,1W - 4000K  
**W11** 1,1W - 2700K

### COLOR

**04** Brushed stainless steel  
**07** Brushed brass

3000K / 5000K = on request

3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Genesis

## Led uplighting



### DESCRIPTION

Body made in solid stainless steel or brass  
Degree of protection IP66  
Safety sandblasted glass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 3 ref: X053  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Anodized color cover plate  
Other led color: 3000K / 5000K  
Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
Other cable length (customized)

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 32mm

min: 85mm

350mA  
1,1W - 3,2W



Zona R



IP68

350mA

IK06



#### DESCRIPTION

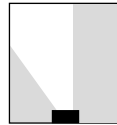
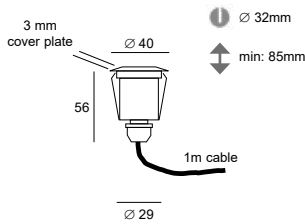
Body made in solid anodized aluminum  
Cover plate in stainless steel or anodized black aluminum  
Degree of protection IP68, water depth up to 1m  
Safety extra clear glass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1000kg

#### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Anti-glare honeycomb - Louver ref: X060.021.3  
Asymmetrical beam - visor HC ref: X061.022.2  
IP68 connection - Connex 2 / 3 / 4

#### ON REQUEST

Other anodized color cover plate  
Other material: brass / copper / ...  
Sandblasted glass  
Other led color: 2200K / 3000K / 5000K  
Other cover plate dimensions (customized)



Asymmetrical beam with Visor HC (half-circle)

max. efficacy  
132lm/W

code: 8022. X XX .XX  
led power color



	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

LED	POWER	COLOR
<b>D</b> 4000K	<b>11</b> 1,1W 10°	<b>02A</b> Anodized black
<b>W</b> 2700K	<b>13</b> 1,1W 35°	<b>04</b> Brushed stainless steel
	<b>31</b> 3,2W 35°	
	<b>32</b> 3,2W 50°	

2200K / 3000K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

# Zona R

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



∅ min: 32mm

min: 95mm

# 350mA

1,1W - 3,2W



IP68

350mA

IK06



### DESCRIPTION

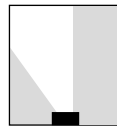
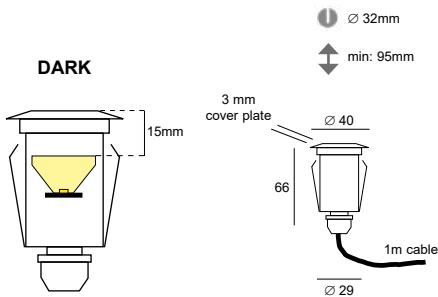
Body made in solid anodized aluminum  
Cover plate in stainless steel or anodized black aluminum  
Degree of protection IP68, water depth up to 1m  
Safety extra clear glass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1000kg

### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Anti-glare honeycomb - Louver ref: X060.021.3  
Asymmetrical beam - visor HC ref: X061.022.2  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color cover plate  
Other material: brass / copper / ...  
Sandblasted glass  
Other led color: 2200K / 5000K  
Other cover plate dimensions (customized)



Asymmetrical beam with Visor HC (half-circle)

max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 8022D. XX XX .XX  
led power color



LED	POWER	COLOR
27 2700K	11 1,1W 10°	02A Anodized black
30 3000K	31 3,2W 20°	04 Brushed stainless steel
40 4000K		

2200K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

# Zona R Dark



Led uplighting

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



∅ min: 32mm

↑ min: 85mm

# 350mA

1,1W - 3,2W



Zona S



IP68

350mA

IK06



### DESCRIPTION

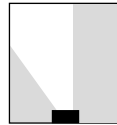
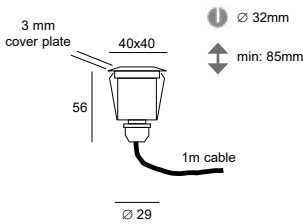
Body made in solid anodized aluminum  
Cover plate in stainless steel or anodized black aluminum  
Degree of protection IP68, water depth up to 1m  
Safety extra clear glass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1000kg

### ACCESSORIES

Recessed box - Pop 12 ref: X012  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Anti-glare honeycomb - Louver ref: X060.021.3  
Asymmetrical beam - visor HC ref: X061.022.2  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color cover plate  
Other material: brass / copper / ...  
Sandblasted glass  
Other led color: 2200K / 3000K / 5000K  
Other cover plate dimensions (customized)



Asymmetrical beam with Visor HC (half-circle)

max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 8023. X XX .XX

led  
power  
color



### LED

**D** 4000K  
**W** 2700K

### POWER

**11** 1,1W 10°  
**13** 1,1W 35°  
**31** 3,2W 35°  
**32** 3,2W 50°

### COLOR

**02A** Anodized black  
**04** Brushed stainless steel

2200K / 3000K / 5000K = on request

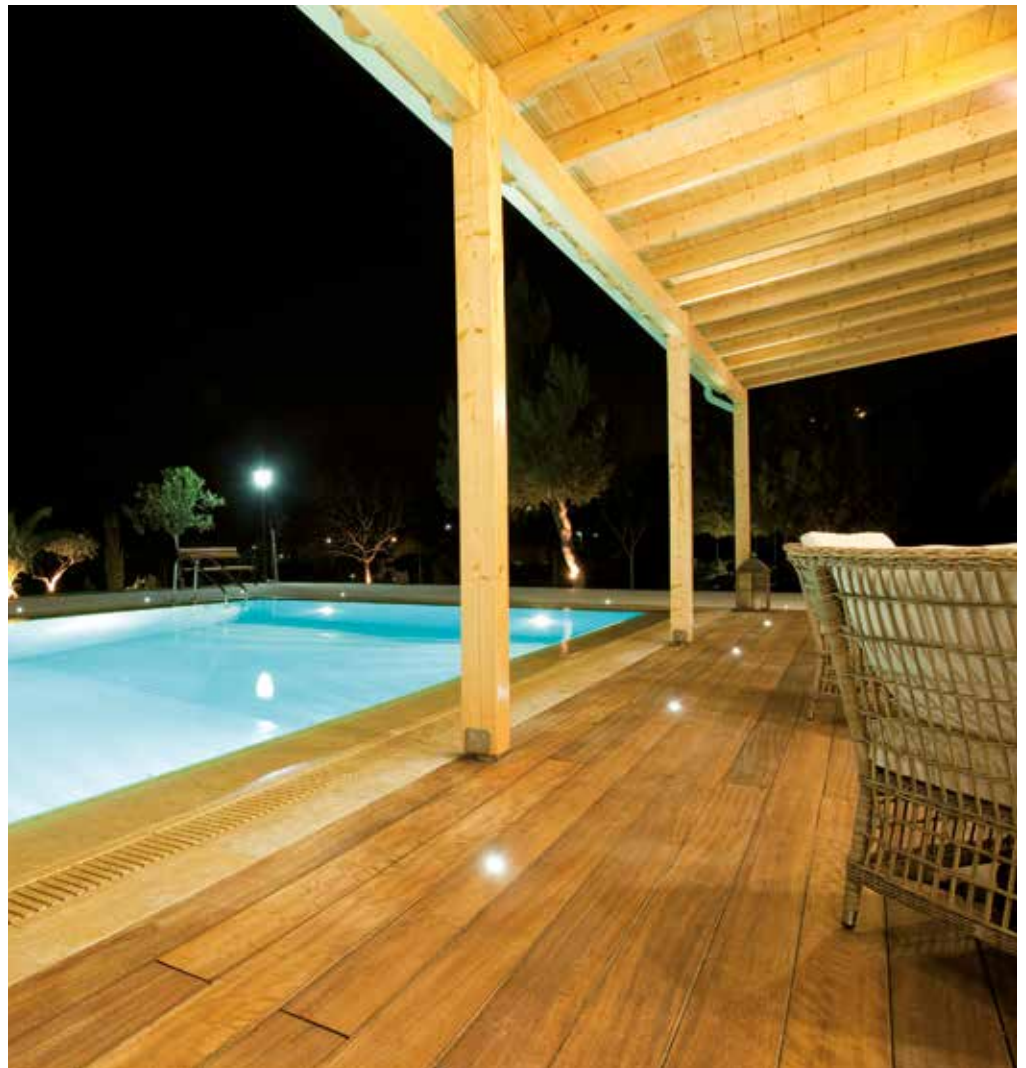
For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

# Zona S

## Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



∅ min: 45mm  
 min: 100mm



ADJUSTABLE

350mA  
 1,1W - 3,2W



Xeno R



IP68

350mA

IK06



**DESCRIPTION**

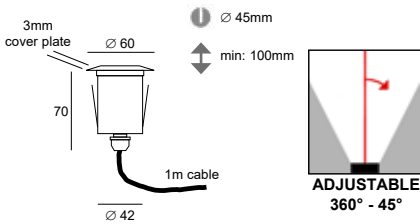
Body made in solid anodized aluminum  
 Cover plate in stainless steel or anodized black aluminum  
 Degree of protection IP68, water depth up to 1m  
 Safety extra clear glass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable  
 Max. 1000kg

**ACCESSORIES**

Recessed box - Pop 11a/11b ref: X015A / X015B  
 Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Other anodized color cover plate  
 Other material: brass / copper / ...  
 Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other cover plate dimensions (customized)



code: 8024. X XX .XX

led  
power  
color



DIMMABLE

max. efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

LED	POWER	COLOR
<b>D</b> 4000K	<b>11</b> 1,1W 10°	<b>02A</b> Anodized black
<b>W</b> 2700K	<b>13</b> 1,1W 35°	<b>04</b> Brushed stainless steel
	<b>31</b> 3,2W 35°	
	<b>32</b> 3,2W 50°	

2200K / 3000K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

# Xeno R



Led uplighting

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 45mm  
 min: 100mm



ADJUSTABLE

350mA  
 1,1W - 3,2W



Xenos S



IP68

350mA

IK06



**DESCRIPTION**

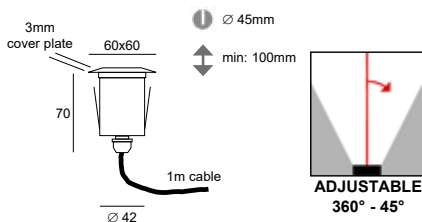
Body made in solid anodized aluminum  
 Cover plate in stainless steel or anodized black aluminum  
 Degree of protection IP68, water depth up to 1m  
 Safety extra clear glass  
 Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable  
 Max. 1000kg

**ACCESSORIES**

Recessed box - Pop 11a/11b ref: X015A / X015B  
 Led driver AC/CC 350mA  
 Led driver DC/CC (12-36VDC/350mA)  
 IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Other anodized color cover plate  
 Other material: brass / copper / ...  
 Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other cover plate dimensions (customized)



code: 8025. X XX .XX

led  
 power  
 color



DIMMABLE

max.  
 efficacy  
 132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

LED	POWER	COLOR
D 4000K	11 1,1W 10°	02A Anodized black
W 2700K	13 1,1W 35°	04 Brushed stainless steel
	31 3,2W 35°	
	32 3,2W 50°	

2200K / 3000K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

# Xeno S

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 45mm

min: 120mm

# 350mA

1,1W - 3,2W



Xeno Y



IP68

350mA

IK06



### DESCRIPTION

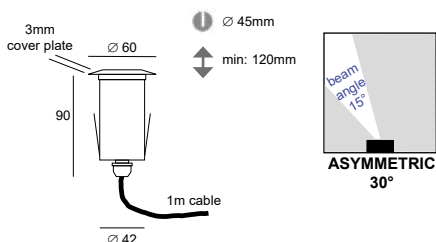
Body made in solid anodized aluminum  
Cover plate in stainless steel or anodized black aluminum  
Degree of protection IP68, water depth up to 1m  
Safety extra clear glass  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Provided with 1m cable  
Max. 1000kg


### ACCESSORIES

Recessed box - Pop 11a/11b ref: X015A / X015B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other anodized color cover plate  
Other material: brass / copper / ...  
Sandblasted glass  
Other led color: 2200K / 5000K  
Other cover plate dimensions (customized)



code: 8024Y. XX X .XX  DIMMABLE  
led  
power  
color

### LED

27 2700K  
30 3000K  
40 4000K

### POWER

13 1,1W 15°  
31 3,2W 15°

### COLOR

02A Anodized black  
04 Brushed stainless steel

2200K / 5000K = on request

For some applications, led 1,1W can be used with a driver 500mA to obtain for example +/- 1,6W 10° 4000K 185 lumens

max. efficacy 132lm/W

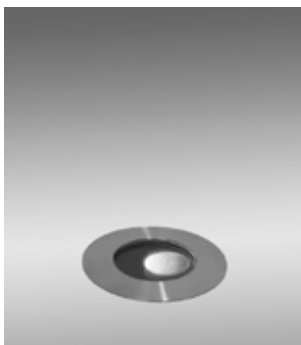
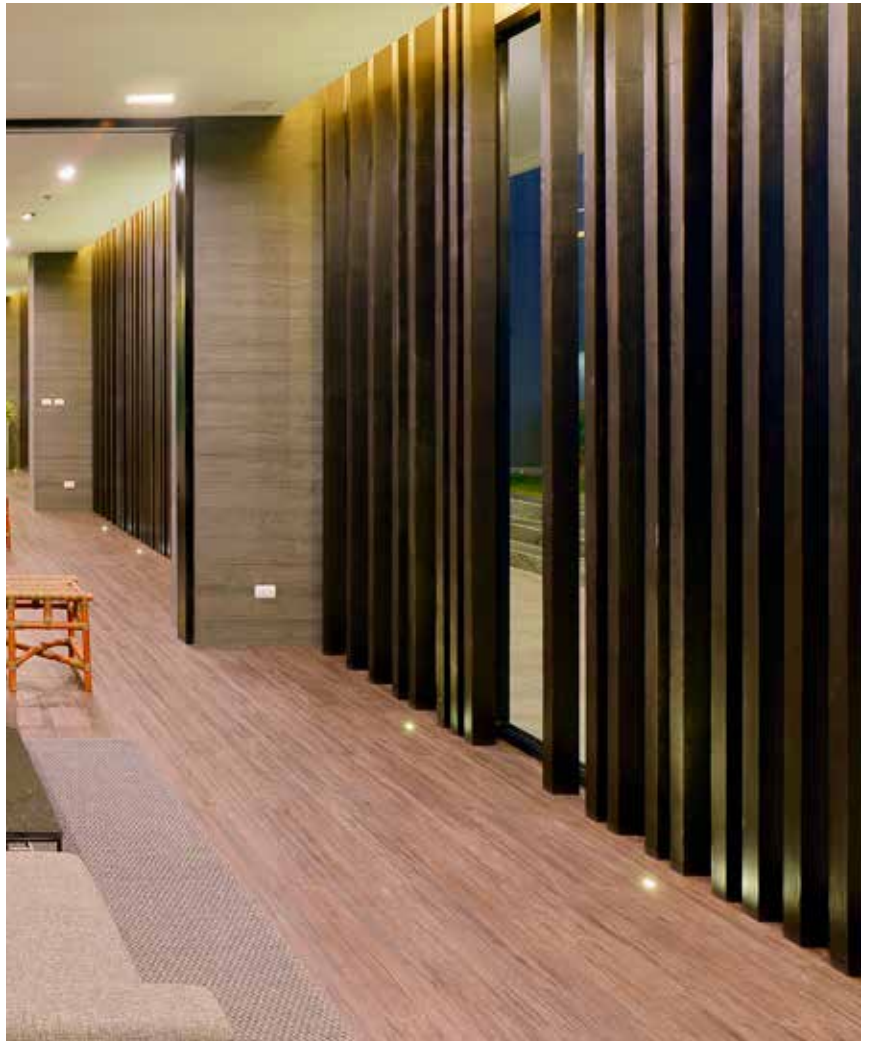
	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

# Xeno Y

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 68mm

min: 90mm

# 350mA - 500mA

## 6W - 9,5W



Perla-R Dark



IP68

500mA

IK10



### DESCRIPTION

Body made in solid anodized aluminum  
 Cover plate in stainless steel 316L or anodized aluminum  
 Degree of protection IP68, water depth up to 1m  
 Safety extra clear glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable  
 Max. 2140kg (21000 N)

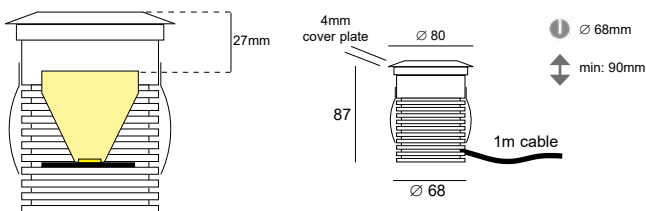
### ACCESSORIES


Recessed box - Pop 10a/10b ref: X054A / X054B  
 Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-36VDC/200mA to 500mA)  
 Anti-glare honeycomb - Louver ref: X060.050.3  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
 Other cable length (customized)  
 Other cover plate dimensions (customized)  
 Other anodized color cover plate

DARK



code: 362. XX XXX . XX   
 led power color

max. efficacy  
141lm/W

	Typical luminous flux (lm)	
	350mA 6W	500mA 9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

LED	POWER	COLOR
27 2700K	910 9,5W - 10°	02A Anodized black
30 3000K	925 9,5W - 25°	16 Brushed stainless steel 316L
40 4000K	940 9,5W - 40°	32 Anodized aluminum
		33 Anodized bronze

2200K / 5000K = on request  
 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Perla-R Dark



Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed

Ø min: 68mm

min: 90mm

# 350mA - 500mA

## 6W - 9,5W



Perla-S Dark



IP68

500mA

IK10



### DESCRIPTION

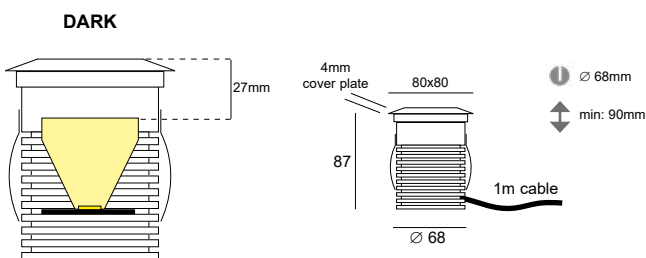
Body made in solid anodized aluminum  
 Cover plate in anodized aluminum  
 Degree of protection IP68, water depth up to 1m  
 Safety extra clear glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Provided with 1m cable  
 Max. 2140kg (21000 N)


### ACCESSORIES

Recessed box - Pop 10a/10b ref: X054A / X054B  
 Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-36VDC/200mA to 500mA)  
 Anti-glare honeycomb - Louver ref: X060.050.3  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Led 3,2W 350mA: 2200K / 2700K / 3000K / 4000K / 5000K  
 Other cable length (customized)  
 Other anodized color cover plate



code: 368. XX . XXX . XX 

led power color

max. efficacy  
14lm/W

	Typical luminous flux (lm)	
	350mA 6W	500mA 9,5W
2700 K	725	995
3000 K	760	1035
4000 K	805	1095
5000 K	845	1150

LED	POWER	COLOR
27 2700K	910 9,5W - 10°	02A Anodized black
30 3000K	925 9,5W - 25°	32 Anodized aluminum
40 4000K	940 9,5W - 40°	33 Anodized bronze

2200K / 5000K = on request  
 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

# Perla-S Dark

Led uplighting



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 65mm

min: 100mm

350mA  
1,1W - 6W

EXTRA CLEAR  
GLASS



code : 1

SANDBLASTED  
GLASS



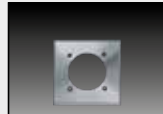
code : 2

Ø 75mm



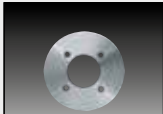
code : 7.16

75 x 75mm



code : 8.16

Ø 100mm

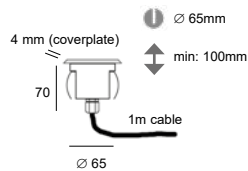


code : 9.16

100 x 100mm



code : D.16



max.  
efficacy  
141lm/W

	Typical luminous flux (lm)		
	1,1W	3,2W	6W
2700 K	115	355	725
3000 K	125	370	760
4000 K	135	395	805
5000 K	145	410	845

code: 2257 XXXC X X .16

led  
glass  
cover plate



Without driver (350mA)

#### LED

**D14** 1,1W - 4000K - 35°  
**D37** 3,2W - 4000K - 50°  
**D67** 6W - 4000K - 50°  
**W14** 1,1W - 2700K - 35°  
**W37** 3,2W - 2700K - 50°  
**W67** 6W - 2700K - 50°

#### GLASS

**1** Extra clear glass  
**2** Sandblasted glass

#### COVER PLATE

**7** Round d.75mm  
**8** Square 75x75mm  
**9** Round d.100mm  
**D** Square 100x100mm

#### COLOR

**16** Brushed stainless steel 316L

On request:  
 Anodized color  
 Brushed brass

2200K / 3000K / 5000K = on request  
 1,1W 10° = on request  
 3,2W or 6W 35° = on request

# Zaxor Mini



## Led uplighting

### DESCRIPTION

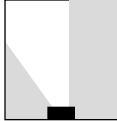
Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear or sandblasted glass 10mm thickness  
Led 350mA CRI>90 3SDCM 85.000hrs L80 B10  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 10a/10b ref: X054A / X054B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
Anti-glare honeycomb - Louver ref: X060.021.3  
Asymmetrical beam - visor HC ref: X061.022.2  
IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Cover plate in brushed brass (07)  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Asymmetrical beam with Visor HC (half-circle)



IP67

350mA

IK10



Zaxor Mini (350mA)

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed

Ø min: 65mm

min: 130mm

230V  
1,1W - 3,2W

EXTRA CLEAR  
GLASS



code : 1

SANDBLASTED  
GLASS



code : 2

Ø 75mm



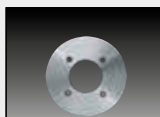
code : 7.16

75 x 75mm



code : 8.16

Ø 100mm

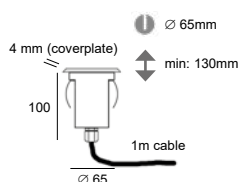


code : 9.16

100 x 100mm



code : D.16



max.  
efficacy  
132lm/W

	Typical luminous flux (lm)	
	1,1W	3,2W
2700 K	115	355
3000 K	125	370
4000 K	135	395
5000 K	145	410

code: 2258 XXXC X X .16 Driver 220-240V incorporated

led  
glass  
cover plate

**LED**

**D14** 1,1W - 4000K - 35°  
**D37** 3,2W - 4000K - 50°  
**W14** 1,1W - 2700K - 35°  
**W37** 3,2W - 2700K - 50°

**GLASS**

**1** Extra clear glass  
**2** Sandblasted glass

**COVER PLATE**

**7** Round d.75mm  
**8** Square 75x75mm  
**9** Round d.100mm  
**D** Square 100x100mm

**COLOR**

**16** Brushed stainless steel 316L

On request:  
Anodized color  
Brushed brass

2200K / 3000K / 5000K = on request  
1,1W 10° = on request  
3,2W 35° = on request

# Zaxor Mini

## Led uplighting



### DESCRIPTION

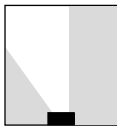
Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear or sandblasted glass 10mm thickness  
Led module CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 10a/10b ref: X054A / X054B  
Anti-glare honeycomb - Louver ref: X060.021.3  
Asymmetrical beam - visor HC ref: X061.022.2  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Power supply 24VDC included  
Other cover plate dimensions (customized)  
Anodized colour or brushed brass cover plate  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Asymmetrical beam with Visor HC (half-circle)



IP67

230V



IK10



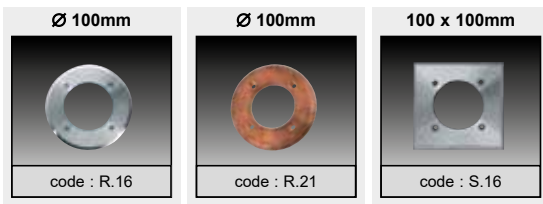
Zaxor Mini (220-240V)


EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



  $\varnothing$  min: 78mm  
 min: 95mm

**230V**  
**4W - 10W**



code: 800C1 **XX** **X** **X** . **XX**  
 led angle cover plate color  
 DIMMABLE TRIAC

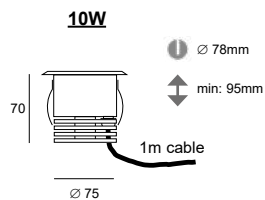
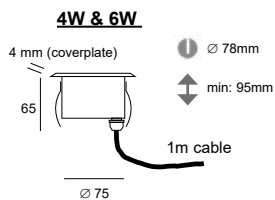
max. efficacy 102lm/W

	Typical luminous flux (lm)		
	4W	6W	10W
2700 K	315	460	930
3000 K	320	470	950
4000 K	340	480	1020

LED	ANGLE	COVER PLATE	COLOR
<b>W4</b> 4W - 3000K	<b>1</b> 15°	<b>R</b> Round d.100mm	<b>16</b> Brushed stainless steel 316L
<b>W6</b> 6W - 3000K	<b>2</b> 36°	<b>S</b> Square 100x100mm	<b>21</b> Copper
<b>W7</b> 10W - 3000K	<b>3</b> 50°		

2700K / 4000K = on request

On request:  
 Anodized color  
 Brushed brass



# Bolas Led

## Led uplighting



### DESCRIPTION

Body made in solid anodized aluminum  
 Cover plate 4mm in stainless steel 316L or copper  
 Screws and spring in stainless steel  
 Safety extra clear glass 10mm thickness  
 Led 230V CRI>90 3SDCM 54.000hrs L80 B10  
 Max. 2140kg (21000 N)  
 Degree of protection IP67 - IK10  
 Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 8a/8b ref: X067A / X067B  
 Anti-glare honeycomb - Louver ref: X060.043.3  
 Asymmetrical beam - visor HC ref: X061.050.2  
 IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other cover plate dimensions (customized)  
 Anodized color cover plate  
 Cover plate in brushed brass (07)  
 Led 2700K or 4000K / Sandblasted glass  
 Other cable length (customized)



IP67

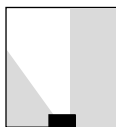
230V

IK10



Bolas Led 230V

EXTERIOR LIGHTING  
 FLOOR UPLIGHTING - Recessed



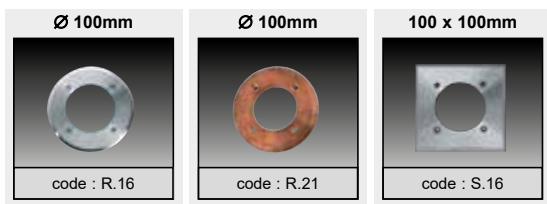
Asymmetrical beam with Visor HC (half-circle)



Ø min: 78mm  
 min: 90mm

# 350mA - 500mA

## 6W - 17W



code: 8028.X X X X.XX

led  
 power  
 angle°  
 cover plate  
 color



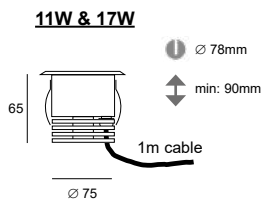
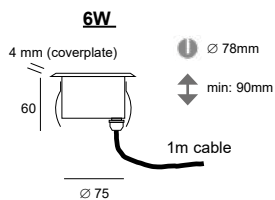
max. efficacy  
142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

LED	POWER	ANGLE	COVER PLATE	COLOR
<b>D</b> 4000K	<b>0</b> 6W 350mA	<b>1</b> 15°	<b>R</b> Round d.100mm	<b>16</b> Brushed stainless steel 316L
<b>W</b> 2700K	<b>1</b> 11W 350mA	<b>2</b> 36°	<b>S</b> Square 100x100mm	<b>21</b> copper
	<b>2</b> 17W 500mA	<b>3</b> 50°		

2200K / 3000K / 5000K = on request  
 3,2W 350mA 2200K / 2700K / 3000K / 4000K / 5000K = on request

On request:  
 Anodized color  
 Brushed brass



# Bolas HPL

## Led uplighting



### DESCRIPTION

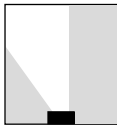
Body made in solid anodized aluminum  
 Cover plate 4mm in stainless steel 316L or copper  
 Screws and spring in stainless steel  
 Safety extra clear glass 10mm thickness  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Max. 2140kg (21000 N) - IK10  
 Degree of protection IP68, water depth up to 1m  
 Provided with 1m cable

### ACCESSORIES

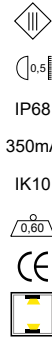
Recessed box - Pop 8a/8b ref: X067A / X067B  
 Led driver AC/CC 350mA or 500mA CC  
 Led driver DC/CC (24VDC/350mA or 500mA)  
 Anti-glare honeycomb - Louver ref: X060.043.3  
 Asymmetrical beam - visor HC ref: X061.050.2  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other cover plate dimensions (customized)  
 Anodized colour or brushed brass cover plate  
 Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other cable length (customized)



Asymmetrical beam with Visor HC (half-circle)



Bolas HP led



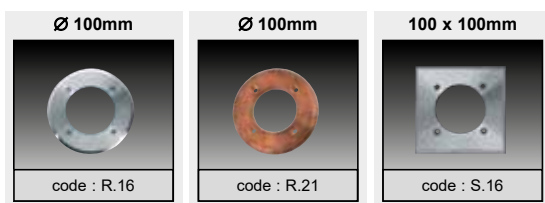
EXTERIOR LIGHTING  
 FLOOR UPLIGHTING - Recessed



Ø min: 78mm

min: 145mm

230V  
GU10



code: 800C1GU X.XX



cover plate  
color

GU10 LED (max. height 56mm)



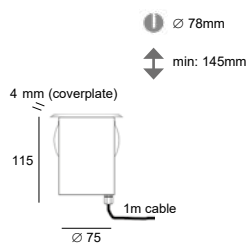
#### COVER PLATE

**R** Round d.100mm  
**S** Square 100x100mm

#### COLOR

**16** Brushed stainless steel 316L  
**21** Copper

[On request:](#)  
[Anodized color](#)  
[Brushed brass](#)



# Bolas

## Led uplighting



### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L or copper  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 8b ref: X067B  
IP68 connection - Connex 2 / 3 / 4 / 6  
Anti-glare honeycomb - Louver ref: X060.043.3

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Cover plate in brushed brass (07)  
Sandblasted glass  
Other cable length (customized)



IP67

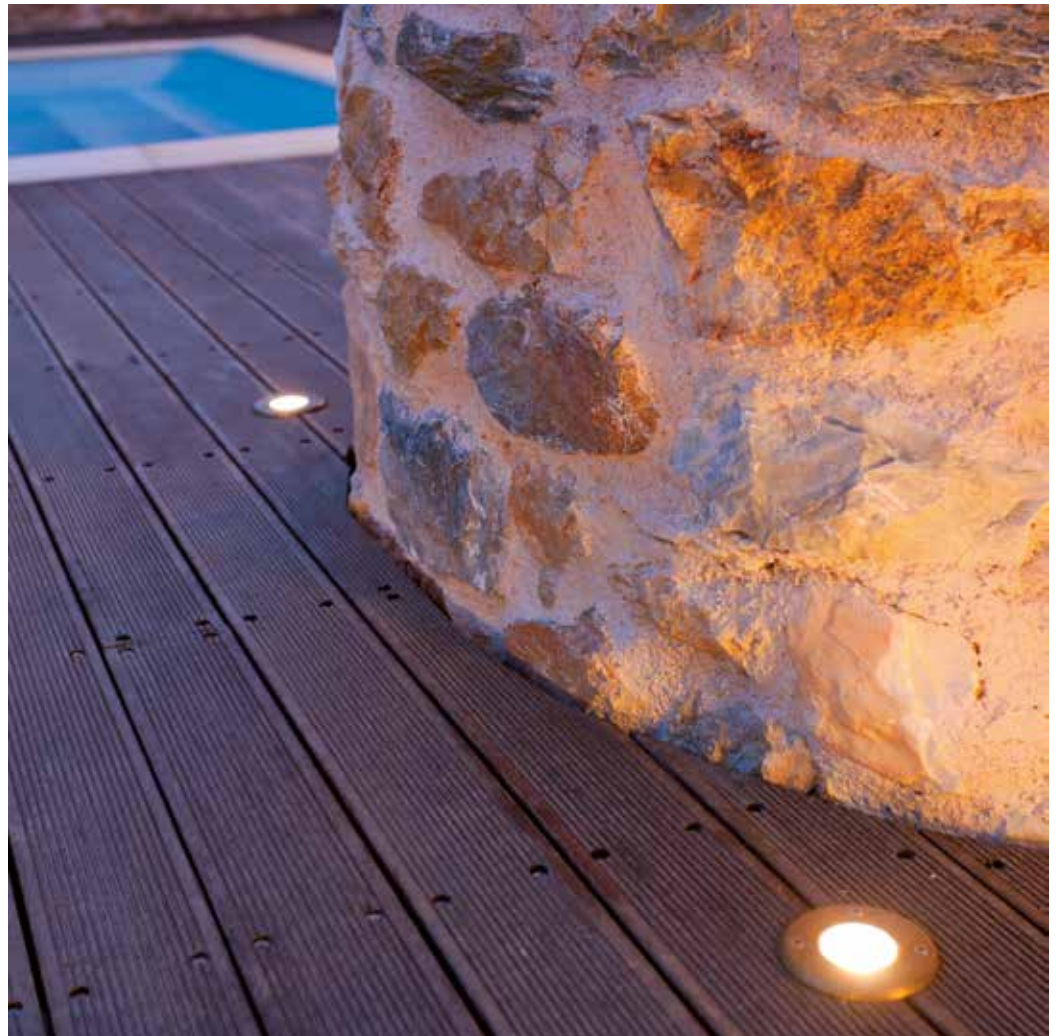
230V



IK10



Bolas

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



  $\varnothing$  min: 100mm  
 min: 105 - 165mm

**230V**  
**GU10**

ON THE BOTTOM



code : A

CLEAR GLASS



code : 1

ON THE SIDE

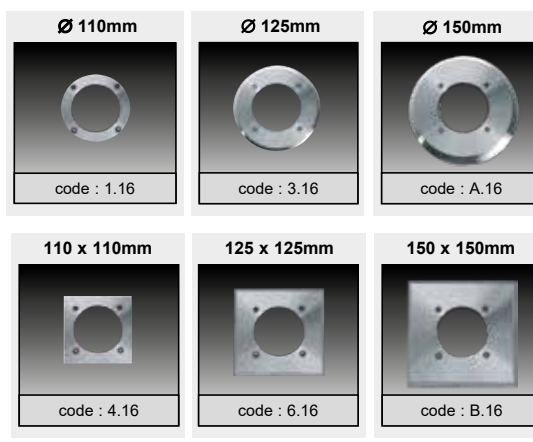


code : B

SANDBLASTED GLASS



code : 2



code: 2201X X X .16



cable gland  
 glass  
 cover plate

GU10 LED (max. height 56mm)



**CABLE GLAND**

**A** on the bottom  
**B** on the side

**GLASS**

**1** Extra clear glass  
**2** Sandblasted glass

**COVER PLATECOVER PLATE**

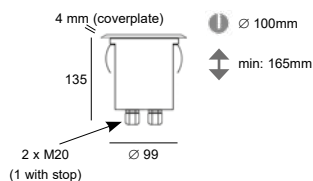
**1** Round d.110mm  
**3** Round d.125mm  
**4** Square 110x110mm  
**6** Square 125x125mm  
**A** Round d.150mm  
**B** Square 150x150mm

**COLOR**

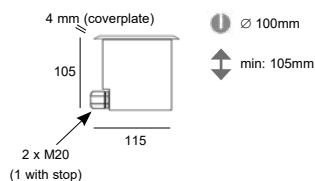
**16** Brushed stainless steel 316L

[On request:](#)  
[Anodized color](#)  
[Brushed brass](#)

**Cable gland: A**



**Cable gland: B**



# Zaxor GZ



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10

### ACCESSORIES

Recessed box - Pop 5b ref: X055B (only for cable gland A)  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Cover plate in brushed brass (07)  
With pre-assembled cable, custom length



IP67

230V



IK10



Zaxor GZ

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



  $\varnothing$  min: 100mm  
 min: 120 - 180mm



230V  
GU10

ON THE BOTTOM



code : A

CLEAR GLASS



code : 1

ON THE SIDE

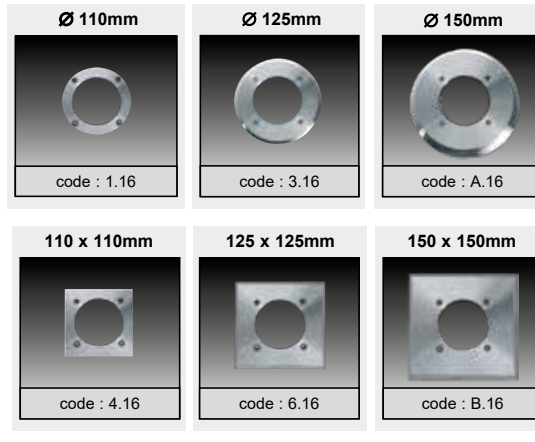


code : B

SANDBLASTED GLASS



code : 2

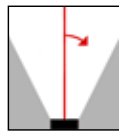


code: 2211X X X .16

cable gland

glass

cover plate



GU10 LED (max. height 56mm)



**CABLE GLAND**

**A** on the bottom  
**B** on the side

**GLASS**

**1** Extra clear glass  
**2** Sandblasted glass

**COVER PLATECOVER PLATE**

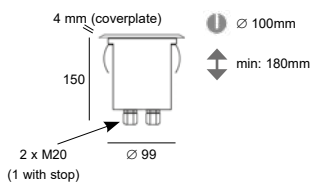
**1** Round d.110mm  
**3** Round d.125mm  
**4** Square 110x110mm  
**6** Square 125x125mm  
**A** Round d.150mm  
**B** Square 150x150mm

**COLOR**

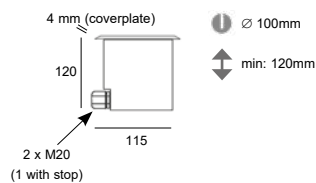
**16** Brushed stainless steel 316L

[On request:](#)  
[Anodized color](#)  
[Brushed brass](#)

**Cable gland: A**



**Cable gland: B**



# Zaxor GZO



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10

### ACCESSORIES

Recessed box - Pop 5b ref: X055B (only for cable gland A)  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Cover plate in brushed brass (07)  
With pre-assembled cable, custom length



IP67

230V

IK10



Zaxor GZO



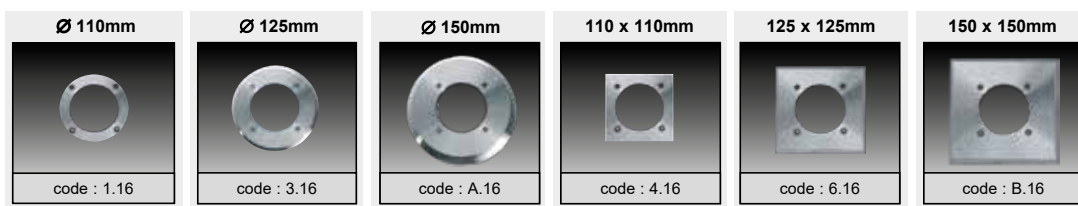
EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed

∅ min: 100mm

min: 95mm

# 350mA - 700mA

## 3,2W - 24W



max. efficacy 142lm/W

	Typical luminous flux (lm)				
	3,2W	6W	11W	17W	24W
2700 K	355	725	1350	2090	2900
3000 K	370	760	1400	2180	3050
4000 K	395	805	1480	2310	3200
5000 K	410	845	1540	2415	3350

code: 2277.XXXX.16



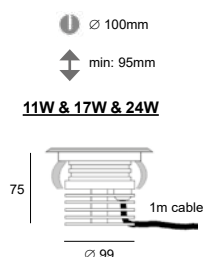
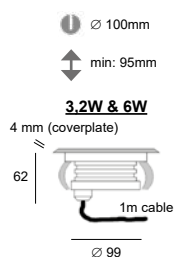
led  
power  
angle°  
cover plate

LED	POWER	ANGLE	COVER PLATE	COLOR
<b>D</b> 4000K	<b>0</b> 3,2W - 350mA	<b>1</b> 15°	<b>1</b> Round d.110mm	<b>16</b> Brushed stainless steel 316L
<b>W</b> 2700K	<b>1</b> 6W - 350mA	<b>3</b> 50°	<b>3</b> Round d.125mm	
	<b>2</b> 11W - 350mA		<b>4</b> Square 110x110mm	
	<b>3</b> 17W - 500mA		<b>6</b> Square 125x125mm	
	<b>4</b> 24W - 700mA		<b>A</b> Round d.150mm	
			<b>B</b> Square 150x150mm	

2200K / 3000K / 5000K = on request

On request:  
2 lens 36°

On request:  
Anodized color  
Brushed brass



# Zaxor Led

## Led uplighting



### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 5a/5b ref: X055A / X055B  
Led driver AC/CC 350mA to 700mA CC  
Led driver DC/CC (24VDC/350mA to 700mA)  
IP68 connection - Connex 2 / 3 / 4  
Anti-glare honeycomb - Louver ref: X060.068.3

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized colour or brushed brass cover plate  
Other led color: 2200K / 3000K / 5000K  
Lens 36° / Sandblasted glass  
Other cable length (customized)



0.5

IP67

IK10

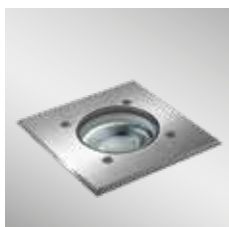
0.80



Zaxor led (xxx mA)



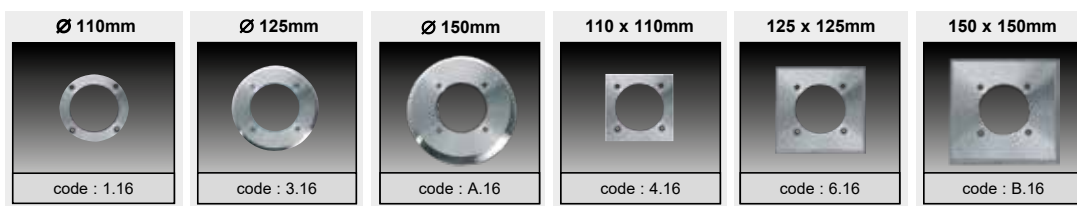
EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 100mm

min: 150mm

230V  
3,2W - 9,5W



code: 2278.XXXX.16

led  
power  
angle°  
cover plate

max.  
efficacy  
141lm/W

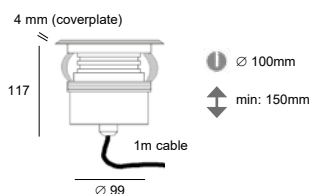
	Typical luminous flux (lm)		
	3,2W	6W	9,5W
2700 K	355	725	995
3000 K	370	760	1035
4000 K	395	805	1095
5000 K	410	845	1150

LED	POWER	ANGLE	COVER PLATE	COLOR
<b>D</b> 4000K	<b>0</b> 3,2W - 230V	<b>1</b> 15°	<b>1</b> Round d.110mm	<b>16</b> Brushed stainless steel 316L
<b>W</b> 2700K	<b>1</b> 6W - 230V	<b>3</b> 50°	<b>3</b> Round d.125mm	
	<b>2</b> 9,5W - 230V	<b>On request:</b>	<b>4</b> Square 110x110mm	<b>On request:</b>
		<b>2 lens 36°</b>	<b>6</b> Square 125x125mm	<b>Anodized color</b>
			<b>A</b> Round d.150mm	<b>Brushed brass</b>
			<b>B</b> Square 150x150mm	

2200K / 3000K / 5000K = on request

On request:  
2 lens 36°

On request:  
Anodized color  
Brushed brass



2278.XXX3.16

# Zaxor Led



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 5b ref: X055B  
IP68 connection - Connex 2 / 3 / 4 / 6  
Anti-glare honeycomb - Louver ref: X060.068.3

### ON REQUEST

Power supply 24VDC included / Lens 36°  
Other cover plate dimensions (customized) / Sandblasted glass  
Anodized colour or brushed brass cover plate  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Dimmable power supply = on request



IP67

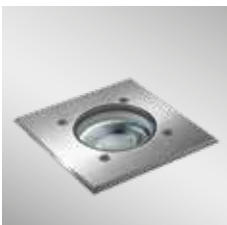
230V



IK10



Zaxor led (220-240V)

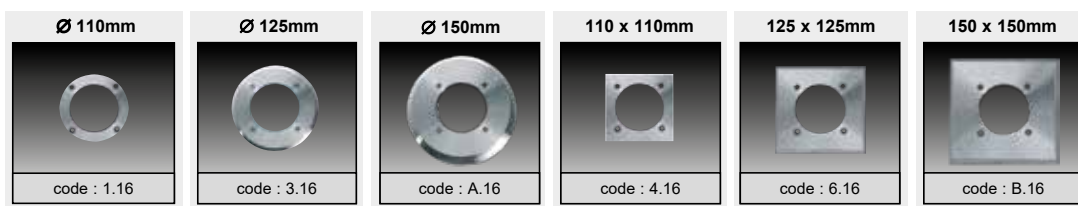
EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



  $\varnothing$  min: 100mm  
 min: 100mm

# 200mA - 450mA

## 7W - 17W



code: 7016.XXX X .16

led  
cover plate



**7W to 17W**

Without driver (200 → 450mA)

max.  
efficacy  
108lm/W

	Typical luminous flux (lm)		
	200mA 7W	350mA 13W	450mA 17W
2700 K	750	1350	1650
3000 K	800	1400	1750
4000 K	850	1450	1800

### LED

**W27** 2700K - 10°  
**W30** 3000K - 10°

4000K = on request

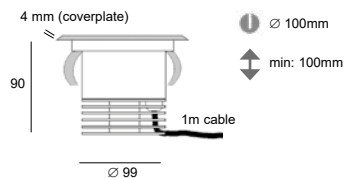
### COVER PLATE

**1** Round d.110mm  
**3** Round d.125mm  
**4** Square 110x110mm  
**6** Square 125x125mm  
**A** Round d.150mm  
**B** Square 150x150mm

### COLOR

**16** Brushed stainless steel 316L

On request:  
 Anodized color  
 Brushed brass



# Zaxor 10°

## Led uplighting



### DESCRIPTION

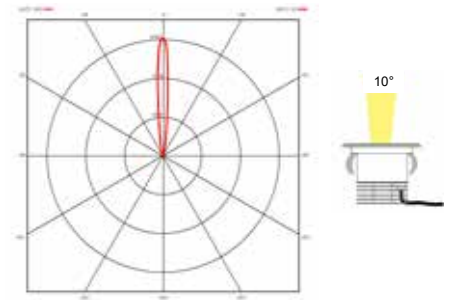
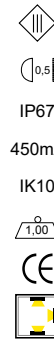
Body made in solid anodized aluminum  
 Cover plate 4mm in stainless steel 316L  
 Screws and spring in stainless steel  
 Safety extra clear glass 10mm thickness  
 Led module COB CRI>80 3SDCM 85.000hrs L80 B10  
 Max. 2140kg (21000 N)  
 Degree of protection IP67 - IK10  
 Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 5b ref: X055B  
 Led driver AC/CC from 200mA to 450mA  
 Led driver DC/CC (12-36VDC/200mA to 450mA)  
 IP68 connection - Connex 2 / 3 / 4  
 Anti-glare honeycomb - Louver ref: X060.064.3

### ON REQUEST

Other cover plate dimensions (customized)  
 Anodized color cover plate  
 Cover plate in brushed brass (07)  
 Sandblasted glass / led color 4000K  
 Other cable length (customized)



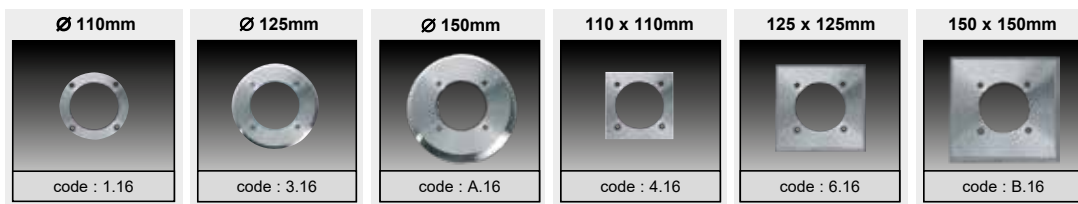
EXTERIOR LIGHTING  
 FLOOR UPLIGHTING - Recessed



∅ min: 100mm  
 min: 170mm



350mA  
 3,2W - 11W



max. efficacy 141lm/W

	Typical luminous flux (lm)		
	3,2W	6W	11W
2700 K	355	725	1350
3000 K	370	760	1400
4000 K	395	805	1480
5000 K	410	845	1540

code: 2407.XXXX.16



led  
 power  
 angle°  
 cover plate

**LED**

**D** 4000K  
**W** 2700K

**POWER**

**0** 3,2W - 350mA  
**1** 6W - 350mA  
**2** 11W - 350mA

**ANGLE**

**1** 15°  
**3** 50°

**COVER PLATE**

**1** Round d.110mm  
**3** Round d.125mm  
**4** Square 110x110mm  
**6** Square 125x125mm  
**A** Round d.150mm  
**B** Square 150x150mm

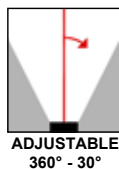
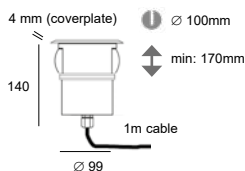
**COLOR**

**16** Brushed stainless steel 316L

2200K / 3000K / 5000K = on request

On request:  
 2 lens 36°

On request:  
 Anodized color  
 Brushed brass



# Zaxor Led-O



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 5b ref: X055B  
Led driver AC/CC 350mA  
Led driver DC/CC (12-36VDC/350mA)  
IP68 connection - Connex 2 / 3 / 4  
Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized colour or brushed brass cover plate  
Other led color: 2200K / 3000K / 5000K  
Lens 36° / Sandblasted glass  
Other cable length (customized)



IP67

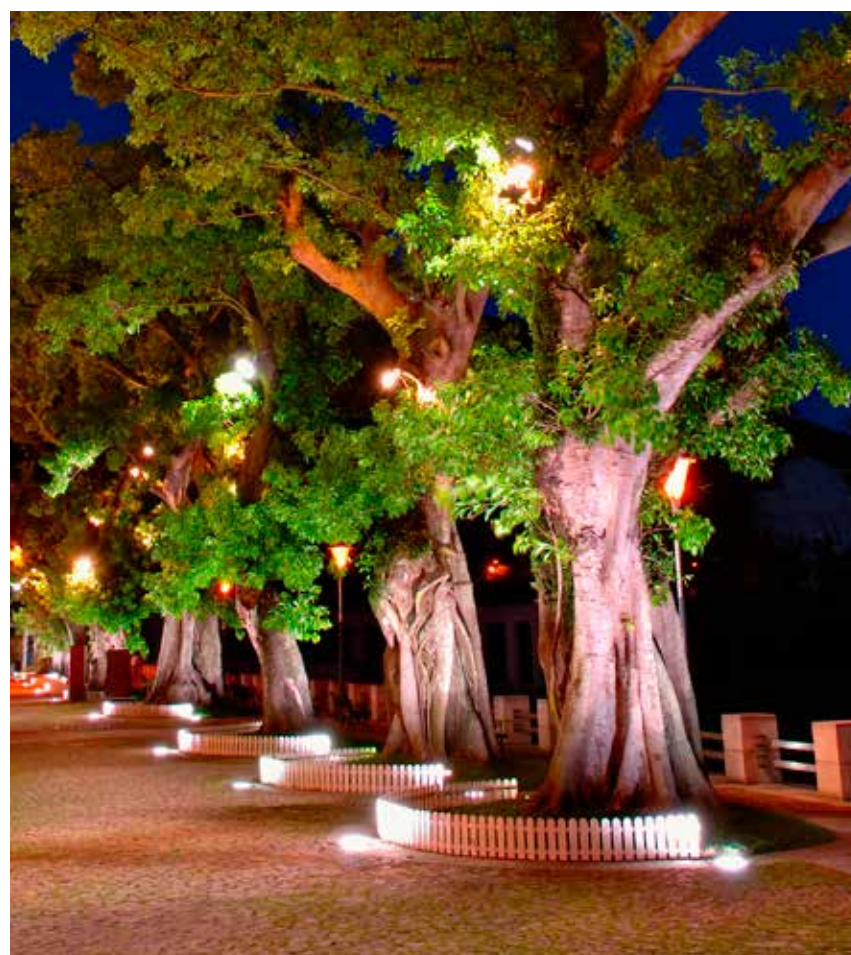
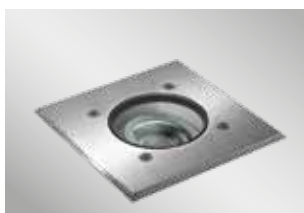
350mA

IK10



Zaxor led-O (350mA)

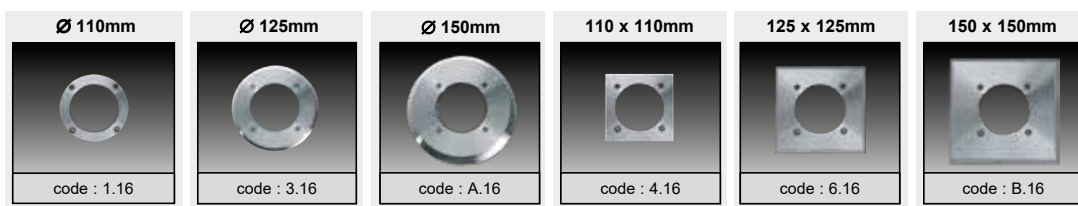
EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



Ø min: 100mm  
 min: 215mm



230V  
 3,2W - 9,5W



max. efficacy 141lm/W

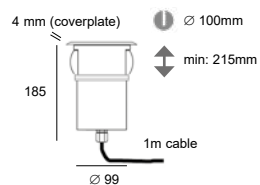
	Typical luminous flux (lm)		
	3,2W	6W	9,5W
2700 K	355	725	995
3000 K	370	760	1035
4000 K	395	805	1095
5000 K	410	845	1150

code: 2408.XXXX .16

led  
 power  
 angle°  
 cover plate

LED	POWER	ANGLE	COVER PLATE	COLOR
<b>D</b> 4000K <b>W</b> 2700K	<b>0</b> 3,2W - 230V <b>1</b> 6W - 230V <b>2</b> 9,5W - 230V	<b>1</b> 15° <b>3</b> 50°  <u>On request:</u> <b>2</b> lens 36°	<b>1</b> Round d.110mm <b>3</b> Round d.125mm <b>4</b> Square 110x110mm <b>6</b> Square 125x125mm <b>A</b> Round d.150mm <b>B</b> Square 150x150mm	<b>16</b> Brushed stainless steel 316L  <u>On request:</u> Anodized color Brushed brass

2200K / 3000K / 5000K = on request



# Zaxor Led-O



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws and spring in stainless steel  
Safety extra clear glass 10mm thickness  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated  
Max. 2140kg (21000 N)  
Degree of protection IP67 - IK10  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 5b ref: X055B  
IP68 connection - Connex 2 / 3 / 4 / 6  
Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Power supply 24VDC included / Lens 36°  
Other cover plate dimensions (customized) / Sandblasted glass  
Anodized colour or brushed brass cover plate  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



Dimmable power supply = on request



IP67

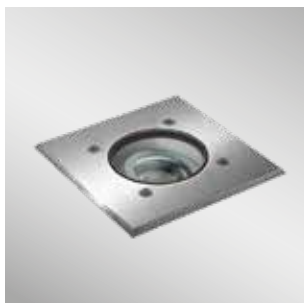
230V



IK10



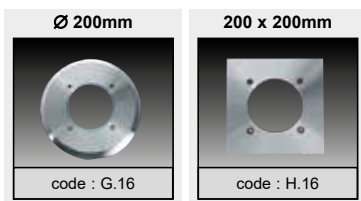
Zaxor led-O (220-240V)

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



  $\varnothing$  min: 150mm  
 min: 140mm

**230V**  
**12W**



code: 2417.271 2 X .16

led  
 angle°  
 cover plate

max.  
 efficacy  
 67lm/W

Typical luminous flux (lm)	
	12W
2700 K	800
3000 K	800

**LED**

**271** 12W 230V - 2700K

**ANGLE**

**2** 40°

**COVER PLATE**

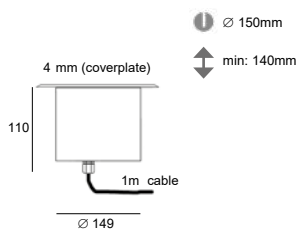
**G** Round d.200mm  
**H** Square 200x200mm

**COLOR**

**16** Brushed stainless steel 316L

3000K = on request

[On request:](#)  
 Anodized color



# Zaxor-HPL



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws in stainless steel  
Safety clear glass 10mm thickness  
Led module CRI>90 4SDCM 40.000hrs L70 B50  
Power supply 220-240V incorporated  
Max. 1000kg  
Degree of protection IP67 - IK09  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 6a/6b ref: X056A / X056B  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Sandblasted glass  
Other led color: 3000K  
Other cable length (customized)



IP67

230V

IK09



Zaxor HP led



EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed

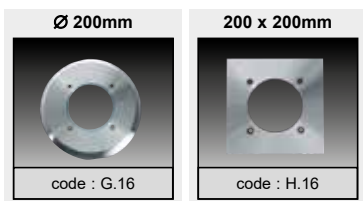


Ø min: 150mm  
 min: 180-220mm



# xxxmA & 230V

## 11W - 17W



code: 2437XXXX.16

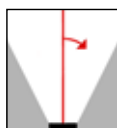


Without driver  
 - 350mA 11W  
 - 500mA 17W

code: 2438XXXX.16

Driver 220-240V incorporated

led  
 angle°  
 cover plate



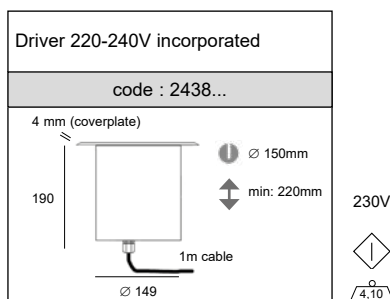
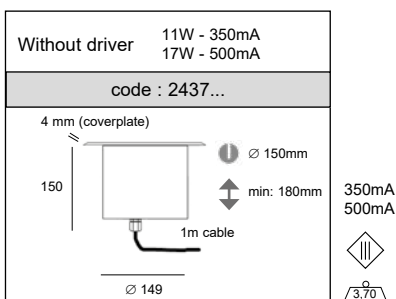
ADJUSTABLE  
 360° - 30°

max.  
 efficacy  
 142lm/W

	Typical luminous flux (lm)		
	6W	11W	17W
2700 K	725	1350	2090
3000 K	760	1400	2180
4000 K	805	1480	2310
5000 K	845	1540	2415

LED	ANGLE	COVER PLATE	COLOR
<b>D1</b> 11W - 4000K	<b>1</b> 15°	<b>G</b> Round d.200mm	<b>16</b> Brushed stainless steel 316L
<b>D2</b> 17W - 4000K°	<b>3</b> 50°	<b>H</b> Square 200x200mm	
<b>W1</b> 11W - 2700K	<a href="#">On request:</a>		<a href="#">On request:</a>
<b>W2</b> 17W - 2700K	<b>2</b> lens 36°		<a href="#">Anodized color</a>

2200K / 3000K / 5000K = on request



# Bolas O-HPL

## Led uplighting



### DESCRIPTION

Body made in profile anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Safety clear glass 10mm thickness  
Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
Power supply 220-240V incorporated (only code 2438)  
Degree of protection IP67 - IK09  
Max. 1000kg  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 6a/6b ref: X056A / X056B  
Led driver 350mA or 500mA CC (only code 2437)  
Led driver 24VDC/350mA or 500mA (only code 2437)  
IP68 connection - Connex 2 / 3 / 4  
Anti-glare honeycomb - Louver ref: X060.050.3

### ON REQUEST

Power supply 24VDC included / Lens 36°  
Other cover plate dimensions (customized) / Sandblasted glass  
Anodized color cover plate  
Other led color: 2200K / 3000K / 5000K  
Other cable length (customized)



IP67

IK09





Bolas O-HPL

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed



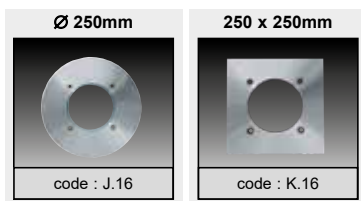
Dimmable power supply = on request



  $\varnothing$  min: 200mm  
 min: 170mm



**230V**  
**12W**



code: 2427.271 2 X .16

led  
 angle°  
 cover plate

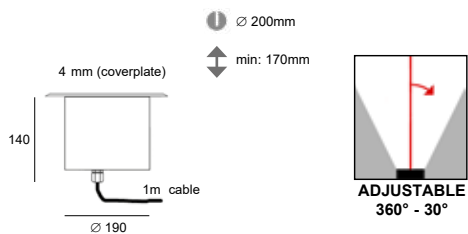
max. efficacy  
67lm/W

Typical luminous flux (lm)	
	12W
2700 K	800
3000 K	800

LED	ANGLE	COVER PLATE	COLOR
271 12W 230V - 2700K	2 40°	J Round d.250mm K Square 250x250mm	16 Brushed stainless steel 316L

3000K = on request

On request:  
Anodized color



# Zaxor O-HPL



## Led uplighting

### DESCRIPTION

Body made in solid anodized aluminum  
Cover plate 4mm in stainless steel 316L  
Screws in stainless steel  
Safety clear glass 12mm thickness  
Led module CRI>90 4SDCM 40.000hrs L70 B50  
Power supply 220-240V incorporated  
Max. 1500kg  
Degree of protection IP67 - IK09  
Provided with 1m cable

### ACCESSORIES

Recessed box - Pop 7 ref: X057  
IP68 connection - Connex 2 / 3 / 4 / 6

### ON REQUEST

Other cover plate dimensions (customized)  
Anodized color cover plate  
Sandblasted glass  
Other led color: 3000K  
Other cable length (customized)



IP67

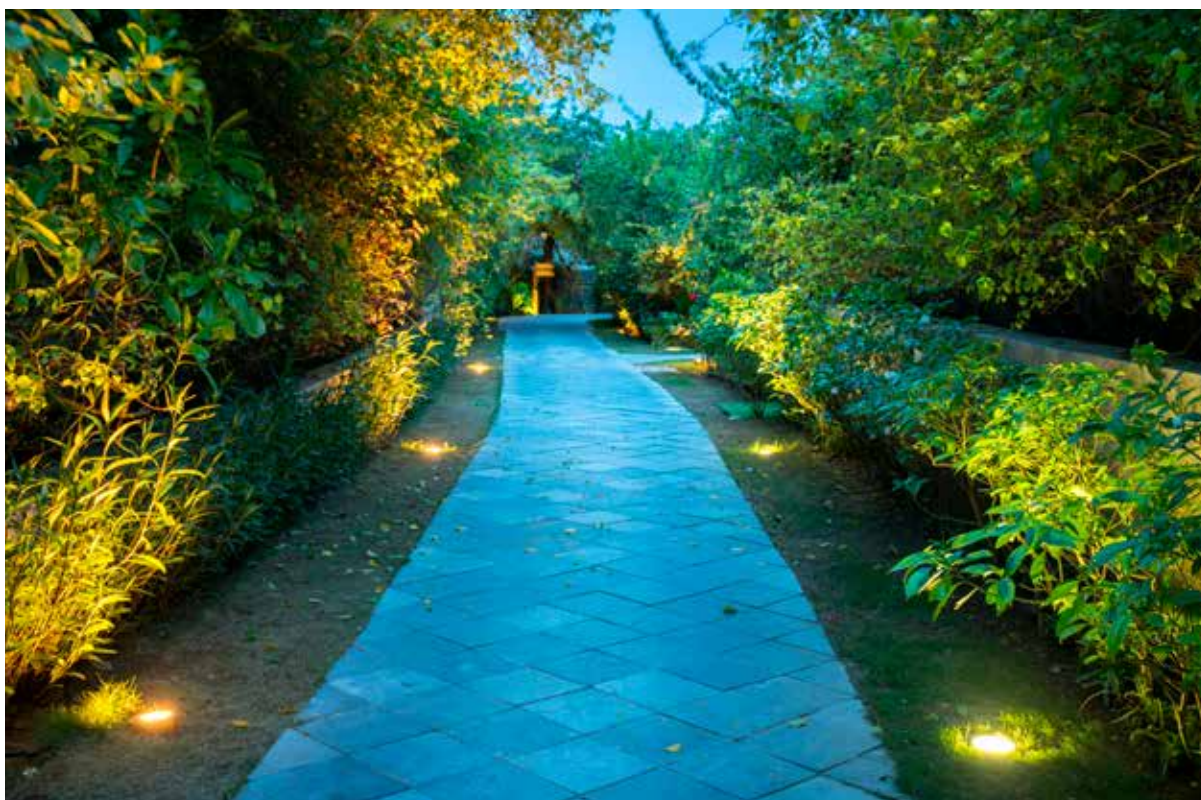
230V

IK09



Zaxor O-HP led

EXTERIOR LIGHTING  
FLOOR UPLIGHTING - Recessed





completely in  
stainless steel 316L

UNDERWATER LIGHTING

∅ : 79mm  
 min: 110mm

# 200-500mA

## 1,7W - 4,5W



Nautic S

### DESCRIPTION

Box & luminaire made completely in solid stainless steel 316L electropolish  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety clear or sandblasted glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 2m  
 Provided with 10m cable + 3m plastic spiral

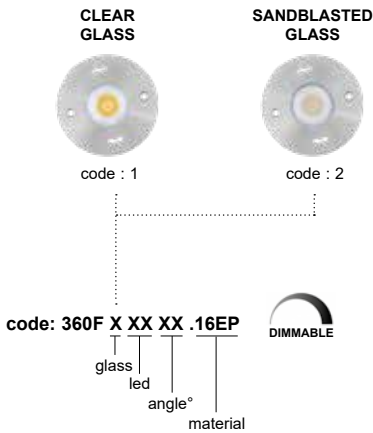
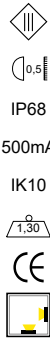


### ACCESSORIES

Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-24VDC/200mA to 500mA)  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other led color: 2200K / 5000K  
 Other beam angle: 10°  
 Other cable length (customized)



**1,7W to 4,5W**

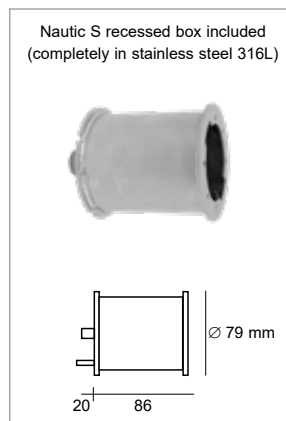
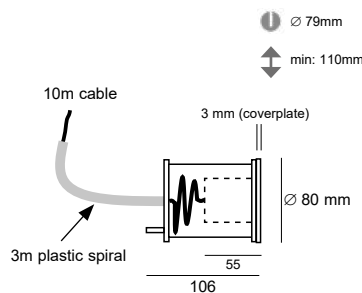
Without driver (200 → 500mA)

max. efficacy 128lm/W

	Typical luminous flux (lm)		
	200mA 1,7W	350mA 3,2W	500mA 4,5W
2700 K	200	355	480
3000 K	215	370	510
4000 K	230	395	535
5000 K	235	410	560
voltage DC	8,5V	9V	9V

GLASS	LED	ANGLE	MATERIAL
1 Clear glass	27 2700K	40 40°	16EP Stainless steel 316L + Electropolishing
2 Sandblasted glass	30 3000K		
	40 4000K		

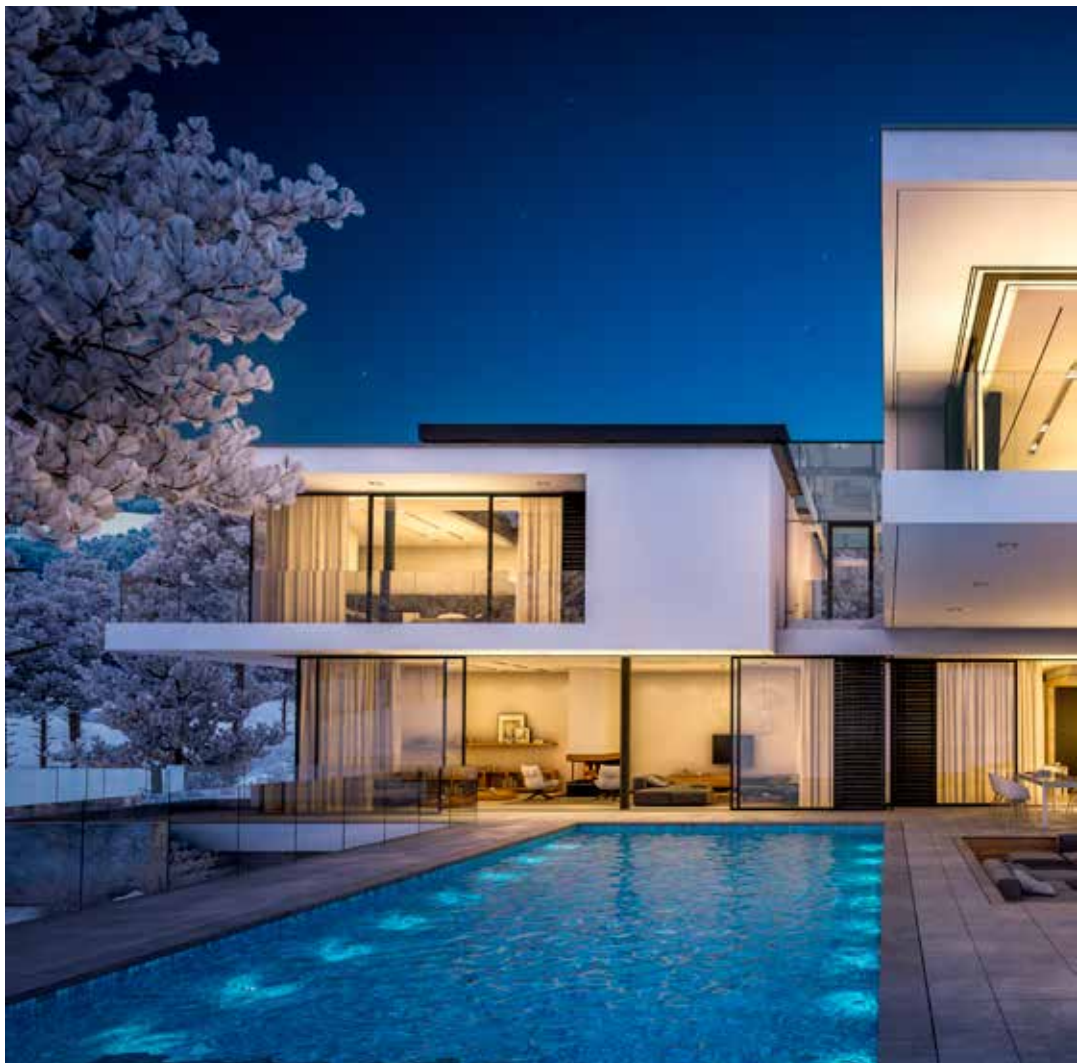
2200K / 5000K = on request  
 10° = on request





# Nautic S

Underwater Led light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING



∅ : 99mm  
 min: 110mm

# 200-700mA

## 3,4W - 13W



Nautic M



IP68

700mA

IK10



### DESCRIPTION

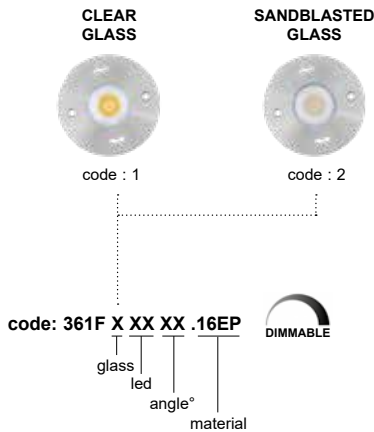
Box & luminaire made completely in solid stainless steel 316L electropolish  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety clear or sandblasted glass  
 Led module COB CRI>80 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 2m  
 Provided with 10m cable + 3m plastic spiral

### ACCESSORIES

Led driver AC/CC from 200mA to 700mA  
 Led driver DC/CC (12-24VDC/200mA to 700mA)  
 Anti-glare honeycomb - Louver ref: X060.043.3  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Other led color: 2200K / 5000K  
 Other beam angle: 15° / 36°  
 Other cable length (customized)



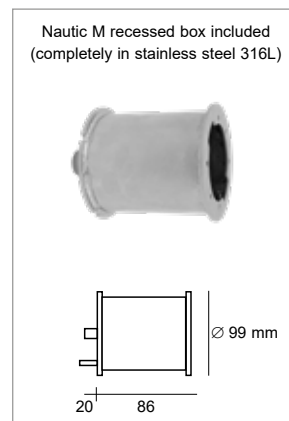
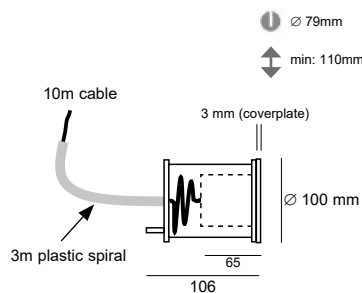
max. efficacy 141lm/W

**3,4W to 13W**  
 Without driver (200 → 700mA)

	Typical luminous flux (lm)			
	200mA 3,4W	350mA 6W	500mA 9W	700mA 13W
2700 K	455	725	995	1350
3000 K	480	760	1035	1400
4000 K	500	805	1095	1500
5000 K	550	845	1150	1570
voltage DC	17V	17,2V	18V	18,6V

GLASS		LED		ANGLE	MATERIAL
1	Clear glass	27	2700K	50	16EP Stainless steel 316L + Electropolishing
2	Sandblasted glass	30	3000K		
		40	4000K		

2200K / 5000K = on request  
 15° / 36° = on request





# Nautic M

Underwater Led light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING



∅ min: 32mm  
 min: 85mm

# 200-500mA

## 1,7W - 4,5W



Zona F



0,5

IP68

500mA

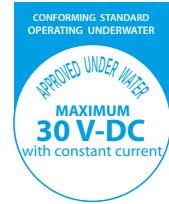
IK06

0,40



### DESCRIPTION

Made completely in solid stainless steel 316L  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety extra clear glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 2m  
 Provided with 3m cable

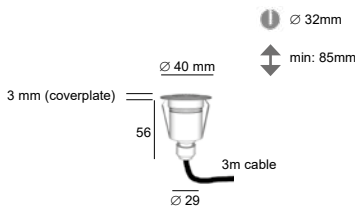


### ACCESSORIES


Recessed box - Pop 12 ref: X012  
 Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-24VDC/200mA to 500mA)  
 Anti-glare honeycomb - Louver ref: X060.021.3  
 Asymmetrical beam - visor HC ref: X061.022.2  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other beam angle: 50°  
 Other cover plate dimensions (customized)  
 Other cable length (customized)



Asymmetrical beam with Visor HC (half-circle)

code: 8022F. **XXX** . **XX**   
 led material

### 1,7W to 4,5W

Without driver (200 → 500mA)

max. efficacy 128lm/W

### LED

**D31** 4000K - 35°  
**W31** 2700K - 35°

2200K / 3000K / 5000K = on request  
 50° = on request

### MATERIAL

**16** Stainless steel 316L  
**16EP** Stainless steel 316L + Electropolishing

	Typical luminous flux (lm)		
	200mA 1,7W	350mA 3,2W	500mA 4,5W
2700 K	200	355	480
3000 K	215	370	510
4000 K	230	395	535
5000 K	235	410	560
voltage DC	8,5V	9V	9V



# Zona F Underwater Led light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING



Ø min: 45mm  
 min: 100mm



200-500mA  
 1,7W - 4,5W



Xeno F



IP68

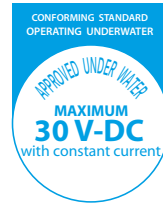
500mA

IK06



**DESCRIPTION**

Made completely in solid stainless steel 316L  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety extra clear glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 2m  
 Provided with 3m cable

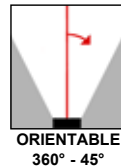
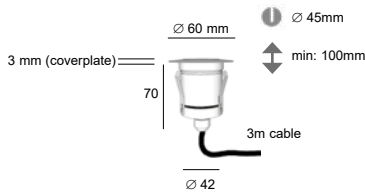


**ACCESSORIES**

Recessed box - Pop 1a/1b ref: X016A / X016B  
 Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-24VDC/200mA to 500mA)  
 IP68 connection - Connex 2 / 3 / 4

**ON REQUEST**

Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other beam angle: 50°  
 Other cover plate dimensions (customized)  
 Other cable length (customized)



code: 8024F. XXX . XX  
 led material



1,7W to 4,5W

Without driver (200 → 500mA)

max. efficacy  
 128lm/W

**LED**

D31 4000K - 35°  
 W31 2700K - 35°

2200K / 3000K / 5000K = on request  
 50° = on request

**MATERIAL**

16 Stainless steel 316L  
 16EP Stainless steel 316L + Electropolishing

	Typical luminous flux (lm)		
	200mA 1,7W	350mA 3,2W	500mA 4,5W
2700 K	200	355	480
3000 K	215	370	510
4000 K	230	395	535
5000 K	235	410	560
voltage DC	8,5V	9V	9V

Regarding Electropolishing treatment (16EP), please refer to the information pages of this catalog for explanations.

Xeno F   
Underwater Led light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING

∅ min: 32mm

min: 90mm

# 200-700mA

## 3,4W - 13W



Bolas F



0.5°

IP68

700mA

IK10

1.50



### DESCRIPTION

Made completely in solid stainless steel 316L  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety extra clear glass 10mm thickness  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 2m  
 Provided with 3m cable

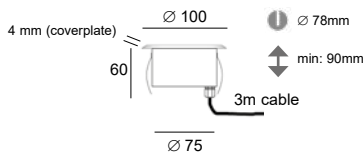


### ACCESSORIES


Recessed box - Pop 8b ref: X067B  
 Led driver AC/CC from 200mA to 700mA  
 Led driver DC/CC (12-24VDC/200mA to 700mA)  
 Anti-glare honeycomb - Louver ref: X060.043.3  
 Asymmetrical beam - visor HC ref: X061.050.2  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other beam angle: 15° / 36°  
 Other cover plate dimensions (customized)  
 Other cable length (customized)



Asymmetrical beam with Visor HC (half-circle)

code: 8028F. **XXX** R. **XX**   
 led material

### LED

**D03** 4000K - 50°  
**W03** 2700K - 50°

2200K / 3000K / 5000K = on request  
 15° / 36° = on request

### 3,4W to 13W

Without driver (200 → 700mA)

### MATERIAL

**16** Stainless steel 316L  
**16EP** Stainless steel 316L + Electropolishing

max. efficacy  
141lm/W

	Typical luminous flux (lm)			
	200mA 3,4W	350mA 6W	500mA 9W	700mA 13W
2700 K	455	725	995	1350
3000 K	480	760	1035	1400
4000 K	500	805	1095	1500
5000 K	550	845	1150	1570
voltage DC	17V	17,2V	18V	18,6V



# Bolas F Underwater Led light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING



# 200-500mA

## 1,7W - 4,5W



Kozi F



IP68

500mA

IK06



### DESCRIPTION

Made completely in solid stainless steel 316L  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety extra clear glass  
 Led module COB CRI>90 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 1m  
 Provided with 3m cable

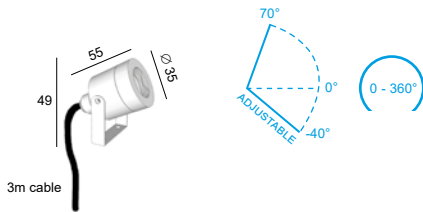


### ACCESSORIES

Led driver AC/CC from 200mA to 500mA  
 Led driver DC/CC (12-24VDC/200mA to 500mA)  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other beam angle: 50°  
 Other cable length (customized)



code: 8042F. **XXX** . **XX**  
 |  
 led  
 |  
 material

**1,7W to 4,5W**

Without driver (200 → 500mA)



### LED

**D31** 4000K - 35°  
**W31** 2700K - 35°

### MATERIAL

**16** Stainless steel 316L  
**16EP** Stainless steel 316L + Electropolishing

2200K / 3000K / 5000K = on request  
 50° = on request

	Typical luminous flux (lm)		
	200mA 1,7W	350mA 3,2W	500mA 4,5W
2700 K	200	355	480
3000 K	215	370	510
4000 K	230	395	535
5000 K	235	410	560
voltage DC	8,5V	9V	9V



# Kozi F



## Underwater Led flood light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING

# 200-700mA

## 3,4W - 13W



Saturn F



IP68

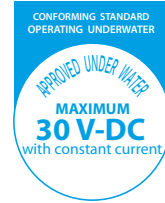
700mA

IK10



### DESCRIPTION

Made completely in solid stainless steel 316L  
 To use only in permanent immersion (underwater)  
 Operation up to a max. water temperature of 35°C  
 Safety extra clear glass 10mm thickness  
 Led module COB CRI>80 3SDCM 85.000hrs L80 B10  
 Degree of protection IP68, water depth up to 1m  
 Provided with 3m cable

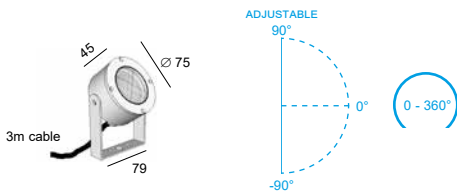


### ACCESSORIES

Led driver AC/CC from 200mA to 700mA  
 Led driver DC/CC (12-24VDC/200mA to 700mA)  
 Anti-glare honeycomb - Louver ref: X060.043.3  
 IP68 connection - Connex 2 / 3 / 4

### ON REQUEST

Sandblasted glass  
 Other led color: 2200K / 3000K / 5000K  
 Other beam angle: 15° / 36°  
 Other cable length (customized)



code: 8029F. **XXX** . **XX**  
 led material

### 3,4W to 13W

Without driver (200 → 700mA)



### LED

**D03** 4000K - 50°  
**W03** 2700K - 50°

### MATERIAL

**16** Stainless steel 316L  
**16EP** Stainless steel 316L + Electropolishing

	Typical luminous flux (lm)			
	200mA 3,4W	350mA 6W	500mA 9W	700mA 13W
2700 K	455	725	995	1350
3000 K	480	760	1035	1400
4000 K	500	805	1095	1500
5000 K	550	845	1150	1570
voltage DC	17V	17,2V	18V	18,6V

2200K / 3000K / 5000K = on request  
 15° / 36° = on request

Regarding Electropolishing treatment (16EP), please refer to the information pages of the general catalog for explanations.



# Saturn F



## Underwater Led flood light



EXTERIOR LIGHTING  
UNDERWATER LIGHTING





# ACCESSORIES

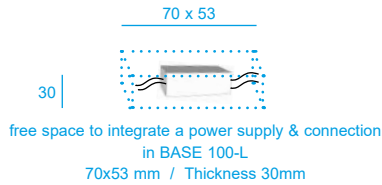
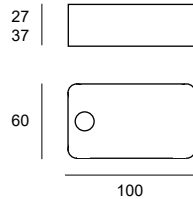
## Bases and mounting rods for LENA



IP40

Name	Dimension	Code	For product (name)
<b>Base 100-K</b>	100x60mm Thickness 27mm	<b>BASE.100K._ _</b>	Stem C
<b>Base 100-L</b>	100x60mm Thickness 37mm	<b>BASE.100L._ _</b>	Lena Pro M - B Lena Pro S - B Lena GU - B

**With M14 - Can be used with Led power supply**  
 Led power supply CC 350mA or 500mA not included  
 Make your selection on the accessory pages



**Base 100-L**  
**Compatible power supply**  
 DC0350.006.65D0  
 DC0350.010.65D1  
 DC0500.010.65D0  
 DC0500.010.65D1



1 x LENA Pro S-B code: 7024B.30440.02A  
 1 x BASE 100-L code: BASE.100L.02A  
 1 x Power Supply code: .DC0350.006.65D0



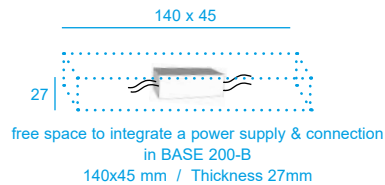
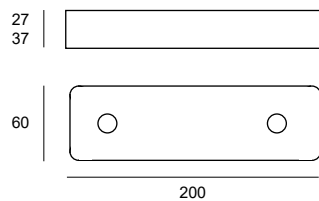
1 x LENA Pro M-B code: 7025B.30440.33  
 1 x BASE 100-L code: BASE.100L.33  
 1 x Power Supply code: .DC0500.010.65D0



IP40

Name	Dimension	Code	For product (name)
<b>Base 200-A</b>	200x60mm Thickness 27mm	<b>BASE.200A._ _</b>	Stem C
<b>Base 200-B</b>	200x60mm Thickness 37mm	<b>BASE.200B._ _</b>	Lena Pro M - B Lena Pro S - B Lena GU - B

**With M14 - Can be used with Led power supply**  
 Led power supply CC 350mA or 500mA not included  
 Make your selection on the accessory pages



**Base 200-B**  
**Compatible power supply**  
 DC0350.010.65D1



2 x LENA Pro S-B code: 7024B.30440.02A  
 1 x BASE 200-B code: BASE.200B.02A  
 1 x Power Supply code: DC0350.010.65D1



2 x LENA GU-B code: 7026B.GU.02A  
 1 x BASE 200-A code: BASE.200A.02A

# Led flood light



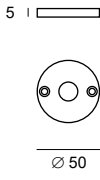
## Accessories for LENA


### Bases and mounting rods for LENA



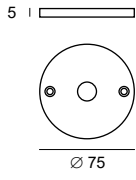
Name	Dimension	Code	Color	For product (name)
<b>Base 50-A</b>	Ø 50 mm Thickness 5mm	<b>BASE.050A._ _</b>	<b>02A</b> Anodized black <b>32D</b> Anodized aluminum	Stem C Lena Pro M - B
<b>Base 75-A</b>	Ø 75 mm Thickness 5mm	<b>BASE.075A._ _</b>	<b>33</b> Anodized bronze	Lena Pro S - B Lena GU - B

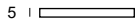
With M14



5 | 

Ø 50



5 | 

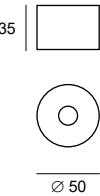
Ø 75


1 x LENA Pro M-B code: 7025B.30940.02A  
1 x BASE 75-A code: BASE.075A.02A



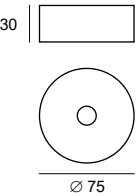
Name	Dimension	Code	Color	For product (name)
<b>Base 50-B</b>	Ø 50 mm Thickness 35mm	<b>BASE.050B._ _</b>	<b>02A</b> Anodized black <b>32D</b> Anodized aluminum	Stem C Lena Pro M - B
<b>Base 75-B</b>	Ø 75 mm Thickness 30mm	<b>BASE.075B._ _</b>	<b>33</b> Anodized bronze	Lena Pro S - B Lena GU - B

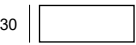
With M14



35 | 

Ø 50



30 | 

Ø 75

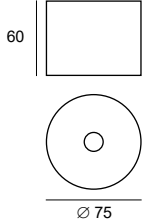
1 x LENA Pro S-B code: 7024B.30440.33  
1 x BASE 50-B code: BASE.050B.33




Name	Dimension	Code	Color	For product (name)
<b>Base 75-C</b>	Ø 75 mm Thickness 60mm	<b>BASE.075C._ _</b>	<b>02A</b> Anodized black <b>32D</b> Anodized aluminum <b>33</b> Anodized bronze	Stem C Lena Pro M - B Lena Pro S - B

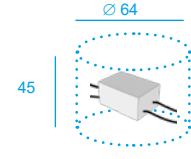
With M14 - To use with Led power supply

Led power supply CC 350mA or 500mA not included  
Make your selection on the accessory pages



60 | 

Ø 75



Ø 64  
45

free space to integrate a power supply & connection  
Ø 64 mm / Thickness 45mm

**Compatible power supply**

- DC0350.006.65D0
- DC0350.010.65D1
- DC0350.012.65D0
- DC0500.010.65D0
- DC0500.010.65D1



## Bases and mounting rods for LENA



Name	Dimension	Code	For product (name)
<b>Base 100-B</b>	Ø 100 mm Thickness 35mm	<b>BASE.100B._ _</b>	Stem C Lena Pro M - B Lena Pro S - B Lena GU - B
With M14		<b>02A</b> Anodized black <b>32D</b> Anodized aluminum <b>33</b> Anodized bronze	
		2 x LENA GU-B code: 7026B.GU.33 1 x BASE 100-B code: BASE.100B.33	



Name	Dimension	Code	For product (name)
<b>Base 100-C</b>	Ø 100 mm Thickness 45mm	<b>BASE.100C._ _</b>	Stem C Lena Pro M - B Lena Pro S - B Lena GU - B
With M14 - Can be used with Led power supply		<b>02A</b> Anodized black <b>32D</b> Anodized aluminum <b>33</b> Anodized bronze	
Led power supply CC 350mA or 500mA not included Make your selection on the accessory pages		<p>free space to integrate a power supply &amp; connection ~70x50 mm / Thickness 28mm</p>	<b>Compatible power supply</b> DC0350.010.65D1 DC0350.012.65D0 DC0500.010.65D0 DC0500.010.65D1
		2 x LENA Pro S-B code: 7024B.30440.02A 1 x BASE 100-C code: BASE.100C.02A 1 x Power Supply code: DC0350.010.65D1	



Name	Dimension	Code	For product (name)
<b>Base 100-D</b>	Ø 100 mm Thickness 150mm	<b>BASE.100D._ _</b>	Stem C Lena Pro M - B Lena Pro S - B Lena GU - B
With M14 - Can be used with Led power supply		<b>02A</b> Anodized black <b>32D</b> Anodized aluminum <b>33</b> Anodized bronze	
Led power supply CC 350mA or 500mA not included Make your selection on the accessory pages		<p>free space to integrate a power supply &amp; connection Ø 88 mm / Thickness 125mm</p>	<b>Compatible power supply</b> DC0350.010.65D1 DC0350.012.65D0 DC0500.010.65D0 DC0500.010.65D1 ... and many other
		2 x LENA GU-B code: 7026B.GU.02A 1 x STEM C code: TI20.050.M1.02A 1 x STEM C code: TI20.020.M1.02A 1 x BASE 100-D code: BASE.100D.02A	

# Led flood light



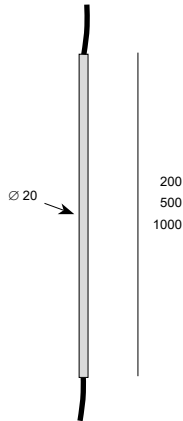
## Accessories for LENA

### Bases and mounting rods for LENA



Name	Dimension	Code	Color	For product (name)
<b>Stem C</b>	Ø 20 mm Height 200mm	<b>TI20.020.M1._ _</b>	<b>02A</b> Anodized black	Lena Pro M - B
	Height 500mm	<b>TI20.050.M1._ _</b>	<b>32D</b> Anodized aluminum	Lena Pro S - B
	Height 1000mm	<b>TI20.100.M1._ _</b>	<b>33</b> Anodized bronze	Lena GU - B

With M14 for fixing on a Base

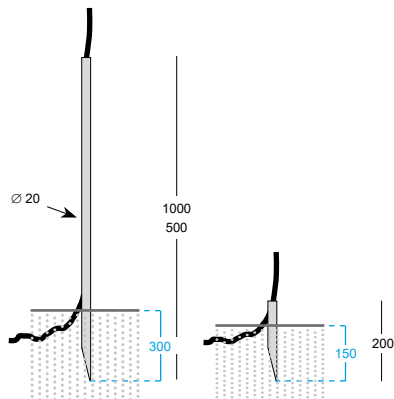


- 1 x LENA Pro M-B code: 7025B.30940.02A
- 1 x STEM C code: TI20.050.M1.02A
- 1 x BASE 75-B code: BASE.075B.02A



Name	Dimension	Code	Color	For product (name)
<b>Stem D</b>	Ø 20 mm Height 200mm	<b>TI20.020.SK._ _</b>	<b>02A</b> Anodized black	Lena Pro M - B
	Height 500mm	<b>TI20.050.SK._ _</b>	<b>32D</b> Anodized aluminum	Lena Pro S - B
	Height 1000mm	<b>TI20.100.SK._ _</b>	<b>33</b> Anodized bronze	Lena GU - B

With Spike for ground fixing



- 1 x LENA Pro S-B code: 7024B.30440.02A
- 1 x STEM D code: TI20.050.SK.02A



Name	Dimension	Code	Color	For product (name)
<b>Pic 4</b>	50x38mm Height 145mm	<b>804.04.02A</b>	<b>02A</b> Anodized black	Lena Pro M - A Lena Pro S - A Lena GU - A

Spike for ground fixing



## Bases and mounting rods for various flood lights



Name	Dimension	Code	Color	For product (name)
<b>Base 60-A</b>	Ø 60mm Thickness 5mm	<b>BASE.060A._ _</b>	<b>02A</b> Anodized black	Stem A
<b>Base 100-A</b>	Ø 100mm Thickness 5mm	<b>BASE.100A._ _</b>	<b>04</b> Brushed stainless steel	Cylinder S
<b>With M10</b>			<b>07</b> Brushed brass	Saturn Led - HP Led
			<b>21</b> Brushed copper	
			<b>32</b> Anodized aluminum	

5	5
Ø 60	Ø 100

1 x MAXIMA-65	code: 7002.W22.07
1 x STEM A	code: Tl.010.M10A.07
1 x BASE 060A	code: BASE.060A.02A



Name	Dimension	Code	Color	For product (name)
<b>Base 60-B</b>	Ø 60mm Thickness 40mm	<b>BASE.060B._ _</b>	<b>02A</b> Anodized black	Stem A
<b>With M10</b>			<b>04</b> Brushed stainless steel	Cylinder S
<b>Cable gland included</b>			<b>07</b> Brushed brass	Kozi S
			<b>21</b> Brushed copper	Saturn Led - HP Led
			<b>32</b> Anodized aluminum	

40
Ø 60

1 x KOZI-S	code: 8042.W32.04
1 x BASE 060B	code: BASE.060B.04



Name	Dimension	Code	Color	For product (name)
<b>Base Strap</b>	Ø 40mm Thickness 15mm	<b>AC.FX01.02A</b>	<b>02A</b> Anodized black	Stem A
<b>With M10</b>				Cylinder S
				Saturn Led - HP Led
				Salsa

15      17	<ul style="list-style-type: none"> <li>- Strap not included</li> <li>- Sangle non incluse</li> <li>- Strap niet inbegrepen</li> <li>- Gurt nicht im Lieferumfang enthalten</li> </ul>
Ø 40	

# Led flood light



## Accessories

### Bases and mounting rods for various flood lights



Name	Dimension	Code	Color	For product (name)
<b>Stem A</b>	Ø 10mm Height 100mm	<b>TI.010.M10A._ _</b>	<b>02A</b> Anodized black	Cylinder S
	Height 200mm	<b>TI.020.M10A._ _</b>	<b>04</b> Brushed stainless steel	Kozi S
	Height 500mm	<b>TI.050.M10A._ _</b>	<b>07</b> Brushed brass	Maxima 50-65-100-GU
	Height 1000mm	<b>TI.100.M10A._ _</b>	<b>21</b> Brushed copper	Saturn Led - HP Led
			<b>32</b> Anodized aluminum	Zax-S 10°

With M10 for fixing on a Base



1 x MAXIMA-50 code: 7004.W27.04  
 1 x STEM A code: TI.010.M10A.04  
 1 x BASE 060A code: BASE.060A.04



Name	Dimension	Code	Color	For product (name)
<b>Stem B</b>	Ø 10 mm Height 100mm	<b>TI.010.SPK._ _</b>	<b>02A</b> Anodized black	Cylinder S
	Height 200mm	<b>TI.020.SPK._ _</b>	<b>04</b> Brushed stainless steel	Kozi S
	Height 500mm	<b>TI.050.SPK._ _</b>	<b>07</b> Brushed brass	Maxima 50-65-100-GU
	Height 1000mm	<b>TI.100.SPK._ _</b>	<b>21</b> Brushed copper	Salsa
			<b>32</b> Anodized aluminum	Saturn Led - HP Led
				Zax-S 10°

With Spike for ground fixing

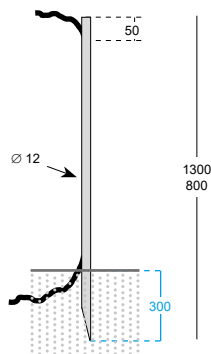


1 x KOZI-S code: 8042.W32.21  
 1 x STEM B code: TI.050.SPK.21



Name	Dimension	Code	Color	For product (name)
<b>Stem E</b>	Ø 12 mm Height 800mm	<b>TI12.080.Z._ _</b>	<b>02A</b> Anodized black	Cylinder S
	Height 1300mm	<b>TI12.130.Z._ _</b>	<b>04</b> Brushed stainless steel	Kozi S
			<b>07</b> Brushed brass	Maxima 50-65-100-GU
			<b>32</b> Anodized aluminum	Salsa
				Saturn Led - HP Led
				Zax-S 10°

With Spike for ground fixing

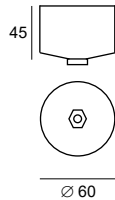


1 x MAXIMA-50 code: 7004.W27.02A  
 1 x STEM E code: TI12.130.Z.02A

## Bases and others accessories for various flood lights



Name	Dimension	Code	Color	For product (name)
<b>Salsa base</b>	Ø 60 mm Thickness 45mm	<b>AC.8091._ _</b>	<b>02A</b> anodized black <b>07</b> Brushed brass	Salsa

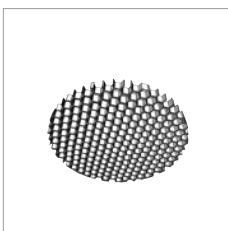


1 x SALSA code: 8091.W3.07  
1 x SALSA BASE code: AC.8091.07



Name	Dimension	Code	Color	For product (name)
<b>Anti-glare 01</b>	Ø 40 mm Height 50mm	<b>AC.8042.AG._ _</b>	<b>02A</b> Anodized black	Kozi S / Kozi FL
<b>Anti-glare 02</b>	Ø 65 mm Height 85mm	<b>AC.7001.AG._ _</b>	<b>04</b> Brushed stainless steel <b>07</b> Brushed brass	Cylinder S / Maxima GU
<b>Anti-glare 03</b>	Ø 70 mm Height 85mm	<b>AC.7002.AG._ _</b>	<b>21</b> Brushed copper	Maxima 65
<b>Anti-glare 06</b>	Ø 80 mm Height 100mm	<b>AC.8029.AG._ _</b>	<b>32</b> Anodized aluminum	Saturn
<b>Anti-glare 04</b>	Ø 110 mm Height 130mm	<b>AC.7003.AG._ _</b>	<i>please check the color availability in the price list</i>	Maxima 100

1 x SATURN LED code: 7006.W22.32  
1 x ANTIGLARE 06 code: AC.8029.AG.32



Name	Dimension	Code	Color	For product (name)
<b>Louver</b>	Ø 29 mm Thickness 3mm	<b>X060.029.3</b>	Anodized Black	Lena Pro S
	Ø 43 mm Thickness 3mm	<b>X060.043.3</b>		Maxima 65 / Saturn
	Ø 50 mm Thickness 3mm	<b>X060.050.3</b>		Cylinder S Lena Pro M Maxima GU / 100 (10W)
	Ø 68 mm Thickness 3mm	<b>X060.068.3</b>		Zax-S 10°
	Ø 82 mm Thickness 3mm	<b>X060.082.3</b>		Maxima 100 (20W)

*This accessory is to be installed in the luminaire upon initial order and factory assembly.*

1 x MAXIMA-100 code: 7003.W22.02A  
1 x LOUVER code: X060.082.3

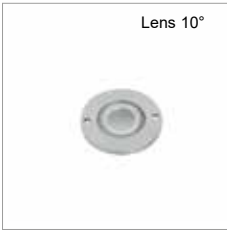


# Led lighting



## Accessories

### Accessories for wall lighting



Lens 10°

Name	Dimension	Code	Color	For product (name)
<b>Lens 01</b>	Ø 46 mm Thickness 16mm	<b>AC.8041.32</b>	<b>32</b> Anodized aluminum	Koba Maxima-50 Micro TR Okio

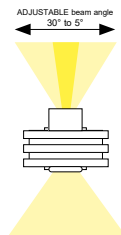
Made of anodised aluminum

*This accessory is to be installed in the luminaire upon initial order and factory assembly.*



Name	Dimension	Code	Color	For product (name)
<b>Lens 02</b>	Ø 65 mm Height 59mm	<b>AC.7012.1._ _</b>	<b>02A</b> Anodized black <b>32</b> Anodized aluminum	Wally XL

Made of anodised aluminum

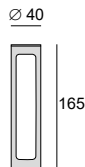


1 x WALLY XL code: 7012.W22.32  
1 x LENS 02 code: AC.7012.1.32



Name	Dimension	Code	Color	For product (name)
<b>Coversab 2</b>	Ø 40 mm Height 165mm	<b>384.AC1._ _</b>	<b>02A</b> Anodized black <b>32</b> Anodized aluminum <b>33</b> Anodized bronze <b>34</b> Anodized matt gold <b>35</b> Anodized green <b>36</b> Anodized burgundy	LightSaber D

Made of anodised aluminum



1 x LIGHTSABER D code: 384.272.36  
1 x COVERSAB 2 code: 384.AC1.36



## Accessories for various garden bollards



Name	Dimension	Code	Color	For product (name)
<b>DET Dim-M</b>	Ø 50 mm Height 17mm	<b>DET.D1</b>		...Ask us if you have a project
<b>DET Dim-S</b>		<b>DET.D2</b>		
<b>DET On-Off</b>		<b>DET.D3</b>		

This accessory is to be installed in the luminaire upon initial order and factory assembly.

Kit with detector

DET Dim-M = Presence detector MASTER (with function orientation lighting of 10%)

DET Dim-S = Presence detector SLAVE

DET On-Off = Motion detector On/Off



example with SAMPA PRO



Name	Dimension	Code	Color	For product (name)
<b>IR Dim</b>		<b>DET.IR.D1</b>		Sampa PRO ULYSS PRO
<b>IR On-Off</b>		<b>DET.IR.D3</b>		DET Dim DET On-Off

# Led garden light



## Accessories

### Accessories for various garden bollards



Name	Dimension	Code	Color	For product (name)
<b>CoverSab 1</b>	Ø 40 mm Height 23mm	<b>383.AC1.__</b>	<b>02A</b> Anodized black <b>33</b> Anodized bronze	LightSaber ( <i>only 3,2W model</i> )

Made of anodized aluminum

Ø 40

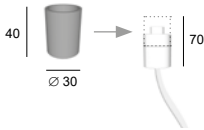


1 x LIGHTSABER code: 383.1272.02A  
1 x COVERSAB 1 code: 383.AC1.02A



Name	Dimension	Code	Color	For product (name)
<b>SamiFlex AG</b>	Ø 40 mm Height 30mm	<b>7021.AC01.02A</b>	Anodized Black	Sami-Flex
<b>Sami AG</b>	Ø 40 mm Height 30mm	<b>8031.AC01.21</b>	Brushed copper	Sami

Anti-glare ring made of anodized aluminum or brushed brass.



1 x SAMI-FLEX code: 7021.1W32.02A  
1 x SAMIFLEX AG code: 7021.AC01.02A



Name	Dimension	Code	Color	For product (name)
<b>Cover 180</b>	Ø 80 mm Height 100mm	<b>969.AC01.02A</b>	Anodized Black	Ulyss PRO

Made of anodized aluminum

180° half circle asymmetric beam cover

**This accessory is to be installed in the luminaire upon initial order and factory assembly.**

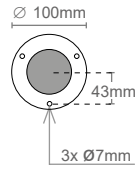
1 x ULYSS PRO code: 969P1.301.02  
1 x COVER 180 code: 969.AC01.02A



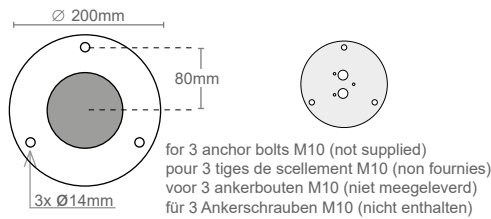
## Bases and mounting brackets for various garden bollards



Name	Dimension	Code	Color	For product (name)
<b>EasyFix</b>	Ø 100mm Thickness 5mm	<b>X100A._._</b>	<b>02A</b> Anodized black <b>04</b> Brushed stainless steel <b>07</b> Brushed brass <b>21</b> Brushed copper <b>32</b> Anodized aluminum <b>33</b> Anodized bronze	Disk Sarm FL Pic 1



Name	Dimension	Code	Color	For product (name)
<b>Stic</b>	Ø 200mm Thickness 5mm	<b>X004._._</b>	<b>02</b> Black <b>04</b> Brushed stainless steel <b>24</b> Corten <b>32</b> Anodized aluminum <b>39</b> Grey <b>48</b> Dark grey	Elyo FL Nomad 1 Sabri FL Spirit FL Sumo FL Ulyss FL

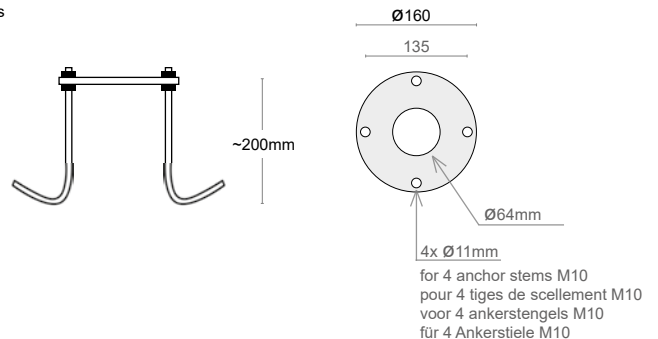


1 x ELYO FL code: 217.327.39  
1 x STIC code: X004.04



Name	Dimension	Code	Color	For product (name)
<b>Fix 04</b>	Ø 160mm Height 200mm	<b>AC.FX24.GZ</b>	Galvanised steel	Ulyss PRO

**Anchor kit with Included:**  
 - 1 x galvanized plate d. 160mm, thickness 5,5mm  
   - with 4 holes d.11mm for the passage of the 4 stems  
   - with 1 hole d.64mm for the passage of the cables sheaths  
 - 4 x stems with M10 with length of ~20cm (folded stems)  
 - 8 x bolts M10 in stainless steel  
 - 8 x stainless steel washers



# Garden lighting



## Accessories

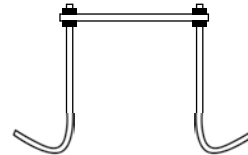
### Bases and mounting brackets for various garden bollards



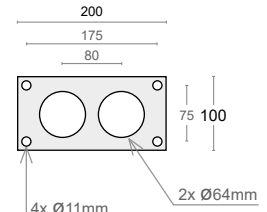
Name	Dimension	Code	Color	For product (name)
<b>Fix 01</b>	200x100mm Height 200mm	<b>AC.FX21.GZ</b>	Galvanised steel	Sampa PRO

Anchor kit with Included:

- 1 x galvanized plate 200x100mm, thickness 5,5mm
  - with 4 holes d.11mm for the passage of the 4 stems
  - with 2 holes d.64mm for the passage of the cables sheaths
- 4 x stems with M10 with length of ~20cm (folded stems)
- 8 x bolts M10 in stainless steel
- 8 x stainless steel washers



~200mm



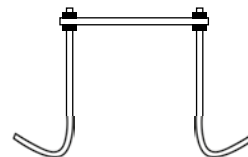
for 4 anchor stems M10  
pour 4 tiges de scellement M10  
voor 4 ankerstengels M10  
für 4 Ankerstiele M10



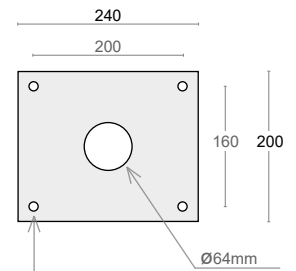
Name	Dimension	Code	Color	For product (name)
<b>Fix 02</b>	240x200mm Height 330mm	<b>AC.FX22.GZ</b>	Galvanised steel	Sampa L

Anchor kit with Included:

- 1 x galvanized plate 240x200mm, thickness 5,5mm
  - with 4 holes d.11mm for the passage of the 4 stems
  - with 1 hole d.64mm for the passage of the cables sheaths
- 4 x stems with M10 with length of ~35cm (folded stems)
- 8 x bolts M10 in stainless steel
- 8 x stainless steel washers



~330mm



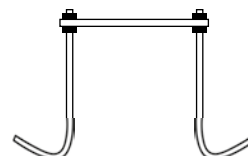
for 4 anchor stems M10  
pour 4 tiges de scellement M10  
voor 4 ankerstengels M10  
für 4 Ankerstiele M10



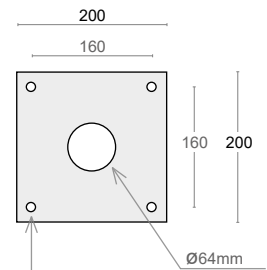
Name	Dimension	Code	Color	For product (name)
<b>Fix 03</b>	200x200mm Height 330mm	<b>AC.FX23.GZ</b>	Galvanised steel	Artist Torga L

Anchor kit with Included:

- 1 x galvanized plate 200x100mm, thickness 5,5mm
  - with 4 holes d.11mm for the passage of the 4 stems
  - with 1 hole d.64mm for the passage of the cables sheaths
- 4 x stems with M10 with length of ~35cm (folded stems)
- 8 x bolts M10 in stainless steel
- 8 x stainless steel washers



~330mm

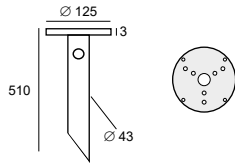


for 4 anchor stems M10  
pour 4 tiges de scellement M10  
voor 4 ankerstengels M10  
für 4 Ankerstiele M10

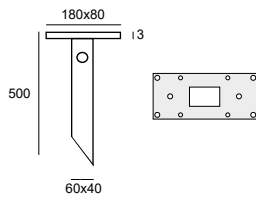
## Bases and mounting brackets for various luminaires



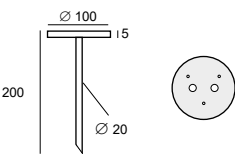
Name	Dimension	Code	Color	For product (name)
<b>Pic 1</b>	Ø 125mm Height 510mm	<b>802.00.02</b>	Galvanised steel	Atlantic FL Disk with Easyfix Goliath K - R Kozi FL Manix FL Max FL Nomad 1 Onyx FL Phantom Poeme FL Sabri FL Sarm FL with Easyfix Stoumpi Spirit FL - RFL - KFL Sumo FL - RFL Torga FL Ulyss FL Zebra FL
Made of galvanised steel				



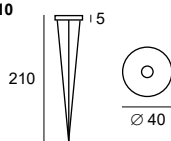
Name	Dimension	Code	Color	For product (name)
<b>Pic 2</b>	180x80mm Height 500mm	<b>803.00.02</b>	Galvanised steel	Big Seven Indy Sampa FL Seven Strato
Made of galvanised steel				



Name	Dimension	Code	Color	For product (name)
<b>Pic 3</b>	Ø 100 mm Height 200mm	<b>804.00.32</b>	Anodized aluminum	Alina Goliath K - R Saturn HP Led 230V
Made of anodized aluminum				



Name	Dimension	Code	Color	For product (name)
<b>Ecopic</b>	Ø 40 mm Height 210mm	<b>805.00.07</b>	07 Cast Brass	Salsa
With M10				



# Garden lighting



## Accessories

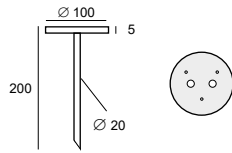
### Bases and mounting brackets for various luminaires



Name	Dimension	Code	Color	For product (name)
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<b>Pic 5</b>	Ø 100 mm Height 200mm	<b>804.05.02A</b>	Anodized aluminum	Focus Pharos VHX Sonar Target
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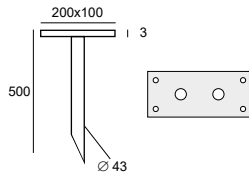
Made of anodized aluminum



Name	Dimension	Code	Color	For product (name)
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<b>Pic 6</b>	200x100 mm Height 500mm	<b>804.06.GZ</b>	Galvanised steel	Sampa PRO
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Made of galvanised steel



Name	Dimension	Code	Color	For product (name)
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<b>Gasket 1</b>	100x80 mm Thickness 2mm	<b>GK.100X080</b>	Black	Indy Seven Strato
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<b>Gasket 2</b>	100x100 mm Thickness 2mm	<b>GK.100X100</b>		Torga FL Phantom
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<b>Gasket 3</b>	180x80 mm Thickness 2mm	<b>GK.180X080</b>		Big Seven Sampa FL
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<b>Gasket 4</b>	200x100 mm Thickness 2mm	<b>GK.200X100</b>		Sampa PRO
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<b>Gasket 5</b>	200x200 mm Thickness 2mm	<b>GK.200X200</b>		Artist Torga L
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Made of EPDM

EPDM ant seal.

to prevent ants from establishing a nest in the luminaire when it is installed with an accessory to be stuck into the ground, as for example "Pic". This is to prevent, among other things, the cables from being damaged by ants.

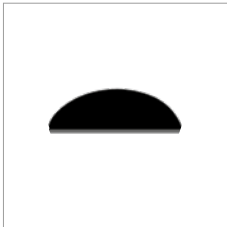


## Recessed boxes for wall lighting, uplighting & downlighting

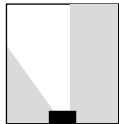


Name	Dimension	Code	Material	For product (name)
<b>Pop 13</b>	Ø 25 mm Length 60mm	<b>X013</b>	Plastic PVC tube	Tini
<b>Pop 12</b>	Ø 40 mm Length 100mm	<b>X012</b>		Faki / Poco / Tango Tekno / Zona
<b>Pop 3</b>	Ø 45 mm Length 55mm	<b>X053</b>		Genesis
<b>Pop 11</b>	a Ø 50 mm Length 100mm	<b>X015A</b>		iFi S / Paso / Xeno
	b Ø 50 mm Length 150mm	<b>X015B</b>		
<b>Pop 10</b>	a Ø 75 mm Length 120mm	<b>X054A</b>		ifi M / Banio / Circo / Perla Dark / Pharos VHX Zaxor Mini
	b Ø 75 mm Length 250mm	<b>X054B</b>		
<b>Pop 8</b>	a Ø 80 mm Length 80mm	<b>X067A</b>		Bolas VHX Bolas / ...Led / ...HPL / ...F
	b Ø 80 mm Length 160mm	<b>X067B</b>		
<b>Pop 5</b>	a Ø 106 mm Length 117mm	<b>X055A</b>		Zaxor Led / ...Led-O / ...10° Zaxor GZ / ...GZO
	b Ø 106 mm Length 250mm	<b>X055B</b>		
<b>Pop 6</b>	a Ø 160 mm Length 150mm	<b>X056A</b>		Zaxor HPL / Bolas O-HPL
	b Ø 160 mm Length 250mm	<b>X056B</b>		
<b>Pop 7</b>	Ø 200 mm Length 200mm	<b>X057</b>	Zaxor O-HPL	

## Accessories for recessed uplighting & downlighting

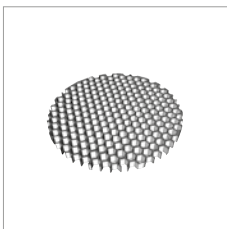


Name	Dimension	Code	Color	For product (name)
<b>Visor HC</b>	Ø 22 mm Thickness 2mm	<b>X061.022.2</b>	Black	Zona R (Dark) / .. S / .. F Zaxor Mini
	Ø 50 mm Thickness 2mm	<b>X061.050.2</b>		Bolas Led / ...HPL / ...F



Asymmetrical beam with Visor HC (half-circle)

This accessory is to be installed in the luminaire upon initial order and factory assembly.



Name	Dimension	Code	Color	For product (name)
<b>Louver</b>	Ø 21 mm Thickness 3mm	<b>X060.021.3</b>	Black	Zona R (Dark) / .. S / .. F Zaxor Mini
	Ø 29 mm Thickness 3mm	<b>X060.029.3</b>		Focus / Paso / iFi S
	Ø 43 mm Thickness 3mm	<b>X060.043.3</b>		Bolas / ...Led / ...HPL / ...F
	Ø 50 mm Thickness 3mm	<b>X060.050.3</b>		Banio / Beto / Circo / iFi M Bolas O-HPL / Perla Dark Soled / Zaxor Led-O
	Ø 68 mm Thickness 3mm	<b>X060.068.3</b>		Zaxor Led / Zaxor 10°

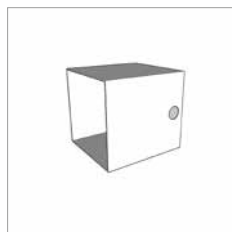
This accessory is to be installed in the luminaire upon initial order and factory assembly.

# Led recessed lighting



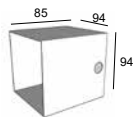
## Accessories

### Recessed boxes for wall lighting, uplighting & downlighting



Name	Dimension	Code	Color	For product (name)
<b>Krypto Box 2</b>	94x94 mm Thickness 85mm	<b>X064</b>	Galvanised steel	Krypto 2

Made of galvanised steel

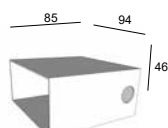


1 x KRYPTO 2 code: 1188.272B.02A  
1 x KRYPTO BOX 2 code: X064



Name	Dimension	Code	Color	For product (name)
<b>Krypto Box 3</b>	94x46 mm Thickness 85mm	<b>X065</b>	Galvanised steel	Krypto 3

Made of galvanised steel



1 x KRYPTO 3 code: 1189.272B.02A  
1 x KRYPTO BOX 2 code: X065



Name	Dimension	Code	Color	For product (name)
<b>Standard Box 1</b>	72x72 mm Thickness 65mm	<b>SB.01</b>		Hydro Yorka

Made of plastic



Name	Dimension	Code	Color	For product (name)
<b>Standard Box 2</b>	Ø 70 mm Thickness 65mm	<b>SB.02</b>		Hydro Yorka

Made of plastic






Name	Dimension	Code	Color	For product (name)
<b>Standard Box 3</b>		<b>SB.03</b>		Beto

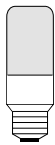
Made of plastic

## Junction box and connector IP68

			
NAME	Connex 2	Connex 3	Connex 4
CODE	<b>X082</b>	<b>X082.Y</b>	<b>X083</b>
Information	connection with 3 poles Rated voltage: 250V Rated current: 10 A  for cables Ø 5,8-12mm CE - IP68	3 lines connection Rated voltage: 250V Rated current: 10 A  for cables Ø 5,8-11mm CE - IP68	connection box  Fast repair of damaged cables  for cables Ø 1-13mm CE - Class II - IP68
Dimensions (mm)	Ø 23 mm L68mm	110x60x30mm	63x41x28mm

			
NAME	Connex 5	Connex 6	KitBox IP68
CODE	<b>X131</b>	<b>X132</b>	<b>X121</b>
Information	Equipped with cable glands Pre-filled with non-toxic gel Complete with connector 2 poles Minimal aesthetic impact  for cables Ø 6-10mm CE - IP68	Equipped with cable glands Pre-filled with non-toxic gel Complete with connector 3 poles Minimal aesthetic impact  for cables Ø 8-13mm CE - IP68	Junction box - with 8 entries & 3 cable glands M25 x 1,5 / caps - with Single bicomponent bottle - with 1 small basin - 1 mixing spoon  CE - Class II - IP68
Dimensions (mm)	75x28x19mm	80x36x23mm	100x100x50mm

## Led lamp E27

			
NAME	Led bulb E27		
CODE	<b>LED.E201.10830</b>		
Dimensions (mm)	LED lamp E27 Non-Dim 3000K - CRI >80 <b>9,5W</b> - 950 lumens 15.000h 220-240V 50/60Hz  diameter: 38mm Height: 115mm		

# For all products



On request

## Cables



Name	Extra cable 1 meter	Code	Color	For product (name):	
<b>Cable 01</b>	Type as RN8-F 2x 0,5mm <sup>2</sup>	<b>SUP.001</b>	Black	<b>Floodlight</b>	<b>Uplighting</b>
<b>For luminaire from 200mA to 700mA</b>					
Rubber PCP (polychloroprene) maximum 48V diameter 5,9mm					
This cable supplement must be ordered with the initial order as assembly must be carried out in the factory.					
				Kozi S-F Lena Pro Saturn F Saturn HP Led Zax-S 10°	Bolas HPL Bolas VHX Focus Genesis Nautic Perla Dark Pharos VHX Tango Target Xeno Zaxor Led Zaxor Led-O Zaxor Mini Zaxor 10° Zona



Name	Extra cable 1 meter	Code	Color	For product (name):	
<b>Cable 03</b>	Type H05RN-F 3x 1,0mm <sup>2</sup>	<b>SUP.003</b>	Black	<b>Floodlight</b>	<b>Uplighting</b>
<b>For luminaire 220-240V AC</b>					
Rubber PCP (polychloroprene) maximum 300V 50-60Hz diameter: 7,2mm					
This cable supplement must be ordered with the initial order as assembly must be carried out in the factory.					
				Cylinder S Lena GU Maxima 50-65-100-GU Nocturn Salsa Saturn Led	Bolas Bolas Led Bolas O-HPL Bolas VHX 230V Pharos VHX 230V Zaxor GZ Zaxor GZO Zaxor HPL Zaxor O-HPL Zaxor Led 230V Zaxor Led-O 230V Zaxor Mini 230V



Name	Extra cable 1 meter	Code	Color	For product (name):	
<b>Cable 05</b>	Type 2x 0,35mm <sup>2</sup>	<b>SUP.005</b>	Black	<b>Floodlight</b>	
<b>For luminaire from 200mA to 350mA</b>					
PVC insulation (to use with a protective sheath in the ground) maximum 48V diameter 3,6mm					
This cable supplement must be ordered with the initial order as assembly must be carried out in the factory.					
				Sami Sami-flex	



# Led Power Supply









- Protections: - Overload  
- Overvoltage  
- Overheating  
- Short circuit

Input: 220-240V

LED Power Supply AC/CC 200 to 300mA Constant Current

200-300mA

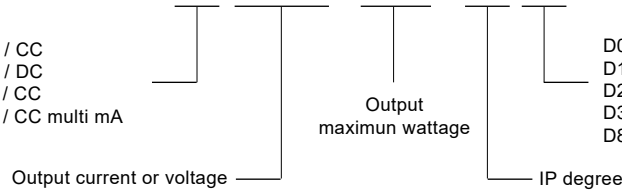
4W - 12W

					
LED DRIVER	200mA 4-8W	250mA 8-10W	300mA 9,6-12W		
CODE	<b>DC0200.008.20D0</b>	<b>DC0250.010.20D0</b>	<b>DC0300.012.20D0</b>		
	 CE $\Delta_{0,06}$ IP20	 CE $\Delta_{0,10}$ IP20	 CE $\Delta_{0,10}$ IP20		
Dimensions: L x W x H (mm)	88 x 39 x 23	89 x 39 x 23	89 x 39 x 23		
Input	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz		
Output	20-40V DC	32-40V DC	32-40V DC		
Power factor $\lambda$	0,50	> 0,55	> 0,55		
Efficiency % (full load)					
Operating temperature (Ta)	- 20° ... + 50° C	- 20° ... + 50° C	- 20° ... + 50° C		
Max. Case temperature (Tc)	75°C	75°C	75°C		
Dim	no	no	no		

\* D1 = Dimmable with leading-edge and trailing edge TRIAC dimmers

## Model Code : XX XXXX . XXX . XX XX

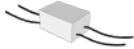
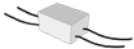
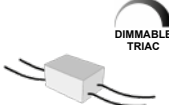

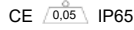
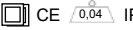


DC = Driver AC / CC  
 DD = Driver AC / DC  
 DL = Driver DC / CC  
 DP = Driver AC / CC multi mA

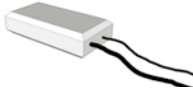

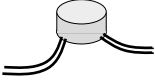
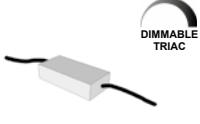
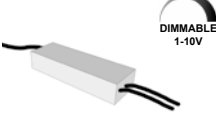
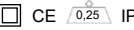






D0 = On / Off  
 D1 = Dimmable Triac  
 D2 = Dimmable 0-10V or 1-10V  
 D3 = Dimmable Dali 2  
 D8 = Dimmable PWM

## Input: 110-240V LED Power Supply AC/CC 350mA Constant Current

350mA  
 1W - 70W

				
LED DRIVER	350mA 1-3,5W	350mA 3-6W	350mA 5-10W	350mA 6-12W
CODE	<b>DC0350.003.65D0</b>	<b>DC0350.006.65D0</b>	<b>DC0350.010.65D1</b>	<b>DC0350.012.65D0</b>
	 CE $\Delta_{0.05}$ IP65	 CE $\Delta_{0.04}$ IP65	 CE $\Delta_{0.06}$ IP65	 CE $\Delta_{0.10}$ IP65
Dimensions: L x W x H (mm)	37 x 23 x 21	53 (38) x 27 x 21	58 (48) x 36 x 20	50 x 48 x 24
Input	110-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz
Output	2,5-10 VDC	9-17 VDC	15-29 VDC	17-34 VDC
Power factor $\lambda$	0,50	0,60	0,90	0,90
Efficiency % (full load)	> 68%	> 68%	> 78%	> 84%
Operating temperature (Ta)	- 20° ... + 50° C	- 20° ... + 60° C	- 20° ... + 60° C	- 20° ... + 50° C
Max. Case temperature (Tc)	75°C	85°C	85°C	80°C
Dim	no	no	Triac (100% ... 1%)*	no

					
LED DRIVER	350mA 1-17W	350mA 1-17W	350mA 15-25W	350mA 25-37W	350mA 35-70W
CODE	<b>DC0350.017.68D0</b>	<b>DC0350.017.68D3</b>	<b>DC0350.025.65D0</b>	<b>DC0350.037.42D1</b>	<b>DC0350.070.67D2</b>
	 CE $\Delta_{0.25}$ IP68	 CE $\Delta_{0.25}$ IP68	 CE $\Delta_{0.20}$ IP65	 CE $\Delta_{0.24}$ IP42	 CE $\Delta_{0.73}$ IP67
Dimensions: L x W x H (mm)	107 x 54 x 26	107 x 54 x 26	Ø 65 x 28	128 x 60 x 32	171 x 62 x 37
Input	220-240V 50-60Hz	220-240V 50-60Hz	110-240V 50-60Hz	220-240V 50-60Hz	110-240V 50-60Hz
Output	2-49 VDC	2-49 VDC	43-72V DC	70-108V DC	100-200V DC
Power factor $\lambda$	0,96	0,95	> 0,95	> 0,90	0,96
Efficiency % (full load)	> 87%	> 88%	> 86%	> 87%	> 91%
Operating temperature (Ta)	- 40° ... + 60° C	- 40° ... + 60° C	- 20° ... + 50° C	- 30° ... + 50° C	- 40° ... + 80° C
Max. Case temperature (Tc)	90°C	80°C	85°C	75°C	80°C
Dim	no	DALI 2 (100% ... 1%)	no	Triac (100% ... 1%)*	1-10V (100% ... 10%)

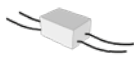
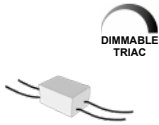
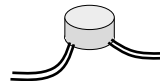



# Led Power Supply

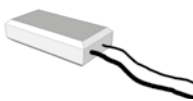

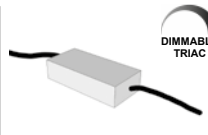
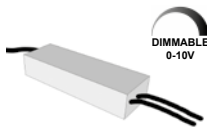






- Protections: - Overload  
- Overvoltage  
- Overheating  
- Short circuit

**Input: 110-240V**  
**LED Power Supply AC/CC 500mA Constant Current**

**500mA**  
**1W - 75W**

		 DIMMABLE TRIAC			
LED DRIVER	500mA 5-10W	500mA 5-10W	500mA 11-18W		
CODE	<b>DC0500.010.65D0</b>	<b>DC0500.010.65D1</b>	<b>DC0500.018.65D0</b>		
	 CE $\Delta_{0,06}$ IP65	 CE $\Delta_{0,06}$ IP65	 CE $\Delta_{0,20}$ IP65		
Dimensions: L x W x H (mm)	58 (48) x 36 x 20	58 (48) x 36 x 20	Ø 55 x 26		
Input	220-240V 50-60Hz	220-240V 50-60Hz	110-240V 50-60Hz		
Output	10-20V DC	10-20V DC	22-36V DC		
Power factor $\lambda$	0,90	0,90	> 0,94		
Efficiency % (full load)	> 76%	> 76%	> 86%		
Operating temperature (Ta)	- 20° ... + 60° C	- 20° ... + 60° C	- 20° ... + 50° C		
Max. Case temperature (Tc)	85°C	85°C	80°C		
Dim	no	Triac (100% ... 1%)*	no		

		 DALI 2	 DIMMABLE TRIAC	 DIMMABLE 0-10V		
LED DRIVER	500mA 1-24W	500mA 1-24W	500mA 35-54W	500mA 38-75W		
CODE	<b>DC0500.024.68D0</b>	<b>DC0500.024.68D3</b>	<b>DC0500.054.42D1</b>	<b>DC0500.075.67D2</b>		
	 CE $\Delta_{0,25}$ IP68	 CE $\Delta_{0,25}$ IP68	 CE $\Delta_{0,35}$ IP42	 CE $\Delta_{0,80}$ IP67		
Dimensions: L x W x H (mm)	107 x 54 x 26	107 x 54 x 26	128 x 60 x 32	180 x 63 x 36		
Input	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz		
Output	2-49V DC	2-49 VDC	70-108V DC	75-150V DC		
Power factor $\lambda$	0,97	0,95	0,90	0,95		
Efficiency % (full load)	> 88%	> 88%	> 87%	> 91%		
Operating temperature (Ta)	- 40° ... + 60° C	- 40° ... + 60° C	- 30° ... + 45° C	- 40° ... + 85° C		
Max. Case temperature (Tc)	90°C	80°C	75°C	85°C		
Dim	no	DALI 2 (100% ... 1%)	Triac (100% ... 1%)*	0-10V (100% ... 0%)		

ACCESSORIES

A

\* D1 = Dimmable with leading-edge and trailing edge TRIAC dimmers

## Model Code : XX XXXX . XXX . XX XX

DC = Driver AC / CC  
 DD = Driver AC / DC  
 DL = Driver DC / CC  
 DP = Driver AC / CC multi mA

Output current or voltage

Output maximum wattage

IP degree

D0 = On / Off  
 D1 = Dimmable Triac  
 D2 = Dimmable 0-10V or 1-10V  
 D3 = Dimmable Dali 2  
 D8 = Dimmable PWM

### Input: 220-240V

### LED Power Supply AC/CC 700mA Constant Current

### 700mA

### 1W - 75W

LED DRIVER	700mA 1-30W	700mA 1-30W	700mA 21-37W	700mA 35-60W	700mA 38-75W
CODE	DC0700.030.68D0	DC0700.030.68D3	DC0700.037.66D2	DC0700.060.42D1	DC0700.075.67D2
Dimensions: L x W x H (mm)	107 x 54 x 26	107 x 54 x 26	94 x 70 x 33	128 x 60 x 32	180 x 63 x 36
Input	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz
Output	2-49 VDC	2-49 VDC	30-54V DC	50-86V DC	53-107V DC
Power factor λ	0,97	0,95	0,90	0,90	0,95
Efficiency % (full load)	> 88%	> 88%	> 86%	> 86%	> 91%
Operating temperature (Ta)	- 40° ... + 55° C	- 40° ... + 60° C	- 40° ... + 50° C	- 30° ... + 45° C	- 40° ... + 85° C
Max. Case temperature (Tc)	90°C	80°C	75°C	75°C	85°C
Dim	no	DALI 2 (100% ... 1%)	1-10V (100% ... 10%)	Triac (100% ... 1%)*	0-10V (100% ... 0%)

### Input: 220-240V

### LED Power Supply AC/CC Constant Current with DALI dimming & selectable output current

### 300-1050mA

### 1W - 60W

LED DRIVER	selection with DIP switch 350mA 3-18W 500mA 3-25W 700mA 5-25W(default)	selection with DIP switch 350mA 1-35W 500mA 1-40W 700mA 1-40W(default)	selection with DIP switch 500mA 1-45W 700mA 1-60W(default)	Selectable by NFC setting 300mA 2,7-16,2W 350mA 3,15-18,9W 500mA 4,5-25W 700mA 6,3-25W(default)	Selectable by NFC setting 600mA 5,4-32,4W 700mA 6,3-37,8W 1050mA 9,5-40W(default)
CODE	DP0700.025.20D3	DP0700.040.20D3	DP0700.060.20D3	DP0700.025.67D3	DP1050.040.67D3
Dimensions: L x W x H (mm)	105 x 68 x 23	124 x 82 x 23	124 x 82 x 23	114 x 44 x 32	114 x 44 x 32
Input AC	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz
Output CC	350mA (6-54V DC) 500mA (6-50V DC) 700mA (6-36V DC)	350mA (2-100V DC) 500mA (2-80V DC) 700mA (2-57V DC)	500mA (2-90V DC) 700mA (2-86V DC)	350mA (9-54V DC) 500mA (9-50V DC) 700mA (9-36V DC)	600mA (9-54V DC) 700mA (9-54V DC) 1050mA (9-38V DC)
Power factor λ	0,94	0,97	0,97	0,97	0,97
Efficiency % (full load)	> 86%	> 91%	> 92%	> 88%	> 88%
Operating temperature (Ta)	- 30° ... + 85° C	- 30° ... + 90° C	- 30° ... + 90° C	- 25° ... + 90° C	- 25° ... + 90° C
Max. Case temperature (Tc)	85°C	90°C	90°C	90°C	90°C
Dim	DALI 2 (100% ..6%)	DALI 2 (100% ..6%)	DALI 2 (100% ..6%)	DALI 2 (100% ..0%)	DALI 2 (100% ..0%)



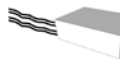
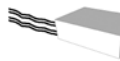
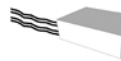










# Led Power Supply



- Protections: - Overload  
- Overvoltage  
- Overheating  
- Short circuit




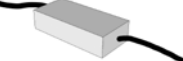








## Input: 12-36V DC LED Power Supply DC/CC Constant Current

350-700mA  
1W - 44W

					
LED DRIVER	350mA 1-11W Input 12V DC: 1- 4W 24V DC: 1- 8W 36V DC: 1- 11W	500mA 1-16W Input 12V DC: 1- 5W 24V DC: 1- 11W 36V DC: 1- 16W	350mA 8-44W Input 24V DC: 8- 44W	500mA 11-44W Input 24V DC: 11- 44W	700mA 15-44W Input 24V DC: 15- 44W
CODE	<b>DL0350.011.67D8</b>	<b>DL0500.016.67D8</b>	<b>DL0350.044.44D8</b>	<b>DL0500.044.44D8</b>	<b>DL0700.044.44D8</b>
	 CE  IP67	 CE  IP67	 CE  IP44	 CE  IP44	 CE  IP44
Dimensions: L x W x H (mm)	23 x 10 x 9	23 x 10 x 9	75 x 53 x 23	75 x 53 x 23	75 x 53 x 23
Input DC	12-36V DC	12-36V DC	24V DC	24V DC	24V DC
Output CC	350mA (2-32V DC)	500mA (2-32V DC)	350mA (21-126V DC)	500mA (21-86V DC)	700mA (21-64V DC)
Power factor λ					
Efficiency % (full load)	> 95%	> 95%	> 93%	> 86%	> 91%
Operating temperature (Ta)	- 40° ... + 85° C	- 40° ... + 85° C	- 40° ... + 70° C	- 40° ... + 70° C	- 40° ... + 70° C
Max. Case temperature (Tc)	85°C	85°C	70°C	70°C	70°C
Dim	PWM (100% ... 0%)	PWM (100% ... 0%)	PWM (100% ... 0%)	PWM (100% ... 0%)	PWM (100% ... 0%)

## Input: 110-240V LED Power Supply AC/DC 24V Constant Voltage

24V DC  
1W - 150W

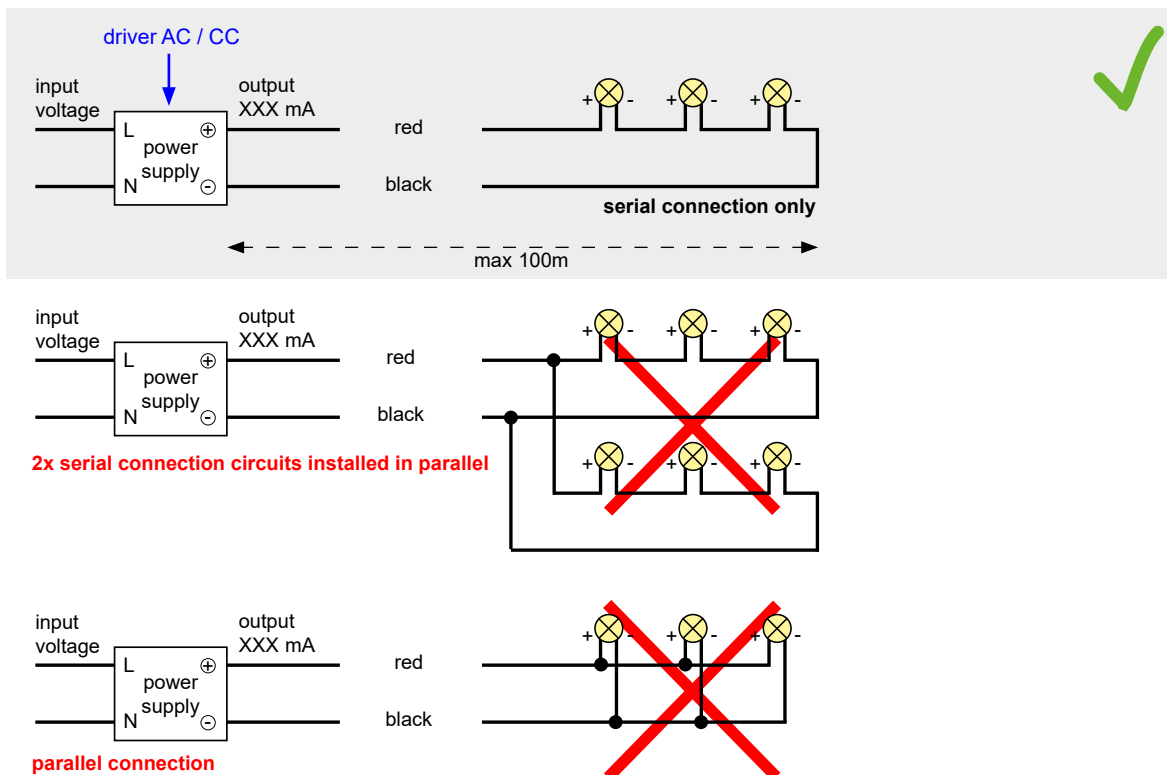
				
LED DRIVER	24V DC 1-24W	24V DC 1-60W	24V DC 1-100W	24V DC 1-150W
CODE	<b>DD24.024.67D0</b>	<b>DD24.060.67D0</b>	<b>DD24.100.67D0</b>	<b>DD24.150.67D0</b>
	 CE  IP67	 CE  IP67	 CE  IP67	 CE  IP67
Dimensions: L x W x H (mm)	118 x 35 x 26	163 x 43 x 32	190 x 52 x 37	191 x 63 x 38
Input AC	220-240V 50-60Hz	110-240V 50-60Hz	110-240V 50-60Hz	220-240V 50-60Hz
Output DC	24V DC / 0-1A	24V DC / 0-2,5A	24V DC / 0-4,2A	24V DC / 0-6,3A
Power factor λ	0,95			
Efficiency % (full load)	> 86%	> 86%	> 88%	> 89%
Operating temperature (Ta)	- 20° ... + 75° C	- 30° ... + 70° C	- 25° ... + 70° C	- 25° ... + 65° C
Max. Case temperature (Tc)	70°C	70°C	70°C	70°C
Dim	no	no	no	no

ACCESSORIES

A

\* D1 = Dimmable with leading-edge and trailing edge TRIAC dimmers

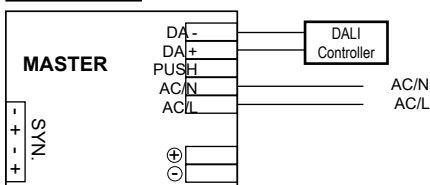
## Installation with a Constant Current power supply AC/CC



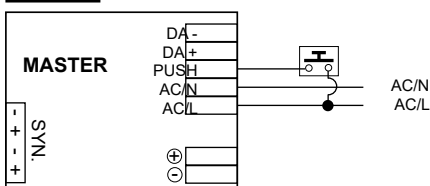
## Installation with a DALI interface & push dimming function

10 drivers (max.) synchronization ( 1 master + 9 slaves)  
 Maximum length of the cable from first driver to last driver is 15 meter.

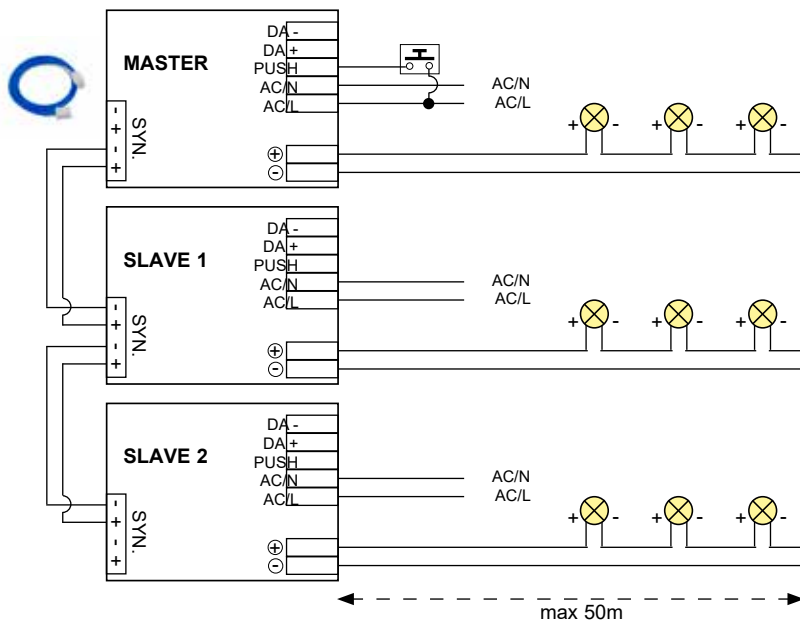
### DALI interface



### PUSH dim



Warning: The push button can only be connected between the PUSH terminal and AC/L.  
 It would cause short circuit if it is connected to AC/N.



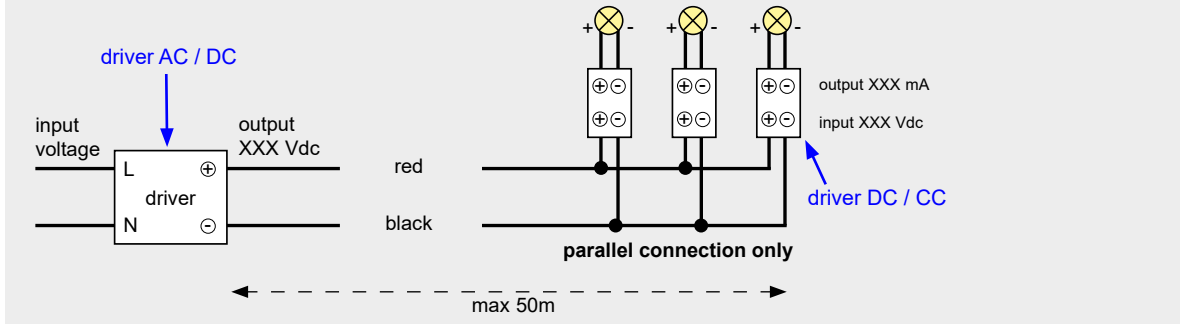
# Led Power Supply

## Information

### Installation with a Constant Voltage power supply **DC/CC**

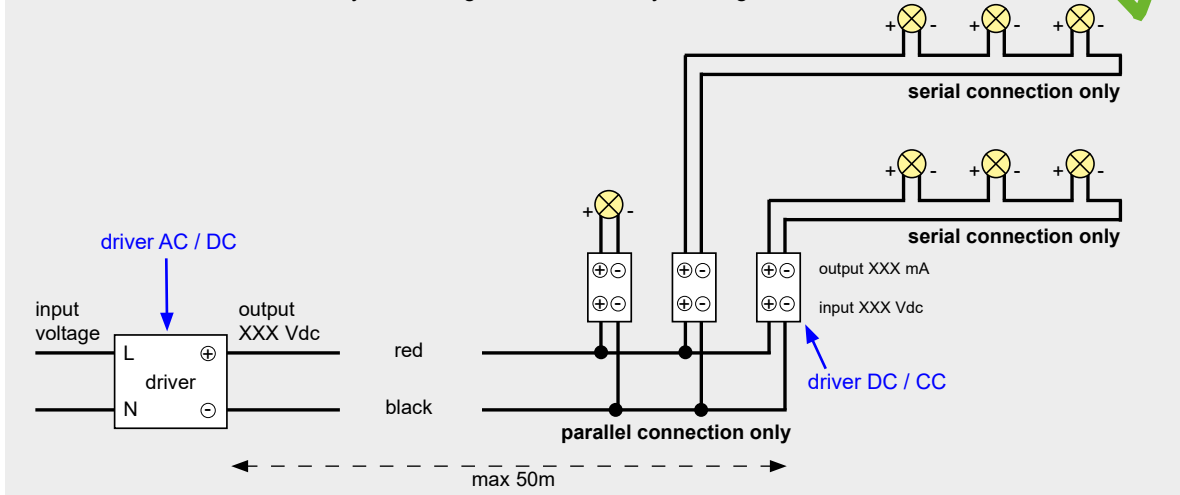
Advantages:

- a very small driver DC/CC per luminaire (with DL0350.011.67D8)
- if one luminaire is defect, only this is off
- the whole installation is in very low voltage for better safety in the garden



Advantages:

- the whole installation is in very low voltage for better safety in the garden



### Max. distance driver LED

Driver constant current ( 350mA or 500mA)				
Distance	5 m	10 m	20 m	50m
Cable section	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>	0,5 mm <sup>2</sup>	1,0 mm <sup>2</sup>

Driver constant current ( 700mA)				
Distance	5 m	10 m	20 m	50m
Cable section	0,5 mm <sup>2</sup>	0,5 mm <sup>2</sup>	1,0 mm <sup>2</sup>	2,5 mm <sup>2</sup>

Driver constant voltage ( max. 70W - 24VDC)				
Distance	5 m	10 m	20 m	30m
Cable section	0,75 mm <sup>2</sup>	1 mm <sup>2</sup>	1,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>

Driver constant voltage ( max. 150W - 24VDC)				
Distance	5 m	10 m	20 m	30m
Cable section	1,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>	4,0 mm <sup>2</sup>	4,0 mm <sup>2</sup>



## **Table of Contents**

	IK - IP - CE & Other .....	488
<b>EN</b>	General information .....	498
<b>NL</b>	Algemene informatie .....	508
<b>FR</b>	Informations générales .....	516
<b>DE</b>	Allgemeine Informationen .....	526
<b>GR</b>	Γενικές πληροφορίες .....	534
	Index .....	546

INFORMATION

# IP DEGREE OF PROTECTION

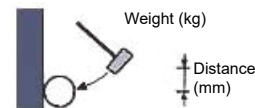
<b>FIRST DIGIT CODE:</b> <b>Protection against penetration by solid bodies</b> <b>Beschermd tegen voorwerpen</b> <b>Protection contre les corps solides</b> <b>Schutz vor festen Stoffen</b> <b>IP 1ο ΨΗΦΙΟ (ΣΤΕΡΕΑ)</b>		<b>SECOND DIGIT CODE:</b> <b>Protection against penetration by water</b> <b>Beschermd tegen vocht</b> <b>Protection contre l'humidité</b> <b>Schutz vor Feuchtigkeit</b> <b>IP 2ο ΨΗΦΙΟ (ΝΕΡΟ)</b>	
0	No protection Niet beschermd Non Protégé Ohne Schutz Καμία προστασία	0	No protection Niet beschermd Non Protégé Ohne Schutz Καμία προστασία
1	Protected against solid matters > 50mm Beschermd tegen voorwerpen > 50mm Protégé contre les corps solides > 50mm Schutz vor festen Stoffen > 50mm Προστασία από στερεά σώματα μεγαλύτερα από 50mm	1	Protected against dripping water Beschermd tegen verticaal vallende druppels Protégé contre chute de gouttes d'eau verticale Schutz vor senkrecht fallendem Tropfwasser Προστασία από κάθετη πτώση σταγόνων νερού
2	Protected against solid matters > 12mm Beschermd tegen voorwerpen > 12mm Protégé contre les corps solides > 12mm Schutz vor festen Stoffen > 12mm Προστασία από στερεά σώματα μεγαλύτερα από 12mm	2	Protected against dripping water when tilted up to 15° Beschermd tegen druppels onder hoek van max. 15° Protégé contre chute d'eau oblique max. 15° Schutz vor schräg fallendem Tropfwasser bis 15° Neigung Προστασία από πτώση σταγόνων νερού υπό γωνία ως 15ο από τον κατακόρυφο άξονα
3	Protected against solid matters > 2,5mm Beschermd tegen voorwerpen > 2,5mm Protégé contre les corps solides > 2,5mm Schutz vor festen Stoffen > 2,5mm Προστασία από στερεά σώματα μεγαλύτερα από 2,5mm	3	Protected against spraying water when tilted up to 60° Beschermd tegen sproeiwater onder hoek van max. 60° Protégé contre la pluie oblique max. 60° Schutz vor schräg fallendem Sprühwasser bis 60° Neigung Προστασία από πτώση νερού βροχής υπό γωνία έως 60ο από τον κατακόρυφο άξονα
4	Protected against solid matters > 1mm Beschermd tegen voorwerpen > 1mm Protégé contre les corps solides > 1mm Schutz vor festen Stoffen > 1mm Προστασία από στερεά σώματα μεγαλύτερα από 1mm	4	Protected against splashing water Beschermd tegen spatwater uit alle richtingen Protégé contre les projections d'eau de toutes directions Schutz vor Spritzwasser Προστασία από πτώση νερού από όλες τις κατευθύνσεις
5	Dust Protected Beschermd tegen stof Protégé contre la poussière Staubgeschützt Προστασία από τη σκόνη	5	Protected against water jets Beschermd tegen waterstralen uit alle richtingen Protégé contre les jets d'eau de toutes directions Schutz vor Strahlwasser Προστασία από ρίψη νερού υπό πίεση από όλες τις κατευθύνσεις
6	Fully tight Volledig stofdicht Etanche aux poussières Staubdicht Απόλυτη προστασία από τη σκόνη	6	Protected against heavy seas Beschermd tegen golven, zware zeeën Protection contre les jets d'eau forts Schutz vor starkem Strahlwasser Προστασία από ρίψη νερού υπό πίεση ισοδύναμη με θαλάσσια κύματα
		7	Protected against the effects of immersion Beschermd tegen beperkte onderdompeling Protection contre courtes immersions Schutz vor zeitweiligem Untertauchen Προστασία από επιρροές βύθισης
		8	Protected against submersion Beschermd tegen permanente onderdompeling Protection contre l'immersion permanente Schutz vor dauerndem Untertauchen Προστασία από επιρροές βύθισης διάρκειας, σε καθορισμένες συνθήκες



## MAXIMUM 12VAC ,18VDC OR 30VDC WITH CONSTANT CURRENT.

- Underwater lighting fixtures can be powered only at very low safety voltage.
- De verlichtingstoestellen gebruikt in een zwembad of waterpartij mogen enkel met een zeer lage veiligheid spanning gevoed worden.
- Les luminaires à l'intérieur d'un bassin ne peuvent être alimentés qu'en très basse tension de sécurité.
- Unterwasserleuchten können nur mit sehr niedriger Sicherheitsspannung betrieben werden.
- Τα υποβρύχια φωτιστικά μπορούν να τροφοδοτούνται μόνο με πολύ χαμηλή τάση ασφαλείας.

## IK DEGREE OF PROTECTION



**Protection against impact of mechanical origin**  
**Bescherming tegen de invloed van mechanische oorsprong**  
**Protection contre les chocs d'origine mécanique**  
**Schutz vor Stromschlägen mechanischen Ursprungs**  
**Ανθεκτικότητα στην κρούση**

IK	00	01	02	03	04	05	06	07	08	09	10
<b>Joule (J)</b>	<b>0</b>	<b>0,15</b>	<b>0,20</b>	<b>0,37</b>	<b>0,50</b>	<b>0,70</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>20</b>
Weight (kg)	0	0,15	0,15	0,15	0,25	0,15	0,50	0,50	1,70	5,00	5,00
Distance (mm)	0	100	133	233	333	485	200	400	300	200	400



### CLASS I - CLASSE I - SCHUTZKLASSE I

- Light fixture whose safety is guaranteed by the main insulation and an additional protective conductor (earth contact) connected with the metal frame of the lamp. Earth contact is obligatory.
- Deze armaturen zijn uitgerust met aansluitmogelijkheid voor aarding, waarmee alle aanraakbare metalen delen die bij een isolatiestoring direct onder spanning kunnen komen, moeten verbonden zijn. Aansluiting aan de aardleiding is verplicht.
- Les luminaires sont équipés d'un moyen de raccordement pour la mise à la terre, qui interconnecte toutes les parties métalliques exposées susceptibles d'être mises sous tension suite à un défaut de l'isolation. Le raccordement de mise à la terre est obligatoire. En cas de défectuosité, le courant est coupé par fusible.
- Die Leuchten sind mit Verkabelungen für den Erdanschluß ausgestattet, die alle ausgelegten metallischen Bestandteile miteinander vernetzen, welche im Falle einer Isolationspanne mit Strom versorgt werden können. Die Erdanschlußverkabelungen sind obligatorisch. Im Falle eines Defektes, wird der Strom durch eine Sicherung abgestellt.
- Ένα φωτιστικό, του οποίου η ασφάλεια είναι εγγυημένη από έναν πρόσθετο προστατευτικό αγωγό (γείωση), που συνδέεται με το μεταλλικό πλαίσιο του φωτιστικού.



### CLASS II - CLASSE II - SCHUTZKLASSE II

- Light fixture whose safety is guaranteed by the main insulation and additional safety devices as double or reinforced insulation of conductive parts. Earth contact is not necessary.
- Deze armaturen hebben een beschermende isolatie zonder metaaldelen die genaakbaar zijn. Dubbele isolatie zonder aarding.
- Les luminaires possèdent une isolation renforcée sans partie métallique accessible. Double isolation sans mise à la terre.
- Die Leuchten besitzen eine verstärkte Isolierung ohne metallische Bestandteile. Doppelte Isolierung ohne Erdanschluß.
- Ένα φωτιστικό, του οποίου η ασφάλεια διασφαλίζεται από την κύρια μόνωση και πρόσθετες διατάξεις ασφαλείας ως διπλή ή ενισχυμένη μόνωση αγωγίων μερών. Η σύνδεση με τη γείωση δεν είναι απαραίτητη.



### CLASS III - CLASSE III - SCHUTZKLASSE III

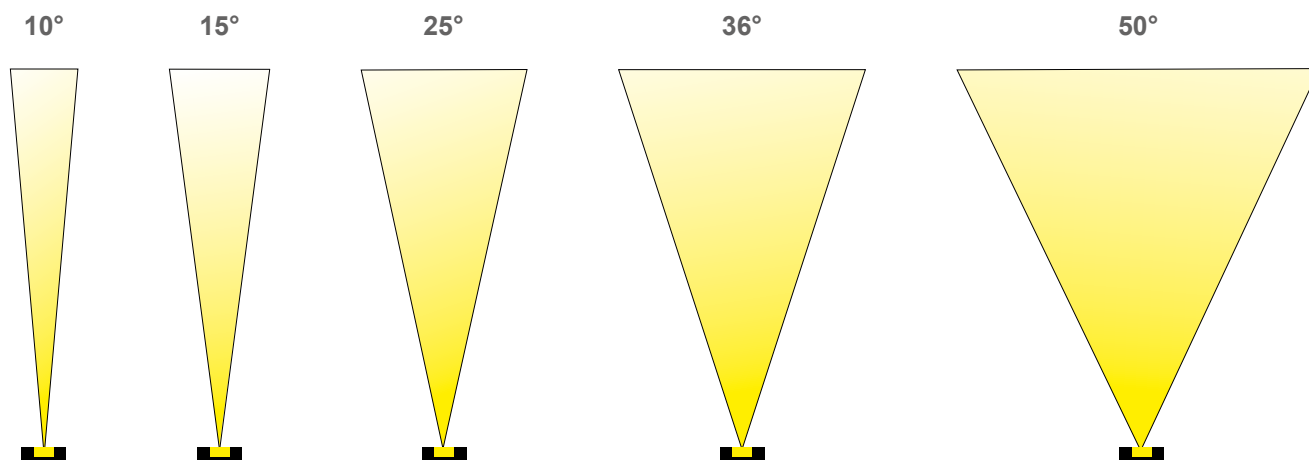
- Light fittings whose safety is guaranteed by the very low safety supply voltage. Authorized maximal voltage: 50 volts
- Deze armaturen waarin de bescherming tegen elektrische schokken beschermt word door zijn lage spanning ( SELV) ( Maximale spanning 50volt.
- Luminaire dont la protection contre les chocs électriques repose sur son alimentation sous très basse tension de sécurité (TBTS) (tension maximale autorisée : 50 Volts).
- Leuchten deren Schutz vor Stromschlägen auf eine sehr niedrige, abgesicherte Stromspannung beruht. (Max. erlaubte Spannung: 50 Volts)
- Ένα φωτιστικό, του οποίου η ασφάλεια διασφαλίζεται από την πολύ χαμηλή τάση τροφοδοσίας. Επιτρεπόμενη μέγιστη τάση: 50 volt.



### CE standard - CE norm - norme CE

- The mark CE represents an implicit assurance of quality and affixed under the sole responsibility of the manufacturer. The mark CE must be affixed on the product, or in alternative, on the packing or on directions.
- De CE markering waarborgt een stilzwijgende kwaliteitsgarantie en wordt aangebracht onder uitdrukkelijke verantwoordelijkheid van de fabrikant. De CE markering wordt aangebracht op het toestel of als alternatief op de verpakking of de gebruiksaanwijzing.
- La marque CE représente une implicite assurance de qualité et est apposée sous la responsabilité exclusive du fabriquant. La marque CE doit être apposée sur l'appareil, ou en alternative, sur l'emballage ou sur les modes d'emploi.
- Das CE-Zeichen verkörpert eine klare Sicherung der Qualität und wird auf ausschliessliche Verantwortung des Herstellers angebracht. Das CE-Zeichen muss auf dem Produkt, auf der Verpackung oder auf der Gebrauchsanweisung angebracht werden.
- Η σήμανση CE αποτελεί μια έμμεση διασφάλιση της ποιότητας και τίθεται υπό την αποκλειστική ευθύνη του κατασκευαστή.

## BEAM ANGLE



### Lichtbundels

Alle lichtbundels in deze catalogus zijn aangegeven in FWHM stralingshoek.

FWHM = Full Width Half Maximum: Het is de afstand tussen twee punten waarvan de intensiteit 50% van de piek bedraagt.

FWTM = Full Width Tenth Maximum: Het is de afstand tussen twee punten waarvan de intensiteit 10% van de piek bedraagt.

### Faisceaux lumineux

Tous les faisceaux lumineux de ce catalogue sont indiqués en angle FWHM

FWHM = Full Width Half Maximum: ça représente la distance entre deux points dont l'intensité est de 50 % du pic.

FWTM = Full Width Tenth Maximum: ça représente la distance entre deux points dont l'intensité est de 10 % du pic.

### Beam angle

All light beams in this catalog are indicated in FWHM beam angle.

FWHM = Full Width Half Maximum: it represents the distance between two points whose intensity is 50 % of the peak.

FWTM = Full Width Tenth Maximum: it represents the distance between two points whose intensity is 10 % of the peak.

### Lichtstrahlen

Alle Lichtstrahlen in diesem Katalog sind in FWHM-Abstrahlwinkel angegeben.

FWHM = Full Width Half Maximum: Es stellt den Abstand zwischen zwei Punkten dar, deren Intensität 50 % des Peaks beträgt.

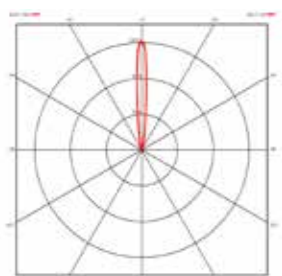
FWTM = Full Width Tenth Maximum: Es stellt den Abstand zwischen zwei Punkten dar, deren Intensität 10 % des Peaks beträgt.

### Δέσμες φωτός

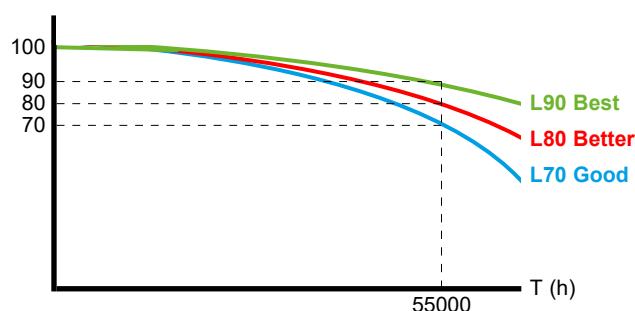
Όλες οι δέσμες φωτός σε αυτόν τον κατάλογο προσδιορίζονται στο "FWHM beam angles".

FWHM = Full Width Half Maximum: Είναι η απόσταση μεταξύ δύο σημείων των οποίων η ένταση είναι 50% της κορυφής.

FWTM = Full Width Tenth Maximum: Είναι η απόσταση μεταξύ δύο σημείων των οποίων η ένταση είναι 10% της κορυφής.



## LIFESPAN OF LEDS



example

Tc	L70	L70B50	L70B20	L70B10	L80	L80B50	L80B20	L80B10	L90	L90B50	L90B20	L90B10
85C	>55.000 hr	200.000 hr	148.000 hr	137.000 hr	>55.000 hr	123.000 hr	93.000 hr	85.000 hr	>55.000 hr	56.000 hr	44.000 hr	41.000 hr

### Levensduur van de leds

Een L80-B10 85.000 hrs LED-classificatie van uur betekent dat na 85.000 bedrijfsuren 90% van de LED's meer dan 80% van hun oorspronkelijke lichtstroom produceert en 10% van de LED's minder dan 80% van hun oorspronkelijke lichtstroom produceert. Maar dat betekent niet dat de levensduur 85.000 uur is, de lamp werkt nog steeds!

### Durée de vie des leds

Une classification des leds L80 B10 85000 hrs, signifie, qu'après 85000 heures de fonctionnement, 90 % des LED produiront un flux supérieur à 80 % de leur flux lumineux initial et 10 % des LED produiront un flux inférieur à 80 % de leur flux lumineux initial. Mais ça ne signifie pas que sa durée de vie soit de 85 000 heures, le luminaire fonctionnera encore !

### Lifespan of leds

An L80 B10 85000 hrs LED rating means that after 85000 hours of operation, 90% of LEDs will produce a flux greater than 80% of their initial luminous flux and 10% of LEDs will produce a flux less than 80% of their initial luminous flux . But that doesn't mean that its lifespan is 85,000 hours, the fixture will still work!

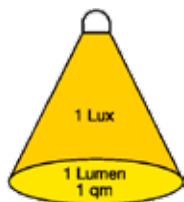
### Lebensdauer der LEDs

Eine L80-B10-LED-Bewertung von 85.000 Stunden bedeutet, dass nach 85.000 Betriebsstunden 90 % der LEDs mehr als 80 % ihres ursprünglichen Lichtstroms und 10 % der LEDs weniger als 80 % ihres ursprünglichen Lichtstroms erzeugen. Das heißt aber nicht, dass die Lebensdauer 85.000 Stunden beträgt, die Lampe funktioniert immer noch!

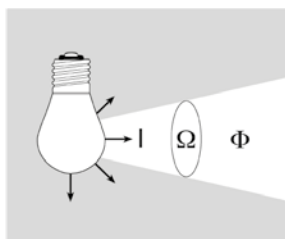
### Διάρκεια ζωής των LED

Η βαθμολογία LED L80 B10 85000 hrs ωρών σημαίνει ότι μετά από 85000 ώρες λειτουργίας, το 90% των LED θα παράγει περισσότερο από το 80% της αρχικής φωτεινής ροής και το 10% των LED θα παράγει λιγότερο από το 80% της αρχικής φωτεινής ροής τους. Αλλά αυτό δεν σημαίνει ότι η διάρκεια ζωής του είναι 85.000 ώρες, το φωτιστικό θα εξακολουθεί να λειτουργεί!

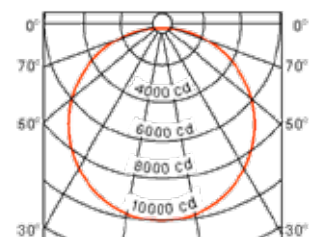
## Unit of light measurement



Illuminance (lx)



Luminous flux (lm)



Luminous intensity (cd)

### Verlichting

**lux : (lx)** de lux stemt dus overeen met de verlichtingssterkte die men heeft wanneer iedere vierkante meter van het beschouwde oppervlak een lichtstroom van één lumen ontvangt. Het aantal lux wordt bijgevolg gevonden als het quotiënt van de totaal ontvangen lichtstroom, uitgedrukt in lumen, en de grootte van het verlichte oppervlak uitgedrukt in vierkante meters; derhalve is 1 lux = 1 lumen/m<sup>2</sup>.

### L'éclairage

**lux : (lx)** compte la luminosité ,c'est-à-dire l'écoulement lumineux qui tombe sur une surface concrète.Cette mesure est influencée par la fréquence de la radiation et la distance de la source. Plus grande est la distance de la source lumineuse, plus petite sera la luminosité. L'unité lux représente les lumens par mètre carré de surface (lumen/m<sup>2</sup>) et est utilisée pour déterminer l'écoulement lumineux indispensable au point éclairé. La différence entre lux et lumen est que le lux prend en compte la surface sur laquelle tombe l'écoulement lumineux.

### Illuminance

**lux : (lx)** the brightness, i.e. the luminous flow which falls on a concrete surface. This measure is influenced by the frequency of the radiation and the distance from the source. The greater the distance from the light source, the smaller the brightness. The lux unit represents brightness per square meter of surface (lumen/m<sup>2</sup>) and is used to determine the flow of light in critical points. The difference between lux and lumen is that lux takes into account the surface on which the light flow falls.

### Beleuchtung

**lux : (lx)** misst die Leuchtkraft, d.h. den Lichteinfall auf eine bestimmte Fläche. Diese Messung wird von der Strahlenfrequenz und der Distanz zur Lichtquelle beeinflusst. Je weiter der Abstand zur Leuchtquelle, desto kleiner die Leuchtkraft. Die Einheit lux steht für Lumens pro m<sup>2</sup> Fläche (lumen/m<sup>2</sup>) und wird zur Bestimmung des notwendigen Lichteinfalls am beleuchteten Punkt genutzt. Der Unterschied zwischen Lux und Lumen ist der, dass Lux die Fläche auf die das Licht einfällt, mitberücksichtigt.

### Φωτισμός

**lux : lx (λούξ)** Σε lux μετριέται η φωτεινότητα (illuminance), δηλαδή η φωτεινή ροή που προσπίπτει σε μία συγκεκριμένη επιφάνεια, μακριά από μία φωτεινή πηγή. Η τιμή αυτή επηρεάζεται από τη συχνότητα της ακτινοβολίας και την απόσταση από την πηγή. Όσο μεγαλύτερη είναι η απόσταση από τη φωτεινή πηγή, τόσο μικρότερη θα είναι η φωτεινότητα. Η μονάδα lux αντιπροσωπεύει τα lumens ανά τετραγωνικό μέτρο επιφάνειας (lumen/m<sup>2</sup>) και χρησιμοποιείται, για να προσδιορίσει την απαραίτητη φωτεινή ροή στο φωτιζόμενο σημείο. Η διαφορά ανάμεσα σε lux και σε lumen είναι ότι το lux λαμβάνει υπόψη την επιφάνεια, στην οποία προσπίπτει η φωτεινή ροή.

## Lichtstroom

Alle uitgestraald vermogen uitgezonden door een lichtbron en waargenomen door het heet lichtstroom.

**lumen** : (lm) rekening houdend met de stroom van licht (flux), dat een lichtbron produceert.

## Flux lumineux

Toute la puissance rayonnée émise par une source lumineuse et perçue par l'œil est appelée flux lumineux .

**lumen** : (lm) compte l'écoulement lumineux( flux), que produit une source lumineuse.

## Luminous flux

All the radiated power emitted by a light source and perceived by the eye is called luminous flux.

**lumen** : (lm) is the luminous flow (flux), that a light source produces.

## Lichtstrom

Die gesamte Strahlkraft die von einer Lichtquelle ausgeht, wird durch das Auge wahrgenommen und Lichtstrom genannt.

**lumen** : (lm) zählt den Lichtstrom den eine Leuchtquelle produziert.

## Φωτεινή ροή

Όλες η εκπεμπόμενη ισχύς που εκπέμπεται από μια πηγή φωτός και αντιληπτή από το μάτι καλείται φωτεινή ροή.

**lumen** : lm (λούμεν) Η μονάδα μέτρησης της φωτεινής ροής (luminous flux), την οποία παράγει μια φωτεινή πηγή.

## De lichtintensiteit

In het algemeen straald een lichtbron haar lichtstroom in verschillende richtingen en met verschillende sterktes. De intensiteit van de zichtbare straling in een bepaalde richting wordt lichtsterkte genoemd.

**candela** :( cd ) Dit is de intensiteit van de lichtbron, die aan een meter van de lichtbron een helderheid van 1 lumen/m<sup>2</sup> (dat wil zeggen 1 lux).

## Intensité lumineuse

D'une manière générale, une source de lumière émet son flux lumineux dans des directions différentes et à des intensités différentes. L'intensité de rayonnement visible dans une direction particulière est appelée intensité lumineuse.

**candela** :( cd ) Il s'agit de l'intensité de la source lumineuse, qui à distance d'un mètre de la source a une luminosité de 1 lumen/m<sup>2</sup> (c'est-à-dire 1 lux).

## Luminous intensity

Generally speaking, a light source emits its luminous flux in different directions and at different intensities. The visible radiant intensity in a particular direction is called luminous intensity.

**candela** :( cd) Hier handelt es sich um die Intensität der Lichtquelle, welche bei einem Abstand von 1m von der Lichtquelle eine Leuchtkraft von 1 Lumen/m<sup>2</sup> beträgt (also 1 lux).

## Lichtintensität

Im allgemeinen strahlt eine Lichtquelle ihren Lichtstrom in verschiedene Richtungen und in unterschiedlicher Intensität aus. Die Intensität der sehbaren Leuchtkraft in eine bestimmte Richtung wird Lichtintensität genannt.

**candela** :( cd) die Intensität der Lichtquelle, eine Entfernung von einem Meter von der Quelle eine Helligkeit von 1 Lumen/m<sup>2</sup> (dh 1 Lux) in Bezug auf die Farbzuordnung des Lichts.

## Φωτεινή ένταση

Σε γενικές γραμμές, μια πηγή φωτός εκπέμπει ροή προς διαφορετικές κατευθύνσεις και με διαφορετικές εντάσεις.

Η ποσότητα της φωτεινής ισχύος που εκπέμπεται από μια σημειακή πηγή εντός μιας συγκεκριμένης στερεάς γωνίας ορίζεται ως φωτεινή ένταση.

Chromaticity Diagram

Color temperature

Luminance

### Kleurtemperatuur

De kleurtemperatuur van een lichtbron wordt gedefinieerd ten opzichte van een "zwarte straal" en weergegeven op de "Planck curve", zoals weergegeven op het diagram. Hoe meer de kleurtemperatuur van deze "zwarte straal" hoog is, hoe hoger het blauw spectrum is en hoe minder rood aanwezig is.

### La température de couleur

La température de couleur d'une source lumineuse est définie par rapport à un «corps radiateur noir» et reportée sur ce qui est connu sous le nom de la «courbe de Planck», comme le montre le diagramme. Plus la température de ce «corps radiateur noir» est élevée, plus grande est la composante bleue du spectre et plus petite la composante rouge.

### Color temperature

The color temperature of a light source is defined in relation to a «black body radiator» and plotted on what is known as the «Planckian curve» as shown in the diagram. The higher the temperature of this «black body radiator», the greater the blue component of the spectrum and the smaller the red component.

### Farbtemperatur

Die Farbtemperatur einer Lichtquelle wird anhand eines „schwarzen Strahlkörpers“ definiert und auf die „Plancksche Kurve“ übertragen, wie in dem Diagramm dargestellt. Je höher die Temperatur des „schwarzen Strahlkörpers“, desto höher ist der Blauanteil des Spektrums und desto kleiner ist der Rotanteil.

### Θερμοκρασία χρώματος

Η θερμοκρασία χρώματος της φωτεινής πηγής ορίζεται σε σχέση με ένα «ακτινοβόλο μαύρο σώμα» και αποτυπώνεται.

Στην «καμπύλη Planck», όπως φαίνεται στο διάγραμμα. Όσο υψηλότερη η θερμοκρασία χρώματος, τόσο μεγαλύτερη είναι και η μπλε συνιστώσα του φάσματος και τόσο μικρότερη η κόκκινη.

### Indicative:

candle	sunrise - sunset	morning - afternoon	midday medium light	great sun	overcast haze	warm white	< 3500 K°
1000	2000	3000	4000	5000	6000	neutral white	> 3500 K°
					7000	daylight	> 5000 K°
					8000		
					9000		

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## Luminantie

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Met de lichtsterkte, dat wil zeggen de stroom van licht dat valt op een welbepaald oppervlak. Deze maatregel wordt beïnvloed door de frequentie van de straling en de afstand tot de bron. Hoe groter de afstand tot de lichtbron, hoe kleiner de helderheid. De eenheid lux vertegenwoordigt het aantal lumen per vierkante meter (lumen/m<sup>2</sup>) en wordt gebruikt om de lichtstroom te bepalen vereist voor het te belichten punt. Het verschil tussen lux en lumen is dat lux rekening houdt met het te belichten oppervlak.

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## La luminance

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La luminance d'une source de lumière ou une zone éclairée est une mesure de combien l'œil est stimulé et donc de la façon dont une grande impression de luminosité est créée dans le cerveau. Elle est mesurée en candelas par mètre carré.

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## Luminance

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The luminance of a light source or an illuminated area is a measure of how much the eye is stimulated and therefore of how great an impression of brightness is created in the brain. It is measured in candelas per square meter.

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## Die Leuchtdichte

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Die Leuchtdichte einer Lichtquelle oder einer beleuchteten Fläche ist ein Maßstab für die Augenstimulation und somit dafür, wie eine starke Wahrnehmung der Helligkeit im Gehirn entsteht. Sie wird in Candela pro m<sup>2</sup> gemessen.

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## Φωτεινότητα

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Η φωτεινότητα της φωτεινής πηγής ή μια φωτεινή επιφάνεια είναι ένα μέτρο του πόσο διεγείρεται και, επομένως, το πόσο μεγάλη είναι η εντύπωση, που δημιουργεί στον εγκέφαλο. Μετρείται σε Candela ανά τετραγωνικό μέτρο.

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## L'efficacité lumineuse

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Lichtopbrengst geeft aan dat de efficiëntie waarmee de elektrische stroom wordt omgezet in licht. Dit wordt gemeten in lumen per Watt (lm / W).

---

## L'efficacité lumineuse

---

L'efficacité lumineuse indique l'efficacité avec laquelle la puissance électrique consommée est convertie en lumière. Elle est mesurée en lumens par watt (lm / W).

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## Luminous efficacy

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Luminous efficacy indicates the efficiency with which the electrical power consumed is converted into light. It is measured in lumens per watt (lm/W).

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## Leuchtkraft

---

Die Leuchtkraft gibt die Wirkungskraft an, mit der die verbrauchte Stromleistung in Licht umwandelt wird. Sie wird in Lumens pro Watt (lm/W) gemessen.

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## Φωτεινή απόδοση

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Φωτεινή απόδοση δείχνει την αποτελεσματικότητα με την οποία η ηλεκτρική ενέργεια που καταναλώνεται μετατρέπεται σε φως. Μετρείται σε lumens ανά watt (lm / W).

# 2200K - 2700K

## The new lighting standard for every outdoor space

### The influence of blue light on insects and humans.

Reducing blue light is recommended to decrease the light's attractive effect on animals, especially insects.

So it is better to choose a color close to 2700K or 3000K rather than 4000K. The light produced will be closer to orange-yellow and LIMITS BY 30% the direct emission of blue light produced by the LED.

BEL LIGHTING standard luminaires usually feature a color temperature of **2700 and/or 3000 Kelvin**.

On request, many standard BEL LIGHTING luminaires are additionally available with a color temperature between **2700 and 2200 Kelvin**.

### Invloed van blauw licht op insecten en mensen.

Het is aan te raden om blauw licht te verminderen om het aantrekkelijke effect van licht op dieren, met name insecten, te verminderen.

Het is dus beter om een kleur te kiezen die dicht bij 2700K of 3000K ligt dan bij 4000K. Het geproduceerde licht zal dicht bij oranjegeel liggen en BEPERKT MET 30% de directe emissie van blauw licht dat door de LED wordt geproduceerd.

De standaardarmaturen van BEL LIGHTING hebben doorgaans een kleurtemperatuur van **2700 en/of 3000 Kelvin**.

Op aanvraag zijn veel BEL LIGHTING standaardarmaturen ook leverbaar met een kleurtemperatuur tussen **2700 en 2200 Kelvin**.

### Influence de la lumière bleue sur les insectes et les humains.

Il est recommandé de réduire la lumière bleue afin de diminuer l'effet attractif de la lumière sur les animaux, en particulier les insectes.

Ainsi il est préférable de choisir une couleur proche de 2700K ou 3000K plutôt que 4000K. La lumière produite sera plus proche du jaune orangé et LIMITE DE 30 % l'émission directe de la lumière bleue produite par la LED.

Les luminaires standards BEL LIGHTING présentent généralement une température de couleur de **2700 et/ou 3000 Kelvin**.

Sur demande, de nombreux luminaires standards BEL LIGHTING sont également disponibles avec une température de couleur de **2700 et 2200 Kelvin**.

### Einfluss von blauem Licht auf Insekten und Menschen.

Um die anziehende Wirkung des Lichts auf Tiere, insbesondere Insekten, zu verringern, wird empfohlen, den blauen Lichtanteil zu reduzieren.

Wählen Sie daher besser eine Farbe nahe 2700 K oder 3000 K als 4000 K. Das erzeugte Licht nähert sich dann einem Orange-Gelb an und BEGRENZT die direkte Emission von blauem Licht durch die LED um 30 %.

BEL LIGHTING Standardleuchten haben grundsätzlich eine Farbtemperatur von **2700 bzw. 3000 Kelvin**.

Auf Anfrage sind viele BEL LIGHTING Standardleuchten auch mit einer Farbtemperatur zwischen **2700 und 2200 Kelvin** erhältlich.

### Επίδραση του μπλε φωτός σε έντομα και ανθρώπους.

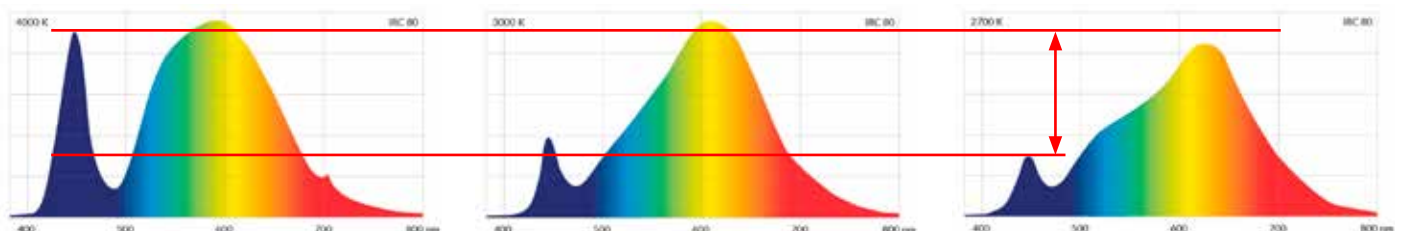
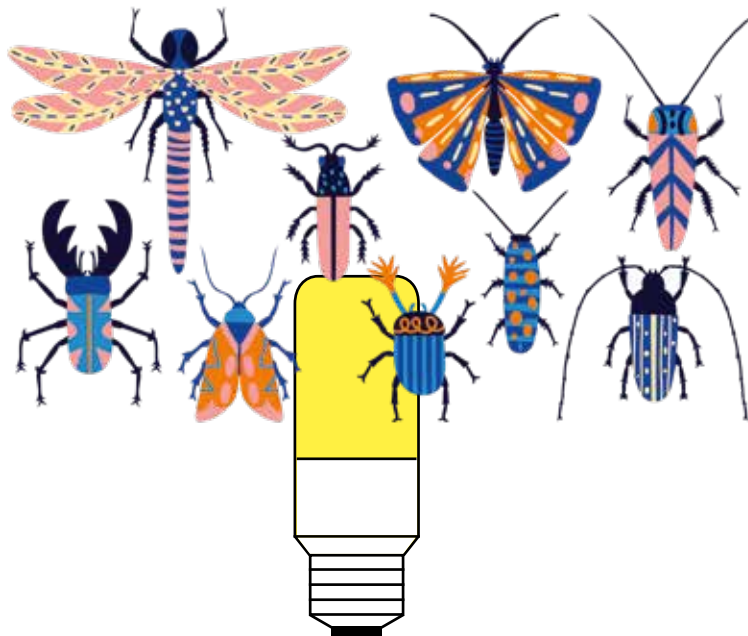
Συνιστάται η μείωση του μπλε φωτός προκειμένου να μειωθεί η ελκυστική επίδραση του φωτός στα ζώα, ιδιαίτερα στα έντομα.

Επομένως, είναι προτιμότερο να επιλέξετε ένα χρώμα κοντά στα 2700K ή 3000K παρά στα 4000K. Το παραγόμενο φως θα είναι πιο κοντά στο πορτοκαλοκίτρινο και θα ΠΕΡΙΟΡΙΣΕΙ ΚΑΤΑ 30% την άμεση εκπομπή του μπλε φωτός που παράγεται από το LED.

Τα τυπικά φωτιστικά BEL LIGHTING έχουν γενικά θερμοκρασία χρώματος **2700 ή/και 3000 Kelvin**.

Κατόπιν παραγγελίας, διατίθενται επίσης πολλά στάνταρ φωτιστικά σώματα BEL LIGHTING με θερμοκρασία χρώματος μεταξύ **2700 και 2200 Kelvin**.

# The influence of blue light on insects and humans



# Raw materials

## Stainless steel 316 and 304L

Stainless steel is a unique material with exceptional resistance that can be easily recycled. Its values and its functional cash value allows it to be used not only for prestigious and major industrial projects, but also for any type of industry (automotive, food, ...). Stainless steel can remain unchanged for decades before having to undergo any treatment. In addition to its extreme resistance to corrosion, it also has thermal and mechanical resistance. Stainless steel is self protected by responding to atmospheric oxygen by creating a resistant protective membrane. The 304L stainless can cause oxidation stains (ironic) that disappear through cleaning. Its nickel content, mainly chromium, increases its resistance to corrosion. Beware stainless steel that has been treated by instruments as lathes, CNC, etc.. is magnetized due to electrical charges that develop during treatment because of friction.

### **Turned stainless steel 304L products - brushed appearance (color code = 04):**

They can be used indoors and outdoors but should not be placed in a polluted atmosphere (industrial zone, port, swimming pool, chemical industry, barn, etc.). The place of your project must be located more than 20km from the coast.

For optimal installation in aggressive environments, we offer:

- High version (code = 04EP) = Stainless steel 304L brushed appearance + Electropolishing

Do not hesitate to ask for a personalized offer

### **Turned stainless steel 316L products - brushed appearance (color code = 16):**

They can be used in aggressive environments (seaside, poolside, etc.), but be careful, this does not exclude the appearance of some rust spots if the luminaire is not maintained regularly (especially in chlorinated environments and iodized, or if the products are exposed to severe weather)

For optimal installation in aggressive environments, we offer:

- High + version (code = 16EP) = Stainless steel 316L brushed appearance + Electropolishing

Do not hesitate to ask for a personalized offer

### Electropolishing of stainless steel

Stainless steel (304L or 316L) installed in a marine environment (up to 20km from the sea) is doomed to become dull. Dirt and other microscopic dust loaded with iron will be able to store and mix with the salts of seaside spray and accelerate their oxidation into rust stains.

After electropolishing treatment, dust and spray can no longer be stored. This purely electrochemical treatment removes impurities and iron and reduces the surface by micro-deburring. The surface, smoother and richer in chrome, gets a brilliant shine and an optimal and durable corrosion resistance.

This process is used for the chemical and pharmaceutical industry, for external and architectural applications, boats and yachts, swimming pools, for marine situations and other applications facing to pitting corrosion. Feel free to request a personalized offer, this process is available on most of our lights in stainless steel 304L or 316L.

## Copper

Together with gold, copper is the only metal that is naturally colored. The natural aspect of this metal has a red color which gives it a metal look when it shines. It has a thermal and electrical conductivity and has excellent resistance to erosion of water, Marine environment and organic acids. It has no magnetic attributes. Copper is self protected by developing a layer of natural brown-green when exposed to the outside environment.

## Brass

This is an alloy of copper and zinc. A harder metal than copper, it has a yellowish natural view. Brass creates a natural layer of brown-black on its surface for self protection from corrosion when exposed to the external environment.

## Aluminum (series 6000)

Alloys like Aluminum of silicon and magnesium, are used in principal for our production profiles of different thicknesses of the 6000 series. It has very good decorative conduct, but also an exceptional resistance to atmospheric erosion.

### Aluminum treatments

● **Anodization:** is the transformation of the surface of the aluminum and the creation of an artificial layer of oxide. The process is done under controlled conditions and so this oxide layer is very consistent and hard in order to protect the aluminum. On all our products with the color code «32», we perform a standard anodization equal to **15 microns**.

For optimal installation in aggressive environments, we offer:

double clear anodization (code = 32D) or black anodization (code = 02A) : **20+ microns «sea side»**

This double anodizing is recommended for installation in aggressive environments (seaside, poolside, etc.)

Other colors with **20+ microns «sea side»** anodization are bronze (33), matt gold (34), green (35) and burgundy (36)

Do not hesitate to ask for a personalized offer.

### **Hue variations on anodized aluminium lighting fixtures**

Our anodized aluminium lighting fixtures are carefully crafted to combine both aesthetic appeal and durability. However, it is important to note that slight hue variations can occur, even on the same fixture. These differences are a natural result of the anodizing process, as the material can react differently depending on factors such as the dispersion of light. These variations contribute to the authenticity and unique character of each luminaire. If you have any questions or need further details about the finish of our products, please do not hesitate to contact us.

● **Electrostatic painting:** it is a polyester layer of paint. The prior stage is the coating of the metal with a multi-step full chromate conversion coating to make it even more resistant to erosion.

BEL LIGHTING mainly uses AkzoNobel's ultra-durable polyester paints, designed for outdoor architecture requiring a high level of weather resistance and long-term color stability.

## Belgian stone

Of Belgian origin, it has been used for over 300 years in buildings throughout Belgian history. This is part of the story that the designers of Bel-Lighting have introduced into their production.

The blue stone is an irreplaceable material of exceptional quality, just like wood, it increases in value with time: erosion and patina continue to enhance & garnish.

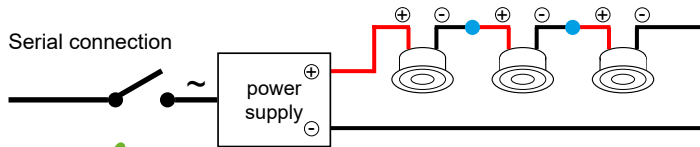
Our range in stone are labeled «real Belgian Hainaut Blue Stone» with the approval and technical certificate delivered by U. B.A.t.c

# CONNECTING CURRENT CONTROLLED LED LIGHTS: DO'S AND DON'TS

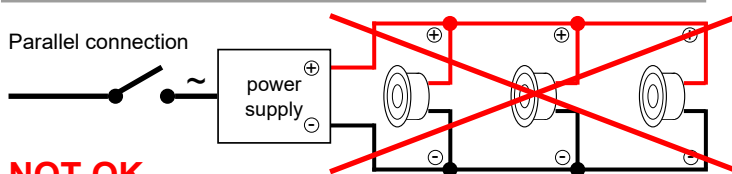
Some LED fixtures are current controlled (eg. 350mA, 500mA and 700mA). These require a continuous current. To turn the 220-240V mains voltage into current, you need a separate power supply, a current controlled power supply.

## Must be in series circuit

Current controlled LEDs can never be connected under voltage! Furthermore, they should always be connected in a series circuit. In series circuits there's only one current path. The current enters through the + and leaves the spotlight through the - to continue its way to the next spotlight. The current travels in one direction through all spotlights until they are all under current.



OK ✓



NOT OK

The external power supply needs to be adjusted to the number of spotlights and their power. With a constant current, the voltage will spread equally over the different spots.

## Setup simulation

Let's try to simplify the matter with an example. In this setup, we're going to install three LED spotlights, each with a power of 3,2W. The spotlights require a continuous current of 350mA.

### Calculate required voltage LED spotlight

Starting from the formula for electrical power, we can calculate the voltage needed by every separate spotlight. Power equals volts times amps.

### Formula for electrical power :

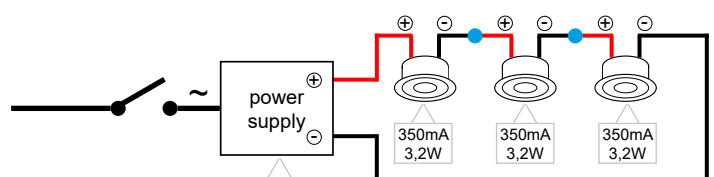
$$P \text{ (Watt)} = U \text{ (Volt)} \times I \text{ (Ampère)}$$

When we turn the formula around, we can calculate the voltage per spotlight:

$$U \text{ (Volt)} = \frac{P \text{ (Watt)}}{I \text{ (Ampère)}} \quad \longrightarrow \quad \frac{3,2 \text{ Watt}}{0,35 \text{ Ampère (350mA)}} = 9,14 \text{ Volt}$$

Every separate LED spotlight needs 9,14V to keep a constant current of 350mA. In total, the three spotlights will need 27,42V (= 3 x 9,14V). The total voltage of the spotlights needs to be within the output reach of the power supply.

So, in this case, a 350mA LED power supply with an output from 17 to 34V, will do just fine. This power supply has a minimal voltage output of 17V and a maximal voltage output of 34V. The total voltage required for the spotlights can't be over or under the output level of the power supply.



$$U(V) = \frac{P(W)}{I(A)} = \frac{3,2W}{0,35A(350mA)} = 9,14 \text{ Volt per spot}$$

Total voltage : 3 spotlights x 9,14V = 27,42 Volt

OK: within output range ✓

### Power supply delivers too much voltage for number of spots:

Let's say you want to connect only one 3,2W spotlight, you'll only need 9,14V. This is lower than the 17V minimal voltage of the power supply. This will result in a defect in the spotlight, because the voltage is too high.

The entire circuit of spotlights always needs to be tested at once. When the installer tests the power supply with each spotlight separately, the spotlight, which requires only 9,14V, immediately receives the full 17V minimum voltage. This too much, so the spot will malfunction.

### Power supply delivers too little voltage for number of spots:

When you connect 8 of these 3,2W spotlights to the same power supply, you'll need a total current of 73,12V (= 8 x 9,14V). This is higher than the maximal voltage of the power supply. The LED spotlights won't reach their full luminous efficiency. In other words, they will look 'dimmed'.

### Minimum and maximum number of spots on power supply:

For this 350mA power supply (17 – 34V) you need to install at least two of these 3,2W spotlights. The maximum capacity of the power supply is three of these spotlights. In case you want to install more of them, you'll need a power supply with a higher output.

### Never install current controlled LED spotlights under voltage

During the installation of current controlled LED spotlights, the LED power supply may **never be under voltage!** Neglect this and you'll risk damaging the LEDs. You'll even lose your warranty by doing so. In case of doubt, contact a professional electrician.

When LED power supplies are put under voltage, they start looking for the amount of voltage they need to distribute. When there are no spotlights connected, most power supplies will keep building up voltage up to their maximum.

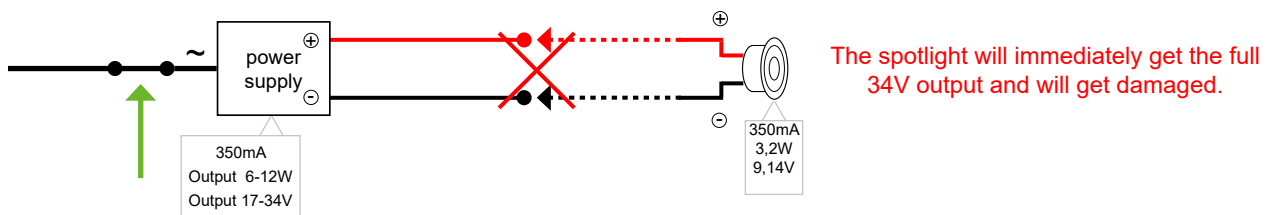
If you connect a LED spotlight to this fully charged power supply, it will immediately receive the maximum output voltage. If this is higher than the maximum voltage of the LED spotlight, the LED will get damaged. It only takes a split second to make this happen.

So, it's extremely important to switch off the voltage on your power supply while installing your LED spotlights.

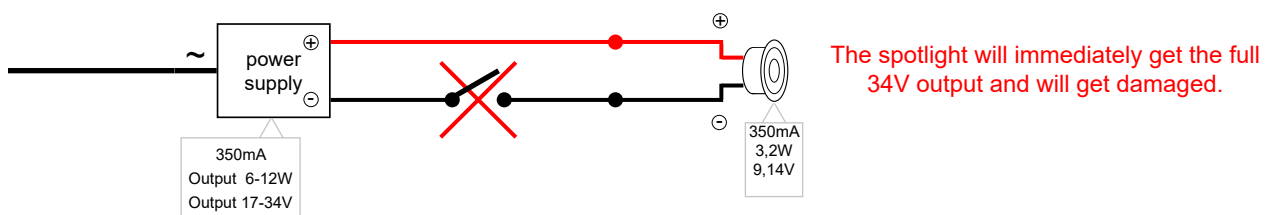
### Wrong installation :

Suppose we put a 350mA (17-34V) power supply under voltage. Then, we connect a 3,2W LED spotlight. The spotlight will immediately get the full 34V output. The maximum voltage for this 3,2W spotlight is only 9,14V (= 3,2W / 350mA), so the LED will get damaged.

You need to connect all your LEDs in advance, before putting your power supply under voltage. This way the power supply can build up to the required voltage.



The power supply can only be switched on the primary side i.e. before the 230V mains voltage comes in. Otherwise the LED will get damaged, just like in the situation above.



### Secured LED power supplies:

Some power supplies are secured against the above phenomenon. When this kind of power supply is put under voltage and no spotlights are connected, they won't give off their maximum voltage. Instead, they won't distribute any voltage at all.

The power supply will only start distributing voltage when the spotlights are connected and the power supply is restarted.

# RECOMMENDATIONS FOR OUTDOOR WIRING



Luminaires must be installed and connected by a qualified technician.

## Recessed floor lights

### THE CONNECTION

So that your recessed floor can work, you must naturally connect them to the mains. This connection must be protected against humidity, specified by the IP (International Protection) value of the product. This value has two numbers: the first number designates protection against solid objects and the second number designates protection against water and humidity.

Recessed floor luminaires are often installed in places subject to bad weather, so it is imperative:

- To opt for a connection solution with an IP68 rating.
- To seal the cable sheath and not the conductors.
- To use a recessing box when installed in the ground.

Errors to avoid:

- Use of undesignated IP20 connectors (photo 1) or adhesive tape (photo 2).
- The waterproof connection is not made on the cable sheath but on the conductors (photos 3 and 4).
- The resin or the insulating gel is not properly cast (photo 5).

Poor seals, even partials, will gather up water in the product through the cable. This phenomenon of rising water by «capillarity» damages the electrical components and it no longer allows the proper operation of the product.



1



2



3



4



5

## IP68 JUNCTION BOX

The safest way to do this, is to make the connection inside the junction box and fill this up with resin (or bicomponent gel). The casting resin will keep your connection and your floor uplighter completely free of water.

Making your connection in watertight connectors with cable glands is another possibility. However, this option is less safe. Chances are that water will still find its way.

Once the connection in the junction box is made and you've tested your spots multiple times, you can fill the junction box with resin. Don't forget to test your spots before casting the resin. Once the resin is solidified, you cannot make any more changes to your connection!



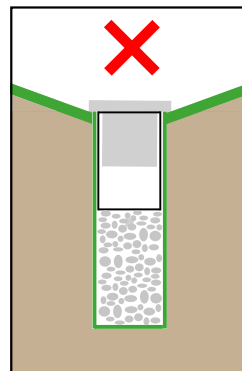
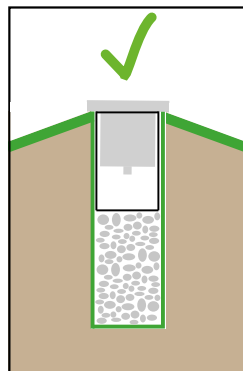
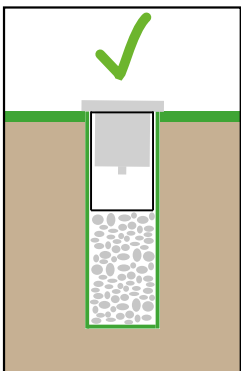
## SEALED CONNECTOR

This connector with cable glands can be used in the recess or under a wooden floor to make an IP68 waterproof connection between 2 or 3 flexible rubber cables type H07RN-F or equivalent. Once the connection has been made, this connector has the advantage of being completely removable.



## LOCATION

Never install your ground spots in a den. Install them on a flat or a higher surface.



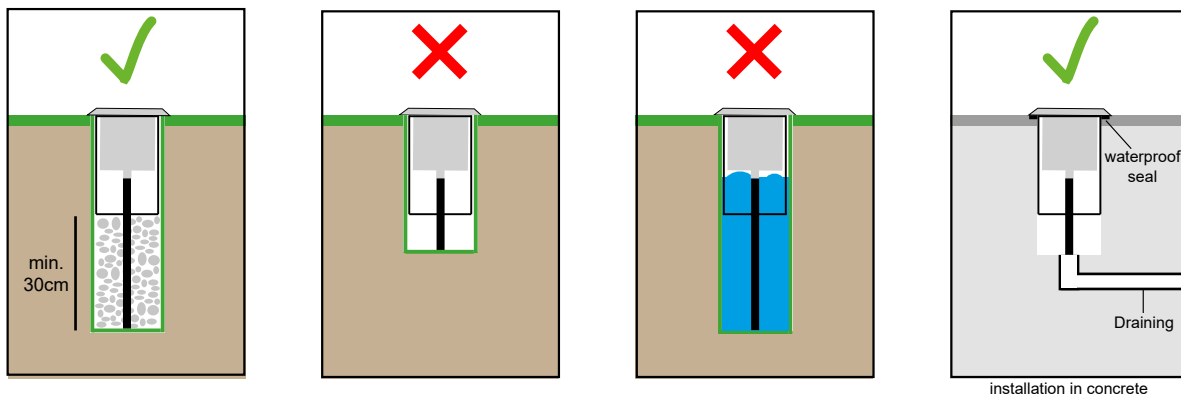
## THE DRAINING

### IP68 luminaires:

Drainage is not necessary, but it is important to know that these fixtures are intended to be permanently immersed only in clear water. They are not designed to be immersed in chlorinated water, seawater or any other aggressive environment.

### IP67 luminaires:

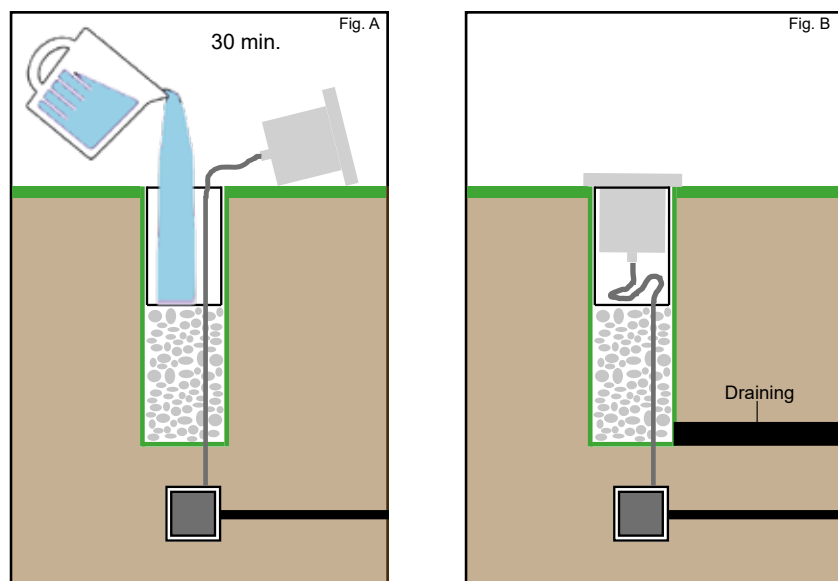
To ensure good drainage, install a layer of gravel with a minimum depth of 30cm under the recessed box.



We recommend to perform the following test:

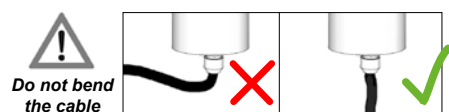
Fill the recessing box with water (Fig.A) and make sure that it has completely dissolved in 30min.

Otherwise, additional drainage is required (Fig.B)

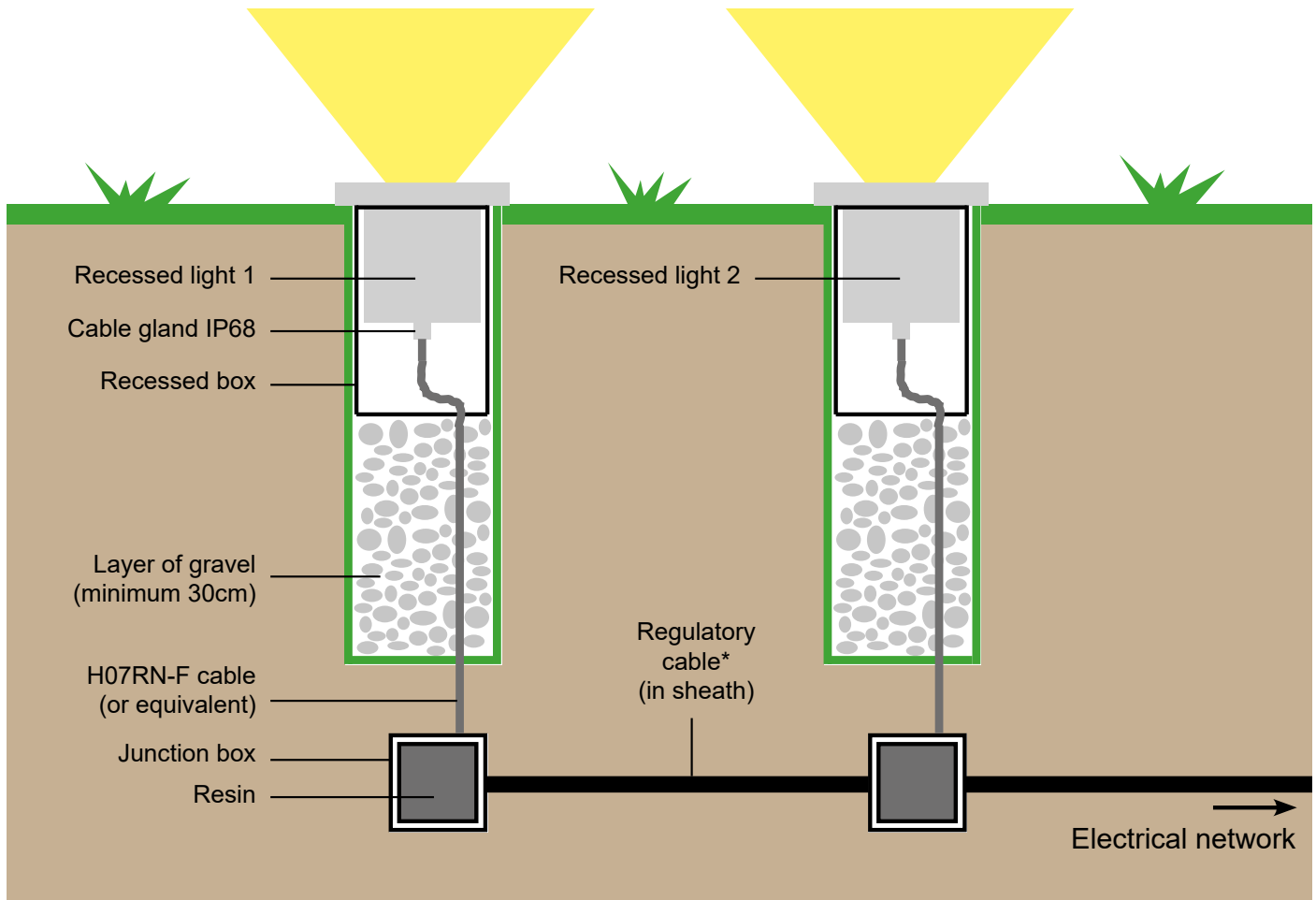


## IMPORTANT

To ensure a good seal of the IP68 cable gland, it is important to leave a sufficient length and not to «bend» the cable just at the exit of the cable gland.



## ILLUSTRATION OF A CONNECTION



\* see national regulations.

### THE CABLE

To ensure the tightness of the connection, with waterproof connectors or junction box, use a flexible rubber power cable type H07RN-F or equivalent. A flexible, rubber cable is much easier to seal off against water. When the swivel of the ground spot is fastened to the cable, the rubber cable sheath will function as a grommet. Nowadays, the cable will often be already attached to the ground spot. In this case, you don't need a separate cable.

Caution: if there's a cable attached to the ground spot, don't remove it! By doing this, you'll lose your warranty.

### THE DEPTH OF THE ELECTRICAL SHEATH

First of all, it is necessary to refer to national regulations.

Here is what we recommend:

- For an area not accessible to cars:

The electrical conduits must be buried at a minimum depth of 50 cm.

- For an area accessible to cars or under the sidewalks:

Electrical conduits must be buried to a minimum depth of 80 cm.

The buried electrical circuits must circulate in a sheath that can withstand shocks and crushing.

When covering these sheaths, it will be necessary to use soil or sand.

Under no circumstances should heavy stones be used to degrade the buried electric sheath with settlement.

### INTEGRATION IN A WOOD FLOOR OR TERRACE

The drilling of the wood blades will be at the recommended drilling diameter (see product sheet, manual, etc ...). The depth under the floor must allow to embed the spot and the waterproof connections. It is also necessary to ensure that there is sufficient space under the recess to prevent stagnation of the water and not to «bend» the cable just at the exit of the cable gland. Otherwise, drainage will be done.

# THE CONDENSATION

With the exception of a cause due to a bad connection, it is first of all a natural phenomenon.

The main cause is the mounting of the luminaires in a humid atmosphere, the product being so tight that as soon as the saturation point is reached, the water condenses. When warm moist air comes into contact with the cold, the water inside the luminaire becomes condensation. When the water evaporates, it creates an ascending water vapor that can influence the electrical components. Sometimes this water vapor can cause the electrical installation to trip.

A rapid temperature change also creates a pressure difference which can cause condensation.

Pressure, temperature and humidity of the air are in a constant state of change and this has a not insignificant effect. Regardless of the tightness of the luminaire, this results in different pressure conditions between the interior of the enclosure and the environment causing the transport of the air that condenses in the luminaire.

The BEL Lighting warranty does not cover condensation, except if it is proven that the water infiltration is due to a defect of the lamp. In case of condensation, you must check the following points:

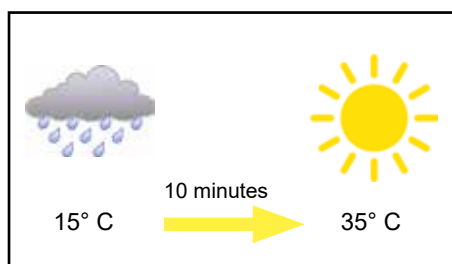
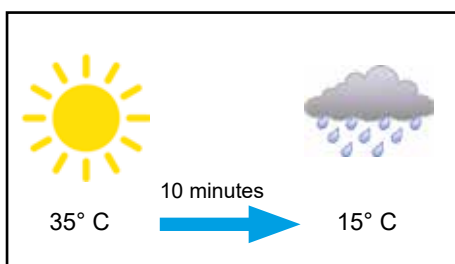
- Is the lamp properly installed?
- Are the seals sealed and the screws and glass tight enough?
- For bollard, it is possible that the humidity coming up from the ground is at the origin of the formation of the condensation.

On most of our bollards and wall lights, we use «sandblasted» glasses, which has the effect of making visible the drops of water due to condensation (see photo) and make the glass more transparent.

It is recommended when installing:

- Realize assembly and wiring in very dry weather
- Check the tightening condition of all clamping parts and cable glands
- Comply with the recommendations for outdoor wiring

**If in doubt, always refer to a professional.**



# MAINTENANCE

Regular cleaning is recommended with appropriate products to preserve the appearance and integrity of the luminaire surface. Never use harsh cleaning agents or chemical solutions that may attack the surface.

We recommend the use of a damp cloth (microfiber preferably) or chamois leather for the maintenance and cleaning of parts in stainless steel, brass or copper.

During maintenance, if you find:

- A broken, cracked or unstuck protective glass
- Deterioration in the power cable
- a deteriorated seal

Then the luminaire is unusable, and the damaged parts must be repaired only with original spare parts.

**Examples of luminaires before and after cleaning:**

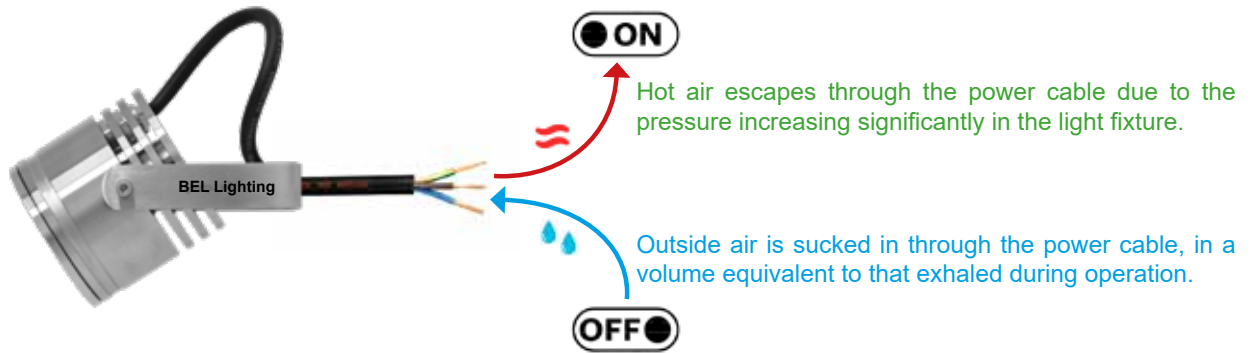


Stainless steel



Brass

# BLOCK WATER INFILTRATION THROUGH THE POWER CABLE



Scan the QR code  
to access the document

## APPROVED CONNECTION

ACCESSORIES TO PREVENT WATER INFILTRATION THROUGH THE POWER CABLE



# Grondstoffen

## Inox 304L en 316L

Inox is een uniek materiaal met een uitzonderlijke weerstand en makkelijk recycleerbaar. Zijn functionaliteit en zijn roestvrij staal is een uniek materiaal met een uitzonderlijke weerstand en eenvoudig te recycleren. De functionele waarden maakt het mogelijk om te worden gebruikt, niet alleen voor grote industriële projecten en prestigieuze, maar ook voor iedere tak van industrie (auto industrie, voeding, ...). Roestvrij staal kan ongewijzigd blijven tientallen jaren voordat zij behandeld dient te worden. Bovendien door zijn extreme weerstand voldoet hij aan alle mechanische en thermische sterkte. RVS zelfbescherming door te reageren op atmosferische zuurstof en het creëren van een beschermende membraan. De 304L inox kan vlekken oxidatie (iconische) vertonen die verdwijnt na reiniging. Het nikkel gehalte en chroom gehalte verhoogt de weerstand tegen corrosie. Let op roestvrij staal die is behandeld door instrumenten zoals draaibanken, CNC, enz.. wordt als gevolg van elektrische ladingen die zich ontwikkelde tijdens de behandeling als gevolg van wrijving gemagnetiseerd. Visueel, is inox een van de mooiste materialen, bekend om de duurzaamheid van zijn ontwerpen, hij word gerespecteerd door architecten en interieur ontwerpers. Gemakkelijk te combineren, is dit een uitzonderlijk materiaal.

### **De gedraaide Inox of RVS producten 304L – geborsteld uiterlijk (Kleurcode = 04):**

Kunnen zowel binnen als buiten gebruikt worden maar mogen niet in een vuile atmosfeer geplaatst worden ( bv. Industriële zone, haven, zwembad, chemische industrie enz.... Uw project moet op minstens 20km verwijderd zijn van de kust.

Voor een optimale installatie in een agressieve omgeving stellen we het volgende voor:

-versie High (code = 04EP) = Inox 304L geborsteld uiterlijk + Elektrolytisch polijsten.

Aarzel niet een gepersonaliseerde offerte aan te vragen.

### **De gedraaide Inox of RVS producten 316L – geborsteld uiterlijk (Kleurcode = 16):**

Deze kunnen gebruikt worden in agressieve omgevingen ( bv. aan zee, aan een zwembad, enz....) maar let op, dit sluit niet uit dat er zich roestvlekken kunnen vormen indien het toestel niet regelmatig gereinigd word. (vooral in een chloorumgeving of geïodeerd, of als de producten blootgesteld worden aan extreem weer)

Voor een optimale installatie in een agressieve omgeving stellen we het volgende voor:

-versie High+ (code = 16EP) = Inox 316L geborsteld uiterlijk + Elektrolytisch polijsten.

Aarzel niet een gepersonaliseerde offerte aan te vragen.

### Elektrolytisch polijsten (oppervlaktebehandeling van roestvast staal)

Inox of RVS genaamd ( 304L of 316L ) geïnstalleerd in een maritieme omgeving ( tot 20 km verwijderd van de zee ) is gedoemd om vuil te worden. Vuil en andere microscopische deeltjes die met ijzer geladen zijn kunnen zich vast zetten op het oppervlak en samen met de zoute zee-nivel hun oxidatie in vorm van roestvlekken versnellen. Na de elektrolytische behandeling kunnen stof en spray zich niet meer vast zetten. Deze elektrochemische behandeling verwijdert onzuiverheden en ijzer en vermindert het oppervlak door micro-ontbraming. Het oppervlak, gladder en rijker aan chroom krijgt een schitterende glans en een optimale duurzame corrosiebestendigheid.

Verhoogde corrosiebestendigheid: voor de chemische en farmaceutische industrie, voor buiten- en architecturale toepassingen, voor boten en jachten, voor zwembaden en andere situaties van put- en spleetcorrosie.

Aarzel niet ons een persoonlijke prijsofferte te vragen. Deze behandeling is mogelijk op het grootste deel van ons gamma armaturen in inox 304L en 316L.

## Koper

Samen met goud, is koper het enige metaal dat van nature is gekleurd. Het natuurlijke aspect van dit metaal is rood, een kleur die hem een metaalglans geeft. Het heeft een thermische en elektrische geleidbaarheid en uitstekende weerstand tegen erosie door water, het maritieme milieu en organische zuren. Het heeft geen magnetische eigenschappen. Het koper beschermt zichzelf door het ontwikkelen van een natuurlijke laag van bruin-groen kleur bij blootstelling aan de externe omgeving.

## Messing

Dit is een legering van koper en zink. Harder metaal dan koper, heeft een natuurlijke geelachtige kleur. Messing creëert een natuurlijke laag van bruin-zwart op zijn oppervlak, dit zorgt voor zelfbescherming tegen corrosie bij blootstelling aan de externe omgeving.

## Aluminium (serie 6000)

Aluminium legering van silicium en magnesium, gebruiken we vooral voor onze productie profielen van verschillende diktes van de 6000-serie. Het heeft een zeer goede decoratieve gedrag, maar ook een uitzonderlijke weerstand tegen atmosferische erosie.

### Behandeling van het aluminium

● **Anodiseren** : de omvorming van het aluminium oppervlak en het creëren van een kunstmatig laag oxide.

De procedure gebeurt onder gecontroleerde omstandigheden, deze oxidelaag is zeer consistent en hard om het aluminium te beschermen.

Op al onze producten met kleurcode "32" voeren we een standaard anodisatie uit van **15 microns**.

Voor een optimale installatie in een agressieve omgeving stellen we het volgende voor:

Dubbele heldere anodisatie (code = 32D) of zwart anodisatie (code = 02A): **20+ microns "sea side"**

Deze dubbele anodisatie wordt aanbevolen voor installatie in agressieve omgevingen (aan zee, zwembad, enz...)

Andere kleuren met **20+ micron anodisatie "sea side"** zijn brons (33), mat goud (34), groen (35) en bordeaux (36).

Aarzel niet een gepersonaliseerde offerte aan te vragen.

### **Kleurvariatie op verlichtingsarmaturen van geanodiseerd aluminium**

Onze verlichtingsarmaturen met geanodiseerde aluminiumafwerking worden met de grootste zorg geproduceerd om zowel esthetiek als prestaties te garanderen. Het is echter belangrijk om te vermelden dat er lichte kleurvariaties kunnen optreden, zelfs op hetzelfde armatuur. Deze verschillen zijn een natuurlijk resultaat van het anodisatieproces, waarbij het materiaal op verschillende manieren kan reageren. Deze variaties dragen bij aan de authenticiteit en het unieke karakter van elk armatuur. Heeft u vragen of wenst u meer informatie over de afwerking van onze producten? Aarzel dan niet om contact met ons op te nemen.

● **Elektrostatische verf** : Is een polyester verflaag. Een fase waarin het herstel van het metaal gebeurt door een complete meertraps chromaat omzettingcoating

BEL LIGHTING maakt hoofdzakelijk gebruik van AkzoNobel's ultra duurzame polyesterverf ontworpen voor buiten architectuur die een hoge weersbestendigheid en langdurige kleurstabiliteit vereist.

## Belgische blauwe steen

Van Belgische oorsprong, is gebruikt sinds meer dan 300 jaar in gebouwen doorgaan de Belgische geschiedenis. Dit is waarom de ontwerpers van Bel-Lighting dit hebben geïntroduceerd in hun productie.

De blauwe steen is een onvervangbaar materiaal van uitzonderlijke kwaliteit en, net als hout, stijgt de waarde in de tijd: de erosie zal blijven verfraaien.

Onze armaturen zijn met het label «echt Belgisch Blauwe Hardsteen uit Henegouwen» met de goedkeuring en technische certificaat verleend door het U.B.A.t.c.

# AANBEVELINGEN VOOR EXTERNE KABEL AANSLUITING



Armaturen moeten door een gekwalificeerde technicus worden geïnstalleerd en aangesloten.

## De grondspots.

### DE AANSLUITING

De toestellen dienen geplaatst en aangesloten te worden door een gekwalificeerde installateur.

Om uw grondspots te laten functioneren dienen deze aan het net aangesloten te worden.

Deze aansluiting dient met een grote bescherming tegen vochtigheid te gebeuren, beschreven als IP waarde (International Protection) van het toestel.

Deze waarde wordt aangegeven door twee cijfers : het eerste cijfer geeft de bescherming tegen vaste voorwerpen, het tweede cijfer geeft aan in welke mate het toestel beschermd is tegen water.

De grondspots zijn veel onderworpen aan het slechte weer, een goede aansluiting is dus van groot belang:

- Kies voor een aansluiting met IP68 waarde.
- De waterdichtheid maken op de volledige kabel en niet alleen op de draden.
- Gebruik een inbouw behuizing als de spots in de grond geplaatst worden.

Fouten te vermijden :

- Gebruik van connectoren met een IP20 waarde zonder giethars (foto 1) of plakband (foto 2).
- De waterdichte verbinding is niet gebeurd op de kabelmantel maar enkel op de stroom draden (foto 3 en 4).
- Het opgiethars of de gel is niet goed gelopen (foto 5).

Een slechte waterdichte verbinding, zelf gedeeltelijk zal ervoor zorgen dat er waterinfiltratie in het toestel via de kabelmantel zal zijn . Dit fenomeen van waterinfiltratie via de kabelmantel « capillariteit » genoemd zal ervoor zorgen dat bepaalde onderdelen niet meer normaal zullen functioneren.



1



2



3



4



5

## AFTAKDOOS IP68

De beste en meest efficiënte manier om een ondergrondse verbinding te maken is een aftakdoos IP68 die opgegoten is met giethars of met 2 componenten isolerende gel te gebruiken.

Dit giethars bestaande uit twee componenten zorgt ervoor dat de verbinding en uw spot volledig beschermd zal zijn tegen vocht.

Een andere mogelijkheid is waterdichte connectoren met wartels te gebruiken.

Maar deze verbinding geeft minder zekerheid daar waterinfiltratie niet onmogelijk is.

Eens u de aansluiting in uw aansluitdoos heeft verricht en enkele malen de spots heeft getest, kan je de aansluitdoos opgieten met giethars. Vergeet zeker niet deze test eerst uit te voeren daar eens het giethars in de aansluitdoos gelopen is, is er geen weg terug meer voor deze aansluiting.



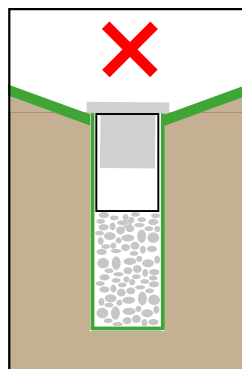
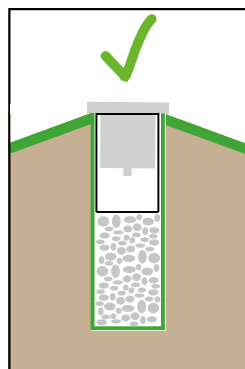
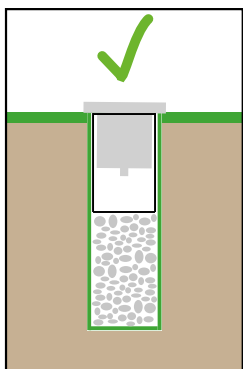
## WATERDICHTTE CONNECTOR

Deze connector met wartels wordt gebruikt in inbouwputten of onder houten terrassen om een waterdichte verbinding IP68 te maken. Op deze manier kan men 2 of 3 soepele rubberkabels type H07RN-F of gelijkaardig met elkaar verbinden. Het enige voordeel bij gebruik van dit type verbinding is dat ze steeds demonteerbaar blijft.



## PLAATSING

De grondspot met een waarde lager dan IP68 mag nooit in een kuil geplaatst worden, maar moet altijd op een vlakke of verhoogde ondergrond worden geplaatst.



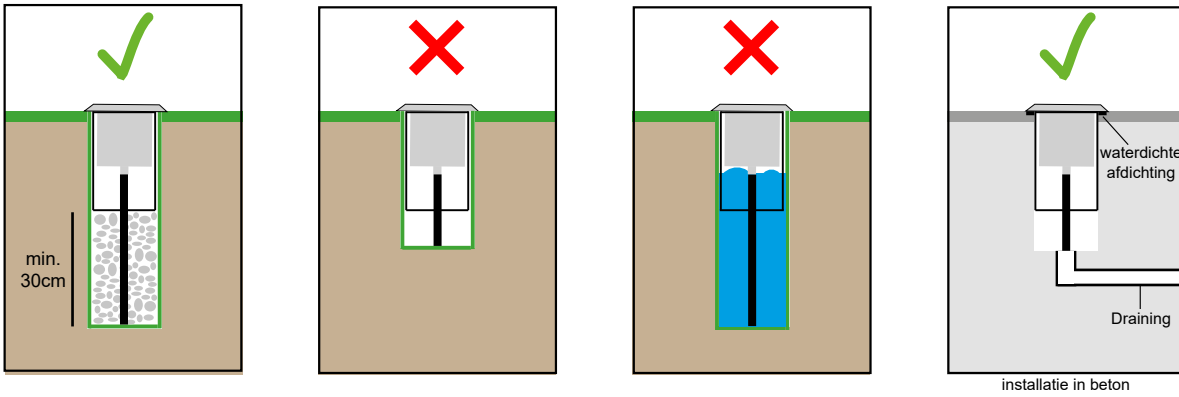
## DE DRAINAGE

Toestellen met een IP68 waarde:

Een drainage bij deze toestellen is niet nodig, wel moet men rekening houden dat deze toestellen gebouwd zijn om constant onderwater gebruikt te worden in natuurlijk water. Deze toestellen zijn niet gemaakt voor gebruik te worden in chloor, zout water of andere agressieve omgevingen.

Toestellen met een IP67 waarde:

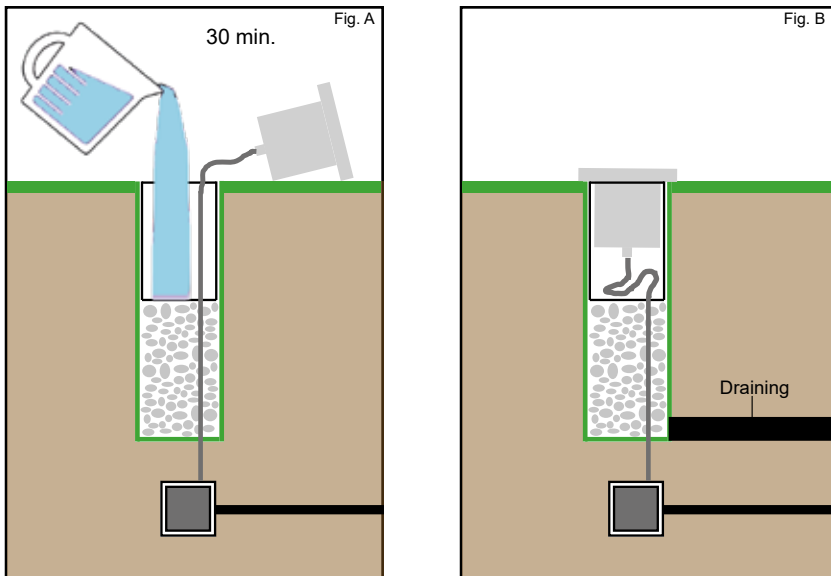
Voor een goede drainage gelieve een laag kiezel van minimaal 30cm diepte te voorzien onder de inbouwpot van de grondspot.



We stellen u voor volgende test te doen:

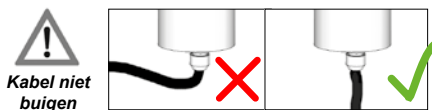
Vul de inbouwpot met water (Fig.A) met de zekerheid dat het water allemaal weg is na 30min.

Is dit niet het geval dan dient u voor een extra drainage te zorgen. (Fig.B)

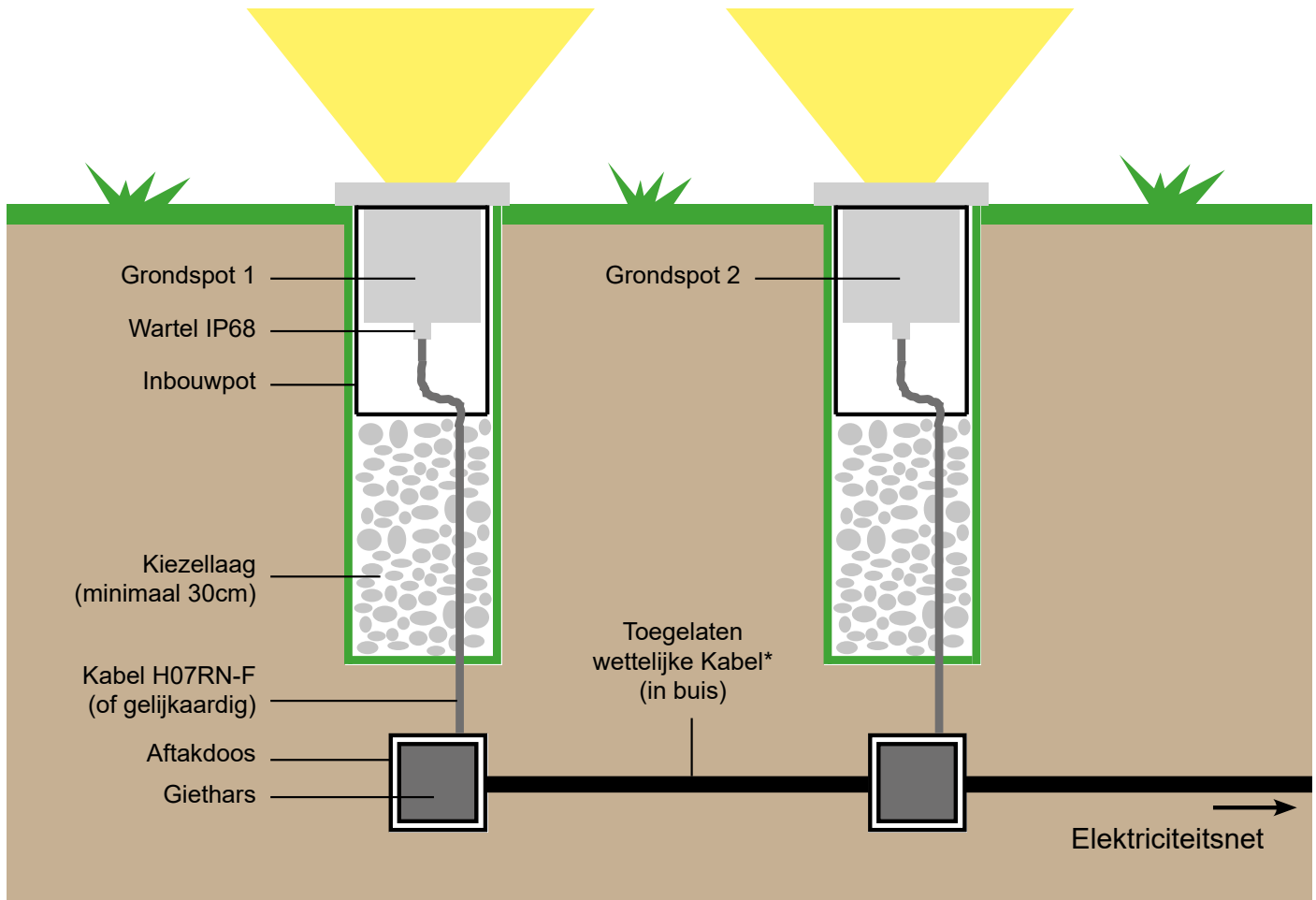


## BELANGRIJK

Om een goede waterdichtheid IP68 te hebben aan de wartel dient u ervoor te zorgen dat de kabel lang genoeg is en niet gebroken word aan de uitgang van de wartel.



## VOORBELD VAN EEN AANSLUITING



\* zie plaatselijke voorschriften

### DE KABEL

Voor een waterdichte verbinding te garanderen met de connector of een waterdichte aftakdoos dient u gebruikt te maken van een soepele rubberkabel van het type H07RN-F of gelijkaardig. Een soepele rubber kabel is veel beter omdat de kabelmantel ook dient als extra afdichting als de wartel in de grondspot wordt vastgedraaid.

Actueel is de kabel reeds vast aangesloten aan de grondspot bij levering, u dient dus geen kabel aan te kopen.

Opgelet: Verwijderd nooit de kabel die bij de productie eraan geplaatst geweest is.

Doe je dit wel verlies je de garantie.

### KABELDIEPTE VAN HET ELEKTRICITEITSNET

Eerst en vooral dient men de landelijke voorschriften op te volgen.

Hierbij onze aanbevelingen:

- Voor een omgeving waar geen voertuigen rijden:  
Moeten de verbindingkabels minimaal 50 cm onder de grond zitten.

- Voor een omgeving waar wel voertuigen rijden en onder voetpaden:  
Moeten de verbindingkabels minimaal 80 cm onder de grond zitten.

De kabels moeten onder de grond in een wachtbuis geplaatst worden van het type TPC, dit zijn buizen vervaardigd uit polyethyleen. De gladde binnenwand van de buis garandeert een snelle en efficiënte doorvoering van kabels. Tegelijkertijd zorgt de geribbelde buitenzijde van de buis voor stevigheid en flexibiliteit. Het resultaat van dit dubbelwandige concept is een sterke robuuste en schokbestendig buis, die licht van gewicht is en relatief buigzaam.

Bij het dichtleggen van de gegraven kanalen waarin deze buis zich bevindt dient men gebruik te maken van grond of zand waarin geen keien of harde voorwerpen zitten daar deze de beschermbuizen nutteloos zouden kunnen beschadigen.

### INTEGRATIE IN EEN PLANKENVLOER OF HOUTEN TERRAS

De te voorziene inbouwopening zal gebeuren op basis van de opgegeven diameter (zie product fiche, bijgeleverde nota, enz...). Er dient voldoende diepte te zijn onder de vloer zodat de toestellen kunnen ingebouwd worden en dat er een waterdichte verbinding kan plaats vinden. Men dient er ook rekening met te houden dat er onder de grondspot voldoende vrije ruimte is waar geen water kan blijven staan en dat de kabel aan de warteluitgang niet "gebroken" wordt. Zo dit niet is dient er een drainage voorzien te worden.

# CONDENSATIE VORMING

Bij uitzondering te wijten aan een slechte verbinding is condensatie vorming een normaal natuur fenomeen.

De belangrijkste reden van deze condensatie vorming is de plaatsing van de toestellen in een vochtige omgeving. De toestellen zijn zo waterdicht dat eens het verzadiging punt bereikt wordt er onmiddellijk condensatie gevormd wordt. Van zodra er warme vochtige lucht in contact komt met een koude externe temperatuur zal de warme vochtige lucht die zich binnenin het toestel bevindt condenseren. Als het water verdampt geeft men vorming van stoom die storingen kan geven aan bepaalde elektrische componenten in het toestel. Zelden kan hierdoor ook de verliesstroomschakelaar uitvallen.

Een snelle wijziging in temperatuur gaat ook gepaard met een verandering in druk dat kan leiden tot condensatie vorming. Druk, temperatuur en vochtigheid in de lucht veranderen constant en dat mag niet vergeten worden. Ongeacht de waterdichtheid van de toestellen leidt dit tot verschillen in drukvoorwaarden tussen de behuizing binnenin het toestel en de omgeving waardoor de getransporteerde lucht in het toestel condenseert.

De garantie van Bel Lighting dekt geen condensatie tenzij bewezen kan worden dat het binnendringen van water ten gevolge een productie fout is.

Bij condensatie dient u volgende actie te ondernemen :

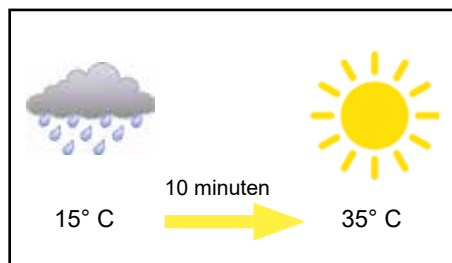
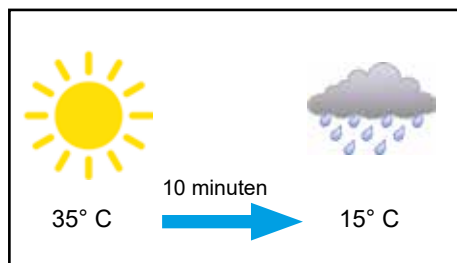
- Is het toestel goed geïnstalleerd geweest ?
- Zijn de dichtingen waterdicht en zijn de vijzen en het glas voldoende aangetrokken ?
- Indien het verlichtingspalen zijn, bestaat de mogelijkheid dat de vochtigheid uit de grond verantwoordelijk is voor de vorming van condensatie.

Op een groot deel van onze verlichtingspalen of wandtoestellen maken we gebruik van "fijn gezandstraald" glas, wat als nadeel heeft dat bij condensvorming de druppels water beter zichtbaar zijn omdat het glas doorzichtig wordt ( zie foto ).

Het wordt aangeraden bij installatie:

- De plaatsing en de bekabeling uit te voeren bij zeer droog weer
- Alle dichtingen, vast te zetten delen en de wartels te controleren
- Goed de voorschriften voor buiten aansluitingen te respecteren

**Bij twijfel neem contact met een professioneel installateur.**



## ONDERHOUD

Een regelmatige reiniging met voorgeschreven producten wordt aangeraden om de uitstraling van de oppervlakte van de toestellen als nieuw te behouden. Nooit agressieve reinigingsproducten of chemische oplosmiddelen gebruiken die het oppervlakte van de toestellen zou kunnen schaden.

Voor het reinigen van producten als koper, RVS en messing adviseren wij een gewone vochtige doek (bij voorkeur microvezel) of zeem te gebruiken.

Indien u volgende zaken vaststelt bij onderhoud:

- Een gebroken beschermglas, gebarsten of losgekomen
- Een beschadigde voedingskabel
- Een beschadigde dichtingsring

Dan is het toestel niet meer bruikbaar en dienen de beschadigde onderdelen vervangen en hersteld te worden door originele vervangonderdelen.

**Voorbeeld van toestellen voor en na reiniging:**



INOX



MESSING

# BLOKKEREN VAN HET OPSTIJGENDE WATER

VIA DE VOEDINGSKABEL



Scan de QR-code om het document te openen

## GOEDGEKEURDE AANSLUITINGSAccessoires

OM WATERINFILTRATIE VIA DE STROOMKABEL TE VOORKOMEN



# Matières premières

## Inox 304L ou 316L

L'acier inoxydable est un matériau unique d'une résistance exceptionnelle et facilement recyclable. Ses valeurs fonctionnelles et sa valeur monétaire lui permettent d'être utilisé non seulement pour des projets industriels majeurs et prestigieux, mais également pour toute forme d'industrie (automobile, alimentaire, ...). L'inox peut rester inchangé des décennies avant de devoir subir un quelconque traitement. En plus de son extrême résistance à la corrosion, il répond aux exigences de toutes les résistances mécaniques et thermiques. L'inox s'auto-protège en réagissant à l'oxygène atmosphérique en créant une membrane résistante de protection. Le 304L inoxydable (L= faible en carbone), peut présenter des taches d'oxydation qui disparaissent grâce au nettoyage. Sa teneur en nickel et chrome principalement augmente sa résistance à la corrosion. Attention, l'inox qui a subi un traitement par des instruments comme tours, CNC, etc... se magnétise en raison des charges électriques qui se sont développées pendant le traitement en raison du frottement. Visuellement, l'inox est l'un des plus beaux matériaux, connu pour la durabilité de ses designs, il l'emporte haut la main chez les architectes et les décorateurs. Facilement combinable, c'est un matériau exceptionnel.

### **Les produits en Inox 304L tourné - aspect brossé (code couleur = 04):**

Ils sont utilisables à l'intérieur et à l'extérieur, mais ne doivent pas être posés dans une atmosphère polluée (Zone industrielle, portuaire, piscine, industrie chimique, étable, etc...). Le lieu de votre projet doit être situé à plus de 20km des côtes.

Pour une installation optimale en milieu agressif, nous proposons:

- version High (code = 04EP) = Inox 304L aspect brossé + Electropolissage

N'hésitez pas à demander une offre personnalisée

### **Les produits en Inox 316L tourné - aspect brossé (code couleur = 16):**

Ils sont utilisables en milieux agressifs (bord de mer, bord de piscine, etc.), mais attention, ceci n'exclut pas l'apparition de quelques points de rouille si le luminaire n'est pas entretenu régulièrement (surtout en milieux chlorés et iodés, ou si les produits sont exposés à des fortes intempéries)

Pour une installation optimale en milieu agressif, nous proposons:

- version High+ (code = 16EP) = Inox 316L aspect brossé + Electropolissage

N'hésitez pas à demander une offre personnalisée

### L'électropolissage sur l'inox

L'inox (304L ou 316L) installé dans un environnement marin (jusqu'à 20km de la mer) est condamné à devenir terne. Les saletés et autres poussières microscopiques chargées en fer vont pouvoir s'y stocker et se mélanger aux sels des embruns de bord de mer et accélérer ainsi leur oxydation en tâches de rouille.

Après traitement électropolissage, les poussières et les embruns ne peuvent plus se stocker. Ce traitement purement électrochimique enlève les impuretés et le fer et diminue la surface par un micro-ébavurage. La surface, plus lisse et plus riche en chrome, obtient un éclat brillant et une résistance à la corrosion optimale et durable.

Ce procédé est utilisé pour l'industrie chimique et pharmaceutique, pour des applications extérieures et d'architecture, des bateaux et yachts, pour piscines, pour les situations maritimes et d'autres applications faisant face à la corrosion par piqûres.

N'hésitez pas à demander une offre personnalisée car ce procédé est réalisable sur la plupart de nos luminaires en inox 304L ou 316L.

## Cuivre

Avec l'or, le cuivre est le seul métal naturellement coloré. L'aspect naturel de ce métal a une couleur rouge ce qui lui donne un éclat métallique lorsqu'il brille. Il a une conductibilité thermique et électrique et une résistance excellente à l'érosion d'eau, l'environnement marin et aux acides organiques. Il ne présente pas d'attribut magnétique. Le cuivre s'auto-protège en développant une couche naturelle de couleur brune/verte lorsqu'il est exposé à l'environnement extérieur.

## Laiton

C'est un alliage de cuivre et de zinc. Métal plus dur que le cuivre, il a un aspect naturel jaunâtre. Le laiton crée une couche naturelle de couleur brune/noire à sa surface pour s'auto-protéger de la corrosion lorsqu'il est exposé à l'environnement extérieur.

## Aluminium (série 6000)

Alliage d'aluminium de silicium et de magnésium, nous utilisons principalement pour notre production des profilés de différentes épaisseurs de la série 6000. Il présente une très bonne conduite décorative, mais aussi une résistance exceptionnelle à l'érosion atmosphérique.

### Traitements de l'aluminium

● **Anodisation** : c'est la transformation de la surface de l'aluminium et la création d'une couche artificielle d'oxyde.

La procédure se fait sous des conditions absolument contrôlées et ainsi cette couche d'oxyde est très cohérente et dure pour protéger l'aluminium.

Sur l'ensemble de nos produits avec le code couleur «32», nous effectuons une anodisation standard égale à **15 microns**.

Pour une installation optimale en milieu agressif, nous proposons:

double anodisation claire (code = 32D) ou noire (code= 02A): **20+ microns «sea side»**

Cette double anodisation est recommandée pour une installation en milieu agressif (bord de mer, bord de piscine, etc.)

Les autres couleurs avec une anodisation **20+ microns « sea side »** sont le bronze (33), doré mat (34), vert (35) et bordeaux (36).

N'hésitez pas à demander une offre personnalisée.

### **Variation de teinte sur les luminaires en aluminium anodisé**

Nos luminaires en finition aluminium anodisé sont le fruit d'un processus de fabrication soigné, visant à garantir à la fois performance et esthétique. Cependant, en raison des caractéristiques propres au procédé d'anodisation, de légères variations de teinte peuvent apparaître, même sur un même produit. Ces différences de teinte sont naturelles et résultent de la manière dont le matériau réagit aux différentes étapes du traitement. Ces variations contribuent à l'authenticité et au caractère unique de chaque luminaire. Si vous avez des questions ou souhaitez davantage d'informations sur la finition de nos produits, n'hésitez pas à nous contacter.

● **Peinture électrostatique** : c'est une couche polyesterique de peinture. Le stade antérieur est le recouvrement du métal avec un revêtement de conversion au chromate complet à plusieurs étapes afin qu'il soit encore plus résistant à l'érosion.

BEL LIGHTING utilise principalement des peintures polyester ultra durables du fabricant AkzoNobel, conçues pour l'architecture extérieure nécessitant un haut niveau de résistance aux intempéries et une stabilité de la couleur à long terme.

## Pierre bleue belge

D'origine belge, elle est utilisée depuis plus de 300 ans dans les constructions au travers de l'histoire belge. C'est donc une partie de cette histoire que les designers de Bel-Lighting ont introduit dans leur production.

La pierre bleue constitue une matière irremplaçable d'une qualité exceptionnelle et qui, tout comme le bois, augmente en valeur avec le temps : l'érosion et la patine continuent à l'embellir.

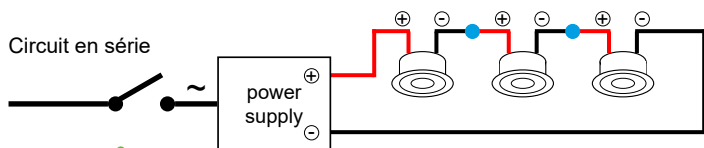
Nos luminaires portent l'étiquette « véritable Pierre Bleue belge du Hainaut » avec l'approbation technique et le Certificat accordé par l'U.B.A.t.c.

# RACCORDEMENT DE SPOTS LED COMMANDÉS EN COURANT : À FAIRE ET À NE PAS FAIRE

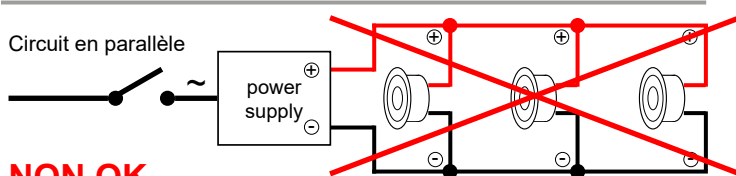
Certains luminaires LED sont commandés en courant (par ex. 350 mA, 500 mA, 700 mA et 1050 mA). Ceux-ci exigent un courant continu. Pour transformer la tension de secteur 230 V en courant, il faut une alimentation électrique séparée, une alimentation commandée en courant.

## Circuit série obligatoire

Les LED commandées en courant ne peuvent jamais être connectées sous tension ! De plus, elles doivent toujours être connectées dans un circuit en série. Dans les circuits en série, il n'y a qu'un chemin de courant. Le courant entre par le + et quitte le spot par le - pour continuer son chemin jusqu'au spot suivant. Le courant circule dans une direction à travers tous les spots jusqu'à ce qu'ils soient tous alimentés.



OK ✓



NON OK

L'alimentation électrique externe doit être ajustée au nombre de spots et à leur puissance. Avec un courant constant, la tension sera répartie uniformément entre les différents spots.

## Simulation de configuration

Essayons de simplifier les choses avec un exemple. Dans cette configuration, nous allons installer trois spots LED, chacun d'une puissance de 3,2 W. Les spots exigent un courant continu de 350 mA.

Calculez la tension requise du spot LED

En appliquant la formule de l'électricité, on peut calculer la tension nécessaire pour chaque spot séparé. Le courant équivaut à la tension fois l'ampérage.

Formule du courant électrique :

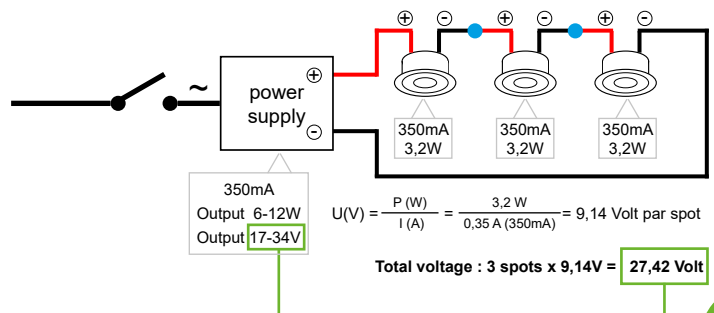
$$P \text{ (Watt)} = U \text{ (Volt)} \times I \text{ (Ampère)}$$

Lorsqu'on inverse la formule, on peut calculer la tension par spot :

$$U \text{ (Volt)} = \frac{P \text{ (Watt)}}{I \text{ (Ampère)}} \quad \longrightarrow \quad \frac{3,2 \text{ Watt}}{0,35 \text{ Ampère (350mA)}} = 9,14 \text{ Volt}$$

Chaque spot LED individuel a besoin de 9,14V pour maintenir un courant constant de 350 mA. Au total, les trois spots auront besoin de 27,42V (= 3 x 9,14V). La tension totale des spots doit être comprise dans la plage de tension de l'alimentation électrique.

Par conséquent, dans ce cas, une alimentation LED de 350 mA d'une tension de 17 à 34V conviendra parfaitement. Cette alimentation électrique présente une tension minimale de 17V et une tension maximale de 34V. La tension totale requise pour les spots ne peut être supérieure ou inférieure au niveau de tension de l'alimentation électrique.



OK: dans la plage de tension ✓

## L'alimentation électrique fournit trop de tension pour le nombre de spots :

Imaginons que vous voulez connecter uniquement un spot de 3,2 W : vous aurez seulement besoin de 9,14 V, soit moins que la tension minimale de 15 V de l'alimentation électrique. Cela entraînera une défaillance du spot parce que la tension est trop élevée.

Le circuit entier des spots doit toujours être testé immédiatement. Lorsque le monteur teste l'alimentation électrique avec chaque spot séparément, le spot qui requiert seulement 9,14 V reçoit immédiatement la tension minimale complète de 15 V. C'est trop et cela va entraîner un dysfonctionnement du spot.

## L'alimentation électrique fournit trop peu de tension pour le nombre de spots :

Si vous connectez 8 spots de 3,2 W à la même alimentation électrique, vous aurez besoin d'un courant total de 73,12 V (= 8 x 9,14 V). C'est plus que la tension maximale de l'alimentation électrique. Les spots LED n'atteindront pas leur rendement lumineux maximal. En d'autres termes, ils paraîtront atténués.

## Nombre minimum et maximum de spots sur l'alimentation électrique

Pour cette alimentation 350 mA (15 – 30 V), vous devez installer au moins deux de ces nouveaux spots de 3,2 W. La capacité maximale de l'alimentation électrique est de trois spots. Si vous voulez en installer davantage, vous aurez besoin d'une alimentation électrique d'une tension supérieure.

## Ne jamais installer sous tension des spots LED commandés en courant

Pendant l'installation de spots LED commandés en courant, l'alimentation LED ne peut **jamais être sous tension** ! Si vous négligez cette mise en garde, vous risquez d'endommager les LED. Vous perdrez même votre garantie. En cas de doute, contactez un électricien professionnel.

Lorsque les alimentations LED sont mises sous tension, elles commencent à chercher la quantité de tension qu'elles doivent distribuer. Si aucun spot n'est connecté, la plupart des alimentations continueront d'accumuler de la tension jusqu'à leur maximum.

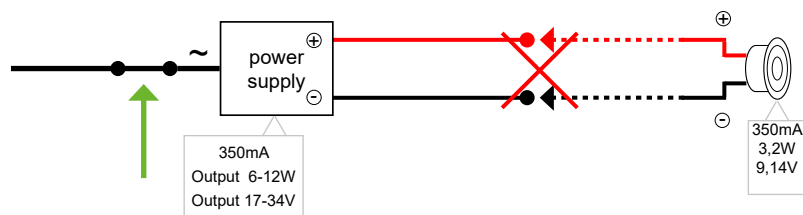
Si vous branchez un spot LED à cette alimentation électrique entièrement chargée, elle recevra immédiatement la tension de sortie maximale. Si elle est supérieure à la tension maximale du spot LED, la LED va être endommagée. Il ne faut qu'une fraction de seconde pour que cela se produise.

Par conséquent, il est extrêmement important de couper la tension de votre alimentation électrique lors de l'installation de vos spots LED.

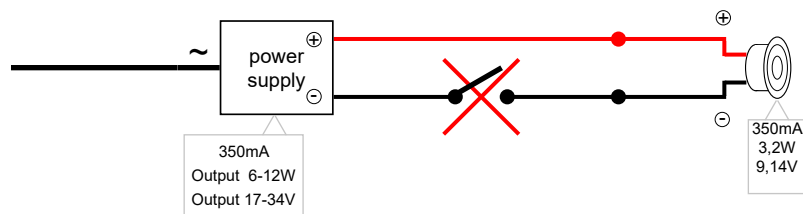
## Mauvaise installation :

Supposons que vous mettiez une alimentation électrique de 350 mA (17-34V) sous tension. Ensuite, vous branchez un spot LED de 3,2 W. Le spot recevra immédiatement la tension de sortie totale de 34V. La tension maximale de ce spot de 3,2W est de seulement 9,14 V (= 3,2W / 350mA), et donc la LED va être endommagée.

**Vous devez connecter toutes vos LED préalablement avant de mettre votre alimentation électrique sous tension. De cette manière, l'alimentation électrique peut accumuler la tension requise.**



L'alimentation électrique ne peut être commutée que du côté primaire, à savoir avant que la tension de secteur de 230 V n'arrive. Sinon, la LED sera endommagée, exactement comme dans la situation ci-dessus.



## Alimentation LED protégée :

Certaines alimentations électriques sont protégées contre le phénomène exposé ci-dessus. Lorsque ce type d'alimentation électrique est mis sous tension et qu'aucun spot n'est connecté, elles ne développent pas leur tension maximale. Au contraire : elles ne distribuent aucune tension du tout.

L'alimentation électrique ne commencera à distribuer la tension que quand les spots seront connectés et que l'alimentation électrique redémarrera.

# RECOMMANDATIONS POUR LE CABLAGE EN EXTERIEUR



Les luminaires doivent être installés et raccordés par un technicien qualifié.

## Les encastrés de sol.

### LE RACCORDEMENT

Les luminaires doivent être installés et connectés par un technicien qualifié.

Pour que vos encastrés de sol puissent fonctionner, vous devez naturellement les raccorder au réseau électrique.

Ce raccordement doit faire l'objet d'une grande protection contre l'humidité, précisé par la valeur IP (International Protection) du produit. Cette valeur comprend deux chiffres : le premier chiffre désigne la protection contre les objets solides et le second chiffre la protection contre l'eau et l'humidité.

Les encastrés de sol sont souvent installés dans des lieux soumis aux intempéries, il est donc impératif :

- D'opter pour une solution de raccordement avec un indice IP68.
- De faire l'étanchéité sur la gaine du câble et non sur les conducteurs.
- D'utiliser un pot d'encastrement lorsqu'ils sont installés dans la terre.

Les erreurs à éviter :

- Utilisation de connecteurs IP20 non résinés (photo 1) ou d'une bande adhésive (photo 2).
- Le raccordement étanche n'est pas réalisé sur la gaine du câble mais sur les conducteurs (photos 3 et 4).
- La résine ou le gel isolant n'est pas correctement coulé (photo 5).

Une mauvaise étanchéité, même partielle, va générer une remontée d'eau dans le produit via le câble. Ce phénomène de remontée d'eau par «capillarité» endommage les composants électriques et ne permet plus le bon fonctionnement du produit.



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## BOITE DE DERIVATION IP68

La manière la plus sûre de parvenir à réaliser un raccordement étanche IP68 est d'effectuer le branchement dans une boîte de dérivation et de la remplir ensuite de résine. Ce type de gel isolant électrique se compose de deux résines à mélanger (on parle de gel isolant bi-composant). La résine à couler dans la boîte de dérivation garantit que le branchement et votre spot de sol seront totalement protégés contre l'eau.

Il est également possible d'effectuer le branchement dans des connecteurs étanches avec des presse-étoupes. Toutefois, il s'agit d'une solution moins sûre, le risque d'infiltration d'eau n'est pas inexistant.

Une fois que le raccordement à la boîte de dérivation a été effectué et que vous avez testé plusieurs fois vos spots, vous pouvez couler la résine dans la boîte de dérivation. N'oubliez pas d'effectuer ces tests car une fois que la résine est solidifiée, vous ne pouvez plus rien pour votre branchement !



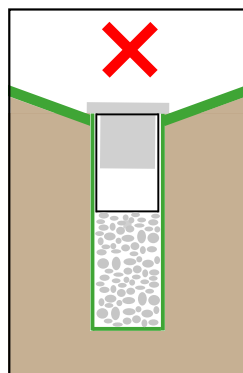
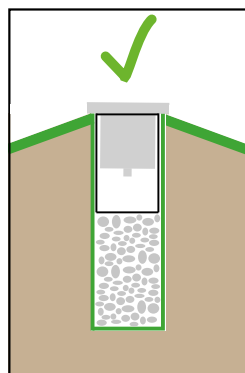
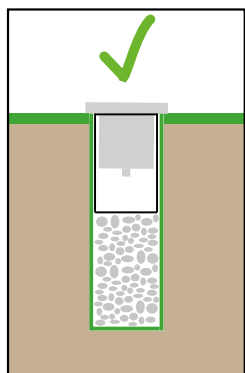
## CONNECTEUR ETANCHE

Ce connecteur avec des presse-étoupes est utilisable dans le pot d'encastrement ou sous un plancher en bois pour réaliser un raccordement étanche IP68 entre 2 ou 3 câbles souples en caoutchouc du type H07RN-F ou équivalent. Une fois que le raccordement a été effectué, ce connecteur a l'avantage d'être totalement démontable.



## EMPLACEMENT

Le spot de sol avec un degré de protection inférieur à IP68 ne doit jamais être installé dans des cavités, posez-le sur une surface plane ou surélevée.



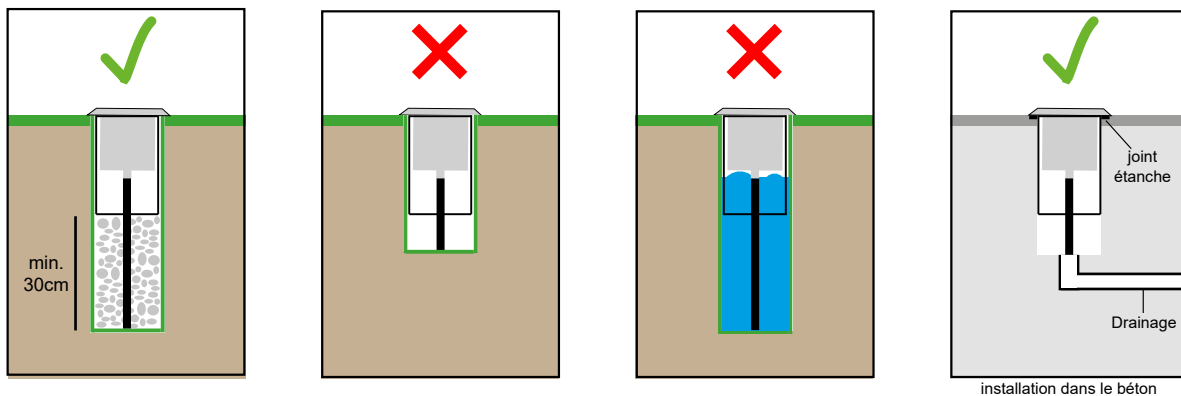
## LE DRAINAGE

### Luminaires IP68:

Un drainage n'est pas nécessaire mais il est important de savoir que ces luminaires sont prévus pour être en immersion permanente uniquement dans de l'eau claire. Ils ne sont pas conçus pour être immergés dans de l'eau chlorée, de l'eau de mer ou tout autre environnement agressif.

### Luminaires IP67:

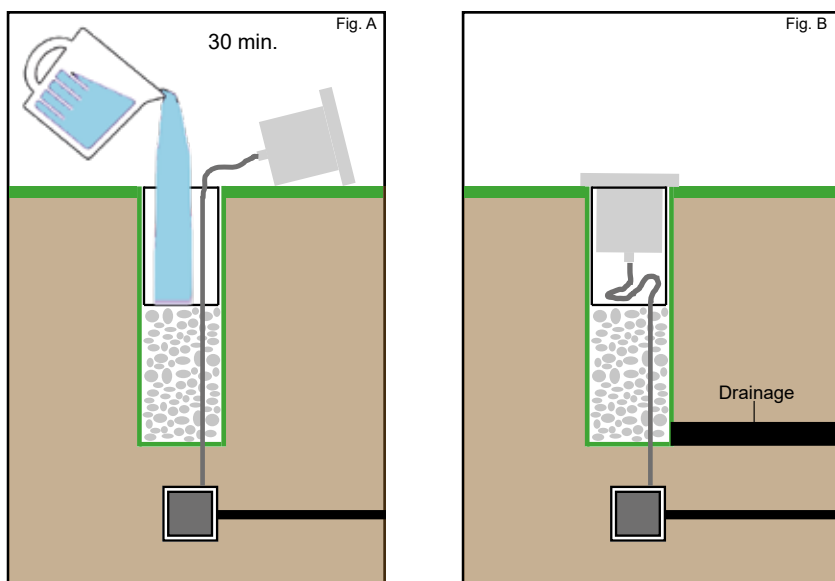
Pour assurer un bon drainage, veuillez installer une couche de gravier avec une profondeur de minimum 30cm sous le pot d'encastrement du luminaire.



Nous préconisons d'effectuer le test suivant:

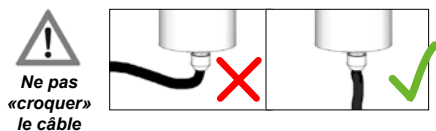
Remplir d'eau le pot d'encastrement (Fig.A) et s'assurer que celle-ci se soit toute écoulée en 30min.

Dans le cas contraire, un drainage supplémentaire est obligatoire (Fig.B)

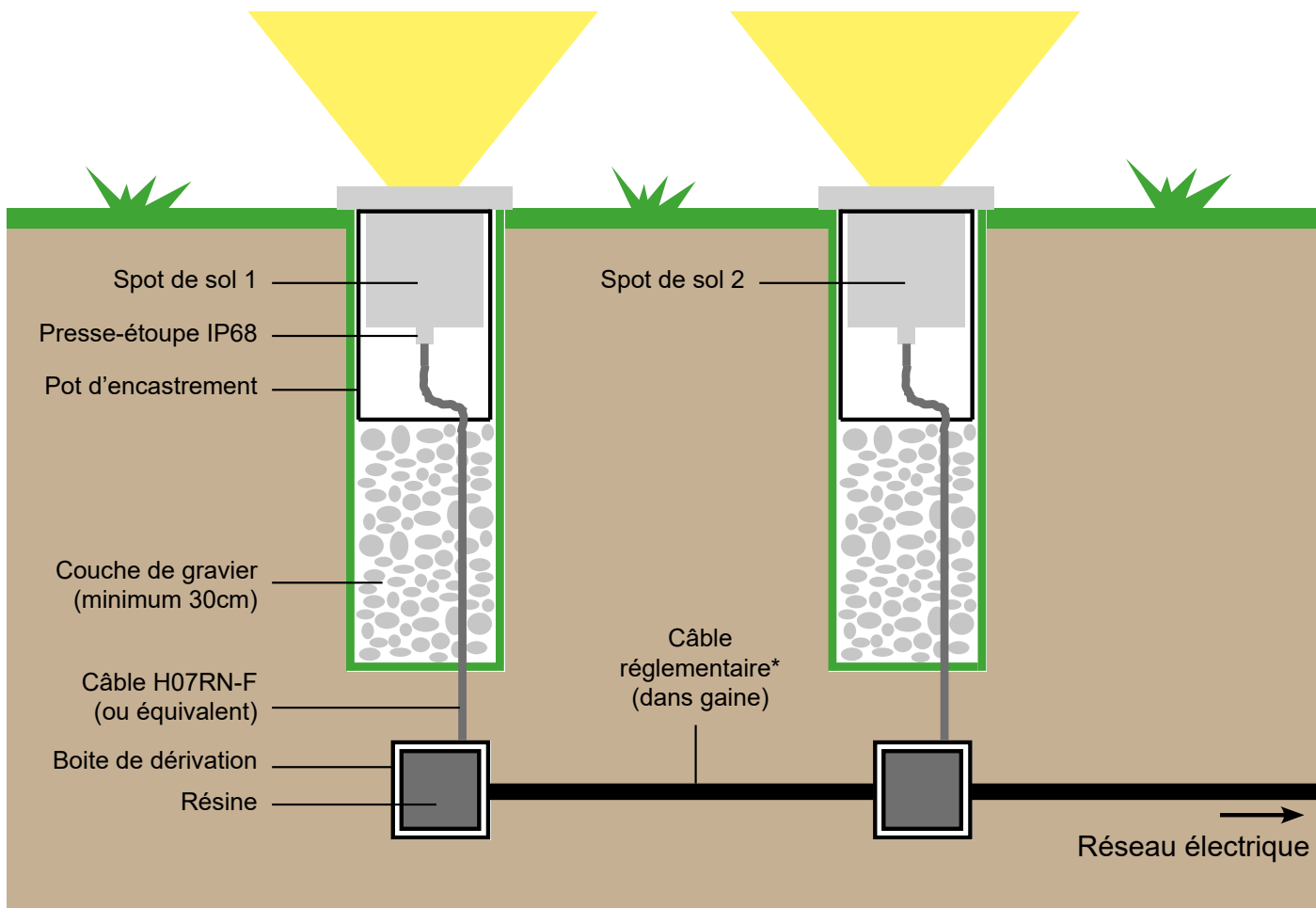


## IMPORTANT

Pour assurer une bonne étanchéité du presse-étoupe IP68, il est important de laisser une longueur suffisante et de ne pas «croquer» le câble juste à la sortie du presse-étoupe.



## ILLUSTRATION D'UN BRANCHEMENT



\* voir législation locale

### LE CABLE

Pour assurer l'étanchéité du raccordement, avec des connecteurs étanches ou une boîte de dérivation étanche, il faut utiliser un câble d'alimentation souple en caoutchouc du type H07RN-F ou équivalent. Un câble en caoutchouc souple peut être mieux raccordé contre l'eau et lorsque le presse-étoupe du spot de sol est vissé sur le câble, la gaine en caoutchouc du câble fait alors office de bague d'étanchéité. Actuellement, ce câble est souvent déjà fixé au spot de sol que vous achetez. Attention : n'enlevez jamais le câble fourni avec le spot de sol ! Sinon, votre garantie est annulée.

### LA PROFONDEUR DE LA GAINÉ ELECTRIQUE

Tout d'abord, il est nécessaire de se référer à la réglementation nationale.

Voici ce que nous préconisons:

- Pour une aire non accessible aux voitures:  
Les gaines électriques doivent être enterrées à une profondeur minimale de 50 cm.
- Pour une aire accessible aux voitures ou sous les trottoirs:  
Les gaines électriques doivent être enterrées à une profondeur minimale de 80 cm.

Les circuits électriques enterrés doivent circuler sous fourreau annelé TPC (Tube de Protection des Câbles), il s'agit de gaines en polyéthylène constituées d'une double paroi qui permet de résister aux chocs et à l'écrasement.

Lors du recouvrement de ces gaines, il faudra utiliser une terre meuble ou du sable. Il ne faut en aucun cas utiliser de gros cailloux qui pourraient avec le tassement dégrader la gaine électrique enterrée.

### INTEGRATION DANS UN PLANCHER OU UNE TERRASSE EN BOIS

Le perçage des lames de bois se fera au diamètre de perçage préconisé (voir fiche produit, notice, etc...).

La profondeur sous le plancher devra permettre d'encaster le spot et la connectique étanche.

Il est également nécessaire de s'assurer de la présence d'un espace suffisant sous l'encastrement de manière à éviter la stagnation de l'eau et de ne pas «croquer» le câble juste à la sortie du presse-étoupe. A défaut, un drainage sera réalisé.

# LA CONDENSATION

A l'exception d'une cause due à un mauvais raccordement, il s'agit avant tout d'un phénomène naturel.

La cause principale est le montage des luminaires dans une atmosphère humide, le produit étant tellement étanche que dès que le point de saturation est atteint, l'eau se condense. Quand de l'air chaud et humide entre au contact du froid, l'eau présente à l'intérieur du luminaire se transforme en condensation. Quand l'eau s'évapore, cela crée une vapeur d'eau ascendante qui peut avoir une influence sur les composants électriques. Parfois, cette vapeur d'eau peut faire disjoncter le compteur électrique.

Un rapide changement de température crée aussi une différence de pression qui peut générer de la condensation.

Pression, température et humidité de l'air sont dans un état constant de changement et cela a un effet non négligeable. Peu importe l'étanchéité du luminaire, il en résulte des conditions de pression différentes entre l'intérieur de l'enveloppe et l'environnement provoquant le transport de l'air qui se condense dans le luminaire.

La garantie de BEL Lighting ne couvre pas la condensation, sauf s'il est avéré que l'infiltration d'eau est due à un défaut de la lampe.

En cas de condensation, vous devez vérifier ce qui suit :

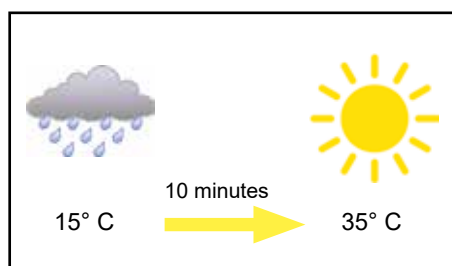
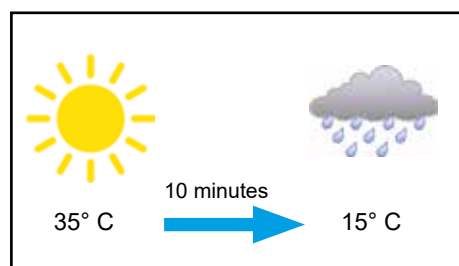
- La lampe est-elle correctement installée ?
- Les joints sont-ils étanches et les vis et le verre sont-ils suffisamment bien serrés ?
- S'il s'agit de bornes, il se peut que l'humidité remontant du sol soit à l'origine de la formation de la condensation.

Sur la plupart de nos bornes et appliques, nous utilisons des verres «sablés fin», ce qui a pour conséquence de rendre visible les gouttes d'eau dues à la condensation (voir photo) et de rendre le verre plus transparent.

Il est recommandé lors de l'installation de:

- Réaliser le montage et le câblage par temps très sec
- Vérifier l'état de serrage de toutes les parties à serrage et des presse-étoupes
- Bien respecter les recommandations pour le câblage en extérieur

**En cas de doute, référez-vous toujours à un professionnel.**



## L'ENTRETIEN

Un nettoyage régulier est recommandé avec les produits appropriés pour préserver l'apparence et l'intégrité de la surface des luminaires. Ne jamais employer des produits de nettoyage agressifs ou des solutions chimiques qui risquent d'attaquer la surface.

Nous recommandons l'utilisation d'un chiffon humide ( microfibre de préférence) ou peau de chamois pour l'entretien et le nettoyage des parties en inox, laiton ou cuivre.

Lors de l'entretien, si vous constatez:

- Un verre de protection cassé, fissuré ou décollé
- Une dégradation du câble d'alimentation
- un joint dégradé

Alors le luminaire est inutilisable et les pièces endommagées doivent faire l'objet d'une réparation exclusivement avec des pièces de rechange d'origine.

**Exemples de luminaires avant et après nettoyage:**



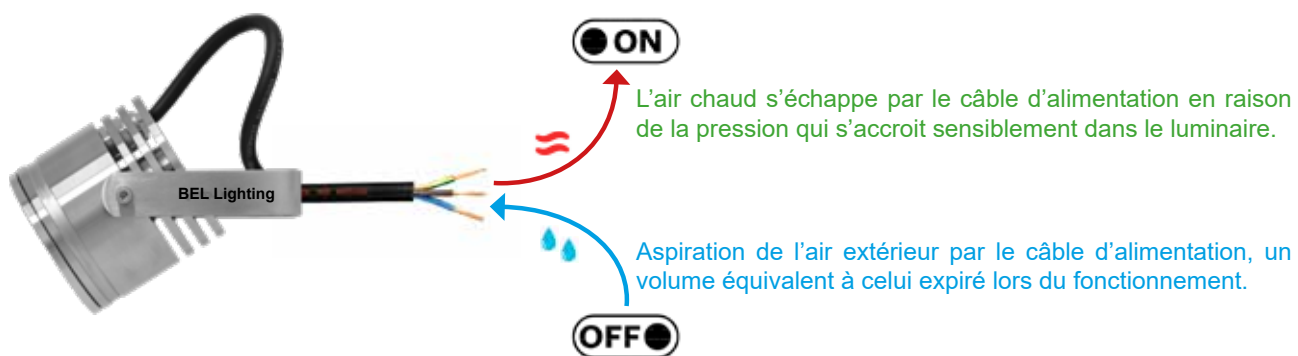
INOX



LAITON

# BLOQUER LA REMONTÉE D'EAU

## PAR LE CÂBLE D'ALIMENTATION



Scannez le QR code  
pour accéder au document

## ACCESSOIRES DE RACCORDEMENT APPROUVÉS

POUR EMPÊCHER L'INFILTRATION D'EAU PAR LE CÂBLE D'ALIMENTATION



# Materialien

## Edelstahl 304L oder 316L

Der Edelstahl ist ein einzigartiges Material mit einer außergewöhnlichen Widerstandskraft und einfachen Wiederverwertbarkeit. Die funktionellen Werte und der wirtschaftliche Wert des Inox Stahls eignen sich nicht nur für den Einsatz in wichtigen und prestigeträchtigen Industrieprojekten sondern auch für jegliche andere Industriezweige (Automobil, Lebensmittel....) Inox kann jahrzehntelang unverändert bleiben bevor er irgendeiner Verarbeitung unterzogen wird. Außer der extremen Widerstandsfähigkeit gegen Korrosion (Rosten), erfüllt er auch die Anforderungen aller mechanischen und thermischen Widerstandskräfte. Inox reagiert auf Sauerstoff indem er eine resistente Schutzmembran entwickelt. Der 304L rostfreie Stahl kann Oxidierungsflecken aufweisen, welche aber durch Reinigung entfernt werden können. Seine Nickel- und Chrombestandteile erhöhen grundsätzlich seine Korrosionsresistenz. Vorsicht, Inox der durch Instrumente wie Drehzahlmesser, CNC (computergestützte numerische Steuerung) etc. verarbeitet wird, magnetisiert durch elektrische Ladung, die im Laufe der Behandlung durch Reibung entsteht. Optisch betrachtet zählt Inox zu den schönsten Materialien, bekannt für sein haltbares Design hat er einen hohen Stellenwert bei Architekten und Dekorateur. Da er leicht kombinierbar ist, gehört er zu den Ausnahmematerialien.

### **Gedrehte Edelstahl 304L Produkte - gebürstet (Farbcode = 04):**

Sie können im Innen- und Außenbereich verwendet werden, sollten jedoch nicht in einer verschmutzten Atmosphäre (Industriezone, Hafen, Schwimmbecken, chemische Industrie, Scheune usw.) aufgestellt werden. Der Ort Ihres Projekts muss mehr als 20 km von der Küste entfernt sein.

Für eine optimale Installation in aggressiven Umgebungen bieten wir:

- Hohe Version (Code = 04EP) = Edelstahl 304L gebürstet + Elektropolieren  
Zögern Sie nicht, nach einem persönlichen Angebot zu fragen

### **Gedrehtes Edelstahl 316L - gebürstet (Farbcode = 16):**

Sie können in aggressiven Umgebungen (am Meer, am Pool usw.) verwendet werden, aber seien Sie vorsichtig, dies schließt das Auftreten von Rostflecken nicht aus, wenn die Leuchte nicht regelmäßig gewartet wird (insbesondere in chlorierten Umgebungen und jodiert, oder wenn die Produkte sind) Unwetter ausgesetzt)

Für eine optimale Installation in aggressiven Umgebungen bieten wir:

- High + Version (Code = 16EP) = Edelstahl 316L gebürstet + Elektropolieren  
Zögern Sie nicht, nach einem persönlichen Angebot zu fragen.

### Inox-Stahl Elektropolierung

Edelstahl (304L oder 316L), das in einer Meeresumgebung (bis zu 20 km vom Meer entfernt) installiert wird, ist dazu verdammt, stumpf zu werden. Schmutz und andere mikroskopisch kleine, mit Eisen beladene Stäube können gespeichert werden und mit den Salzen des Meeressprays gemischt werden und ihre Oxidation zu Rostflecken beschleunigen.

Nach der Elektropolierbehandlung können Staub und Sprühnebel nicht mehr gelagert werden. Diese rein elektrochemische Behandlung entfernt Verunreinigungen und Eisen und reduziert die Oberfläche durch Mikroentgraten. Die Oberfläche, glatter und reicher an Chrom, erhält einen brillanten Glanz und eine optimale und dauerhafte Korrosionsbeständigkeit.

Dieses Verfahren erhöht die Korrosionsresistenz und wird in der chemischen- und pharmazeutischen Industrie eingesetzt, bei äußeren und architektonischen Anwendungen, Booten und Jachten, Schwimmbädern, im maritimen Bereich und anderen Anwendungen die von Lochfraß betroffen sind. Zögern Sie nicht ein individuelles Angebot anzufordern. Dieses Verfahren läßt sich mit der Mehrheit der Inox Leuchten 304L oder 316L durchführen.

## Kupfer

Gold und Kupfer sind die einzigen Metalle mit natürlichen Farben. Die natürliche Farbe des Kupfers geht ins Rötliche, was einen metallischen Schimmer hervorbringt wenn es glänzt. Das Kupfer hat eine thermische und elektrische Leitungsfähigkeit, besitzt eine exzellente Resistenz gegen Wassererosion, im maritimen Umfeld und gegen organische Säure. Es weist keine magnetischen Eigenschaften auf. Als Selbstschutz entwickelt das Kupfer eine natürliche Schicht in braun-grüner Farbe wenn es den äußeren Witterungen ausgesetzt ist.

## Messing

Es handelt sich um die Legierung aus Kupfer und Zink. Das Messing ist härter als Kupfer und hat einen natürlichen gelblichen Farbton. Das Messing entwickelt eine natürliche braun-schwarze Farbschicht an der Oberfläche um sich vor der Korrosion zu schützen wenn es den äußeren Witterungen ausgesetzt ist.

## Aluminium (Serie 6000)

Für die Legierung von Aluminium, Silicium und Magnesium nutzen wir hauptsächlich für unsere Produktion Profilstahl in unterschiedlichem Umfang der Serie 6000. Das Aluminium besitzt gute Leitungsfähigkeiten, allerdings auch eine außergewöhnliche Resistenz gegen Lufterosion.

### Aluminiumverarbeitung

● **Eloxierung** : ist die Umwandlung der Oberfläche des Aluminiums und die Schaffung einer künstlichen Oxidschicht. Der Prozess wird unter kontrollierten Bedingungen durchgeführt und daher ist diese Oxidschicht sehr beständig und hart, um das Aluminium zu schützen.

Bei allen unseren Produkten mit dem Farbcode «32» führen wir eine Standardanodisierung von **15 microns** durch.

Für eine optimale Installation in aggressiven Umgebungen bieten wir:

Doppelte klare Eloxierung (Code = 32D) oder Schwarz eloxiert (Code = 02A): **20+ microns «sea side»**

Diese doppelte Eloxierung wird für die Installation in aggressiven Umgebungen (am Meer, Pool usw.) empfohlen.

Andere Farben mit **20+ microns «sea side»** Eloxierung sind Bronze (33), Mattgold (34), Grün (35) und Burgunderrot (36).

Zögern Sie nicht, nach einem persönlichen Angebot zu fragen.

### **Farbabweichungen bei Leuchten aus eloxiertem Aluminium**

Unsere Leuchten mit eloxierter Aluminiumoberfläche werden mit höchster Sorgfalt hergestellt, um sowohl ästhetische Ansprüche als auch Langlebigkeit zu gewährleisten. Es ist jedoch wichtig zu beachten, dass es zu leichten Farbabweichungen kommen kann, selbst bei einer einzelnen Leuchte. Diese Unterschiede sind ein natürliches Ergebnis des Eloxalverfahrens, bei dem das Material je nach Dicke der Eloxalschicht oder der Lichtstreuung unterschiedlich reagiert. Diese Variationen tragen zur Authentizität und zum einzigartigen Charakter jeder Leuchte bei. Wenn Sie Fragen haben oder weitere Informationen zur Oberflächenbehandlung unserer Produkte wünschen, stehen wir Ihnen gerne zur Verfügung.

● **Elektrostatische Lackierung**: Es ist eine Polyester-Farbschicht. Die Vorstufe ist die Beschichtung des Metalls mit einer mehrstufigen Vollchromat-Beschichtung, um es noch widerstandsfähiger gegen Erosion zu machen.

BEL LIGHTING verwendet hauptsächlich AkzoNobels extrem haltbare Polyesterfarben, die für die Außenarchitektur entwickelt wurden und eine hohe Wetterbeständigkeit und langfristige Farbstabilität erfordern.

## Stein aus Belgien

Dieser Stein stammt aus Belgien und wird seit über 300 Jahren im Bauwesen der belgischen Geschichte eingesetzt. Es handelt sich also um ein Stück belgische Geschichte die die Designer von Bel-Lighting in ihre Produktion übernommen haben.

Der Blaustein besteht aus einer unersetzbaren Materie mit einer ganz besonderen Qualität und gewinnt, so wie das Holz, mit der Zeit an Wert: Die Erosion und die Patina tragen zur Verschönerung bei.

Unsere Leuchten tragen die Aufschrift „wahrer Blaustein aus Belgien-Hennegau“ mit der technischen Zulassung und dem vom U.B.A.t.c. (Belgischer Verband für technische Zulassungen im Bauwesen) ausgestellten Zertifikat.

# EMPFEHLUNGEN FÜR OUTDOOR VERKABELUNG



Die Montage und der Anschluss der Leuchten müssen durch einen qualifizierten Techniker erfolgen.

## Bodeneinbauleuchten

### DIE VERBINDUNG

Leuchten müssen von einem qualifizierten Techniker/Elektriker installiert und angeschlossen werden.

Damit diese in den Boden eingelassen werden können, müssen Sie diese natürlich an das Stromnetz angeschlossen werden. Diese Verbindung muss vor Feuchtigkeit geschützt sein, die durch den IP - Wert (International Protection). Dieser Wert besteht aus zwei Ziffern: die erste Ziffer bezeichnet den Schutz gegen feste Objekte und die zweite Ziffer, Schutz gegen Wasser und Feuchtigkeit.

Bodeneinbauleuchten werden oft an Orten mit schlechtem Wetter installiert, daher ist es unerlässlich:

- Wählen Sie eine Verbindungslösung mit der Schutzart IP68.
- Um den Kabelmantel und nicht die Leiter abzudichten.
- Verwenden Sie einen Einbautopf, wenn Sie im Boden installiert sind.

Zu vermeidende Fehler:

- Verwendung von nicht resistenten IP20-Steckverbindern (Foto 1) oder Klebeband (Foto 2).
- Die wasserdichte Verbindung erfolgt nicht am Kabelmantel, sondern an den Leitern (Fotos 3 und 4).
- Das Harz oder das Isoliergel ist nicht richtig gegossen (Foto 5).

Eine schlechte Dichtung, auch nur teilweise, erzeugt über das Kabel einen Anstieg des Wassers im Produkt. Dieses Phänomen des aufsteigenden Wassers durch «Kapillarität» schädigt die elektrischen Bauteile.



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## IP68 BYPASS BOX

Der sicherste Weg, um eine wasserdichte IP68-Verbindung zu erreichen, ist die Verbindung mit einer Box und diese mit Harz füllen. Diese Art von Elektroisoliertegel besteht aus zwei Harzen zu mischen (wir sprechen von Zweikomponenten-Isoliergel). Das Harz, das in der Anschlussdose fließt, stellt sicher, dass die Verbindung und Ihr Produkt total geschützt wird gegen Wasser.

Es ist auch möglich, abgedichtete Steckverbinder mit Kabelverschraubungen anzuschließen. Dies ist jedoch eine weniger sichere Lösung, die Gefahr des Eindringens von Wasser besteht nicht.

Sobald die Verbindung zur Anschlussdose hergestellt ist und Sie Ihre Spots mehrmals getestet haben, können Sie das Harz in die Anschlussdose gießen. Vergessen Sie nicht, Tests durchzuführen, denn wenn das Harz erstarrt ist, kann keine Korrektur gemacht werden!



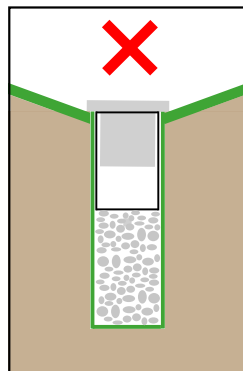
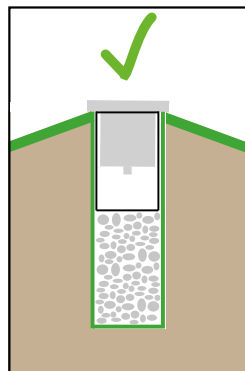
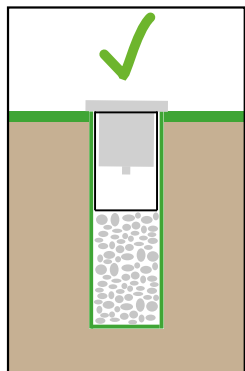
## VERDICHTETER ANSCHLUSS

Dieser Stecker mit Kabelverschraubungen kann in der Aussparung oder unter einem Holzboden verwendet werden, um eine IP68 wasserdichte Verbindung zwischen 2 oder 3 flexiblen Gummikabeln des Typs H07RN-F oder gleichwertig. Sobald die Verbindung hergestellt wurde, hat dieser Anschluss den Vorteil, dass er vollständig entfernbar ist.



## LAGE

Bodenstrahler mit einer Schutzart von weniger als IP68 dürfen niemals in Hohlräumen installiert werden, sondern auf einer flachen oder erhöhten Fläche.



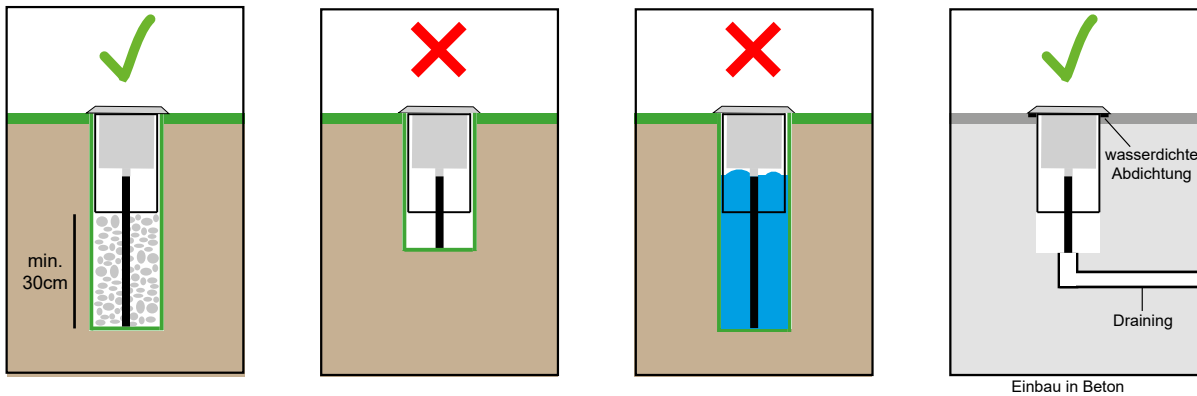
## ENTWÄSSERUNG

### IP68 leuchten:

Entwässerung ist nicht notwendig, aber es ist wichtig zu wissen, dass diese Armaturen eingetaucht werden sollen permanent nur in klarem Wasser. Sie sind nicht dazu bestimmt, in chloriertes Wasser, Meerwasser oder Wasser eingetaucht zu werden oder andere aggressive Umgebung.

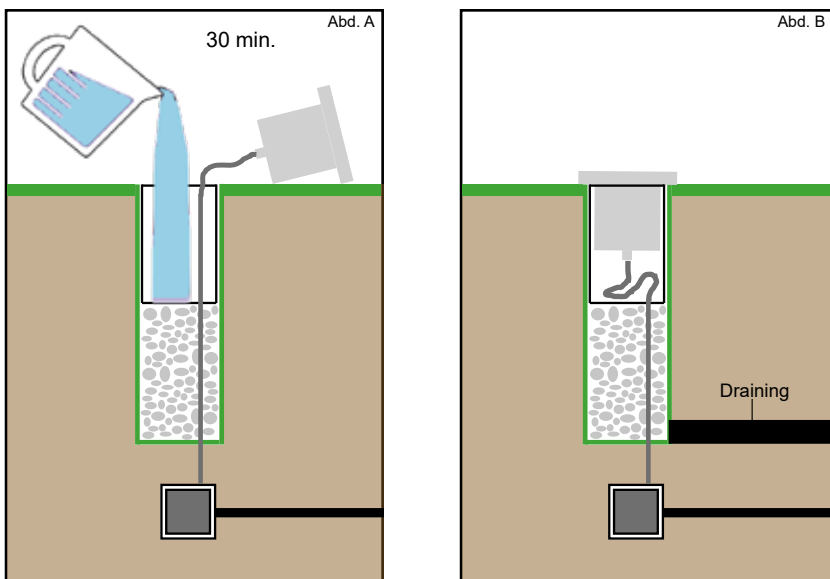
### IP67 leuchten:

Um eine gute Entwässerung zu gewährleisten, installieren Sie bitte eine Kiesschicht mit einer Tiefe von mindestens 30 cm unter dem Topf Montage der Leuchte.



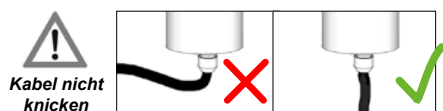
Wir empfehlen folgenden Test durchzuführen:

Füllen Sie die Vertiefung mit Wasser (Abb.A) und vergewissern Sie sich, dass in 30 Minuten das Wasser abgelaufen ist. Andermal ist eine zusätzlich Drainage erforderlich. (Abb.B)

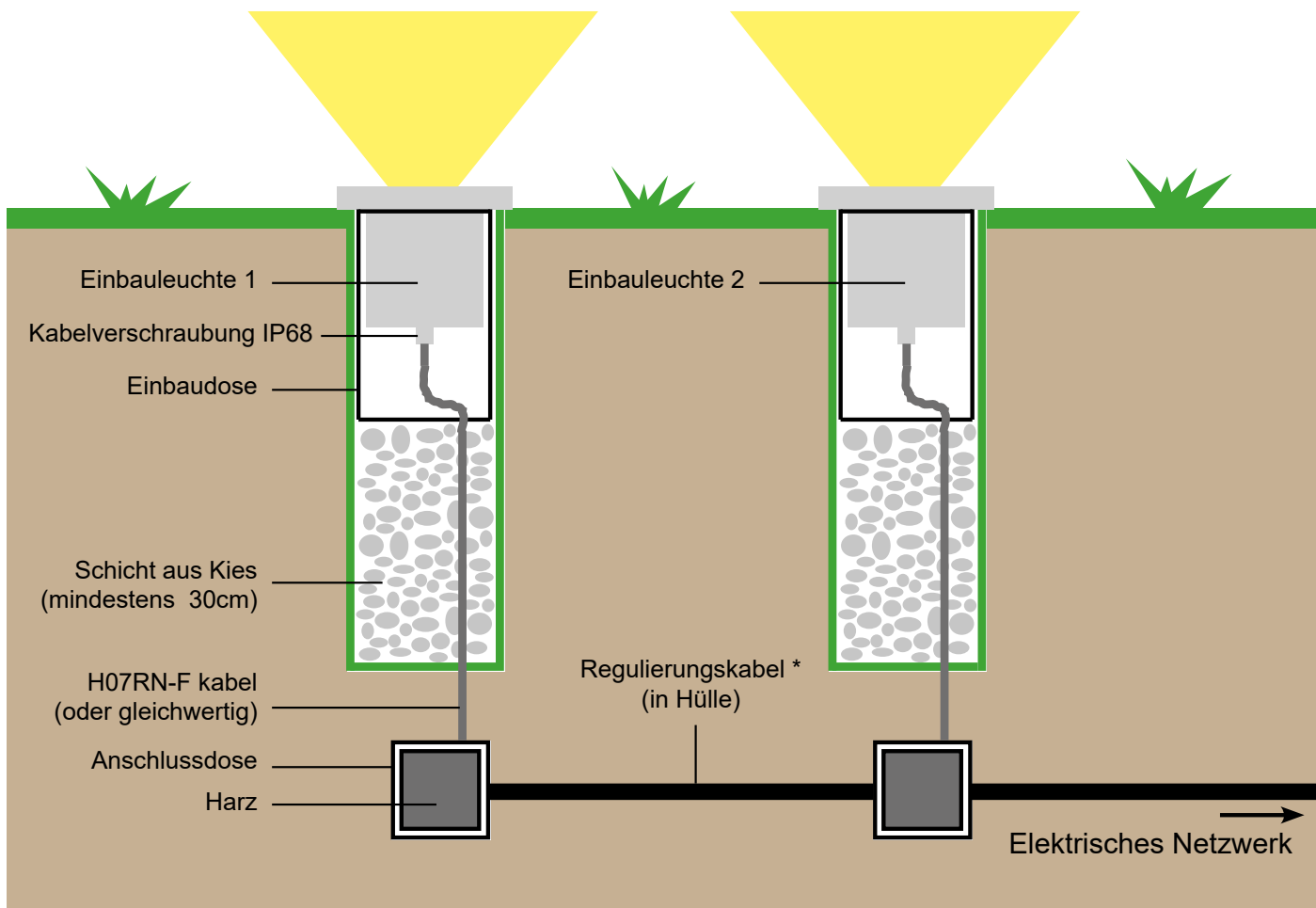


## WICHTIG

Um eine gute Abdichtung der Kabelverschraubung zu gewährleisten IP68, es ist wichtig, eine ausreichende Länge zu gewährleisten und zu gewährleisten, dass das Kabel nicht direkt aus der Kabelverschraubung herauszieht.



## ABBILDUNG EINER VERBINDUNG



\* siehe nationale Vorschriften.

### DAS KABEL

Um die Dichtheit der Verbindung zu gewährleisten, verwenden Sie bei wasserdichten Steckern oder Anschlussdosen ein flexibles Gummikabel H07RN-F oder gleichwertig. Ein flexibles Gummikabel ist viel einfacher gegen Wasser abzudichten. Wenn der Wirbel des Bodenflusses am Kabel befestigt ist, fungiert der Gummi-Kabelmantel als Tülle. Heutzutage wird das Kabel oft schon an der Bodenstelle. In diesem Fall benötigen Sie kein separates Kabel.

Achtung: Wenn ein Kabel am Boden angebracht ist, entfernen Sie es nicht! Dadurch verlieren Sie Ihre Garantie.

### INTEGRATION IN EINEN HOLZBODEN ODER TERRASSE

Das Bohren der Holzbalken erfolgt auf dem empfohlenen Bohrdurchmesser (siehe Produktblatt, Handbuch, etc ...). Die Tiefe unter dem Boden muss es ermöglichen, den Spot und die wasserdichten Verbindungen einzubetten. Es muss auch sichergestellt werden, dass genügend Platz vorhanden ist, um ein Stagnieren des Wassers zu verhindern und das Kabel nicht direkt am Ausgang der Kabelverschraubung zu «biegen». Andernfalls muss eine Drainage gemacht werden.

# WASSER KONDENSATION

Mit Ausnahme einer Ursache aufgrund einer schlechten Verbindung ist es vor allem ein natürliches Phänomen.

Die Hauptursache ist die Montage der Leuchten in einer feuchten Atmosphäre, wobei das Produkt so dicht ist, dass sobald der Sättigungspunkt erreicht ist, das Wasser kondensiert. Wenn warme, feuchte Luft in Kontakt mit der Kälte kommt, wird das Wasser in der Leuchte zu Kondenswasser. Wann das Wasser verdunstet, es entsteht ein aufsteigender Wasserdampf, der die elektrischen Komponenten beeinflussen kann. Manchmal dieses Wasser Dampf kann dazu führen, dass die elektrische Anlage auslöst

Eine schnelle Temperaturänderung erzeugt auch eine Druckdifferenz, die Kondensation verursachen kann.

Druck, Temperatur und Feuchtigkeit der Luft sind in einem konstanten Zustand der Veränderung und dies hat einen nicht unbedeutenden Effekt. Egal ob durch die Dichtheit der Leuchte ergeben sich unterschiedliche Druckverhältnisse zwischen dem Innenraum des Gehäuses und der Umgebung verursacht den Transport der Luft, die in der Leuchte kondensiert.

Die Garantie von BEL Lighting deckt keine Kondensation ab, es sei denn, es wurde nachgewiesen, dass die Wasserinfiltration auf einen Defekt des Geräts zurückzuführen ist. Bei Kondensation müssen Sie folgende Punkte überprüfen:

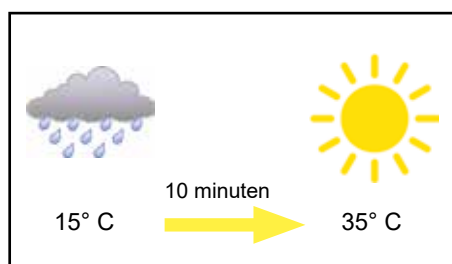
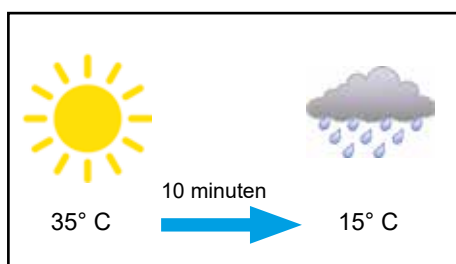
- Ist die Lampe richtig installiert?
- Sind die Dichtungen abgedichtet und die Schrauben und das Glas fest genug?
- Bei Pollern ist es möglich, dass die vom Boden kommende Feuchtigkeit die Ursache für die Bildung von Kondenswasser ist.

Bei den meisten unserer Poller und Wandleuchten verwenden wir «sandgestrahlte» Gläser, die die Wassertropfen sichtbar machen, aufgrund von Kondensation (siehe Foto) und machen das Glas transparenter.

Es wird empfohlen, bei der Installation:

- Realisieren Sie Montage und Verdrahtung bei sehr trockenem Wetter
- Überprüfen Sie den Anzugszustand aller Klemmteile und Kabelverschraubungen
- Beachten Sie die Empfehlungen für die Außenverdrahtung

**Wenn Sie Zweifel haben, wenden Sie sich immer an einen Fachmann.**



## INSTANDHALTUNG

Bei geeigneten Produkten wird eine regelmäßige Reinigung empfohlen, um das Erscheinungsbild und die Integrität der Leuchtenoberfläche zu erhalten. Verwenden Sie niemals scharfe Reinigungsmittel oder chemische Lösungen, die die Oberfläche angreifen könnten.

Wir empfehlen die Verwendung eines feuchten Tuches (Mikrofaser vorzugsweise) oder Chamoisleder für die Wartung und Reinigung von Teilen in Edelstahl, Messing oder Kupfer.

Wenn Sie während der Wartung Folgendes finden:

- Ein gebrochenes, gerissenes oder nicht entferntes Schutzglas
- Verschlechterung des Stromkabels
- ein verschlechtertes Siegel

Dann ist die Leuchte unbrauchbar und die beschädigten Teile müssen nur mit Original-Ersatzteilen repariert werden.

**Beispiele für Leuchten vor und nach der Reinigung:**

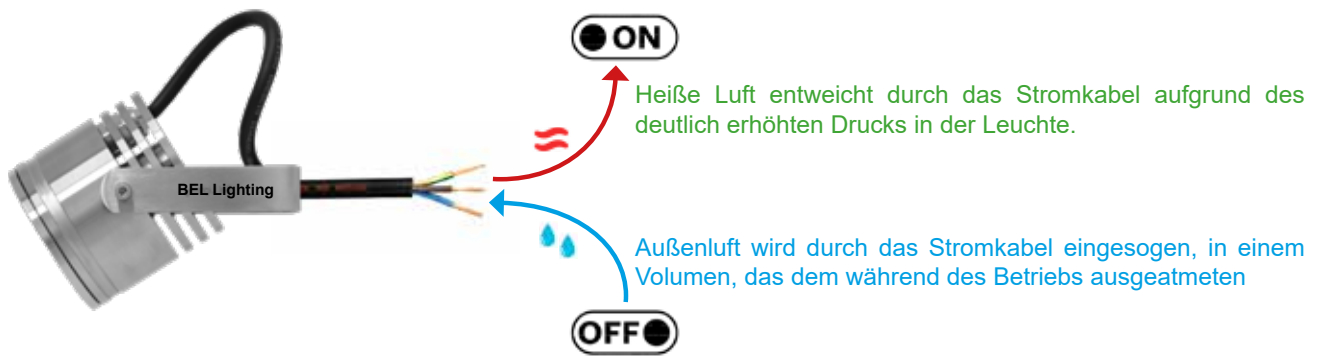


Edelstahl



Messing

# BLOCKIEREN SIE DAS AUFSTEIFEN VON WASSER DURCH DAS STROMKABEL



Scannen Sie den QR-Code  
um auf das Dokument zuzugreifen

## ZUGELASSENES ANSCHLUSSZUBEHÖR

ZUR VERHINDERUNG DES EINDRINGENS VON WASSER DURCH DAS STROMKABEL



# ΠΡΩΤΕΣ ΥΛΕΣ

## Ανοξειδωτος χάλυβας 316L - 304L

Ο ανοξειδωτος χάλυβας είναι ένα μοναδικό υλικό εξαιρετικής αντοχής και εύκολα ανακυκλώσιμο. Η λειτουργικότητά του και η νομισματική του αξία επιτρέπει να χρησιμοποιείται όχι μόνο για μείζονος κύρους βιομηχανικά έργα, αλλά και για κάθε μορφή βιομηχανίας (αυτοκίνητο, τρόφιμα, ...). Ο ανοξειδωτος χάλυβας μπορεί να παραμείνει αμετάβλητος για δεκαετίες, πριν υποβληθεί σε οποιαδήποτε συντήρηση. Εκτός από την εξαιρετική αντίσταση στη διάβρωση, ικανοποιεί τις απαιτήσεις μηχανικής αντοχής και θερμικής καταπόνησης. Ο ανοξειδωτος χάλυβας προστατεύει τον εαυτό του αντιδρώντας στο ατμοσφαιρικό οξυγόνο δημιουργώντας μια ισχυρή προστατευτική διάφανη μεμβράνη. Το ανοξειδωτο 304L μπορεί να παρουσιάσει σημεία οξειδωσης (καφέ-κόκκινα στίγματα), τα οποία εξαφανίζονται με τον καθαρισμό. Η περιεκτικότητά του σε νικέλιο και χρώμιο είναι που αυξάνει, κυρίως, την αντοχή του στη διάβρωση. Προσοχή, ο ανοξειδωτος χάλυβας που έχει υποβληθεί σε επεξεργασία με όργανα όπως τόρνοι, CNC, κλπ. μαγνητίζει λόγω των ηλεκτρικών φορτίων που αναπτύχθηκαν κατά τη διάρκεια της κατεργασίας λόγω τριβής. Οπτικά, ο ανοξειδωτος χάλυβας είναι ένα από τα πιο όμορφα υλικά. Το φινιρίσμά του, η ανθεκτικότητά του και η δυνατότητα επεξεργασίας του τον καθιστά το πλέον αγαπημένο υλικό σε αρχιτέκτονες και διακοσμητές.

### Προϊόντα από ανοξειδωτο χάλυβα 304L (κωδικός χρώματος = 04):

Μπορούν να χρησιμοποιηθούν σε εσωτερικούς και εξωτερικούς χώρους, αλλά δεν πρέπει να τοποθετούνται σε μολυσμένη ατμόσφαιρα (Βιομηχανική Ζώνη, λιμάνι, πισίνα, χημική βιομηχανία κλπ.). Ο τόπος του έργου σας πρέπει να βρίσκεται σε μεγάλη απόσταση από την ακτή και το ποσοστό υγρασίας θα πρέπει να παραμένει χαμηλό. Τα φωτιστικά θα πρέπει πάντα να συντηρούνται, και μάλιστα σε τακτά διαστήματα, με την ειδική αλοιφή, που προτείνει η εταιρεία μας (Poli INOX) και την οποία μπορείτε να δείτε στον κατάλογο.

### Τα προϊόντα από ανοξειδωτο χάλυβα 316L (κωδικός χρώματος = 16):

Μπορούν να χρησιμοποιηθούν σε επιθετικά περιβάλλοντα (παραθαλάσσια, δίπλα στην πισίνα κ.λπ.), αλλά προσέξτε, αυτό δεν αποκλείει την εμφάνιση Μερικής οξειδωσης, εάν το φωτιστικό δεν συντηρείται τακτικά (ειδικά σε χλωριωμένα και ιωδιωμένα περιβάλλοντα ή εάν τα προϊόντα εκτίθενται σε έντονα καιρικά φαινόμενα).

Γιατί προτιμάτε τον ανοξειδωτο χάλυβα 316L με γυαλιστερό/γυαλισμένο φινιρίσμα σε επιθετικά περιβάλλοντα;

Η απάντηση βρίσκεται στο ότι αυτού του είδους το βούρτσισμα, που δίνει αυτή την όψη γυαλισμένου (καθρέπτη) στον ανοξειδωτο χάλυβα, δεν επιτρέπει στη σκόνη να φωλιάσει στους πόρους του ανοξειδωτου, όπως συμβαίνει με το συμβατικό βούρτσισμα, που του χαρίζει ματ. Η βρωμιά και η μικροσκοπική σκόνη εμπλουτισμένη με σίδηρο μπορεί να αποθηκευτεί στους πόρους, που δεν κλείνουν πλήρως στο ματ φινιρίσμα, και έτσι να αναμιχθεί επίσης με τα άλατα του θαλάσσιου περιβάλλοντος, με αποτέλεσμα να επιταχυνθεί η οξειδωση και η εμφάνιση στιγμάτων. Το γυαλιστερό φινιρίσμα τύπου καθρέφτης δημιουργεί μια εντελώς λεία επιφάνεια, στην οποία η σκόνη και οι ρίπτοι δεν μπορούν να αποθηκευτούν.

Για βέλτιστη εγκατάσταση σε επιθετικά περιβάλλοντα, προσφέρουμε διαφορετικές λύσεις:

- βασική έκδοση (κωδικός χρώματος = 16) = βουρτσισμένος ανοξειδωτος χάλυβας 316L

- Μεσαία έκδοση (κωδικός χρώματος = 16G) = γυαλισμένο με καθρέπτη 316L ανοξειδωτο ατσάλι (γυαλιστερό)

- Υψηλή έκδοση + (κωδικός χρώματος = GEP) = γυαλιστερό καθρέπτη 316L από ανοξειδωτο χάλυβα (γυαλιστερό) + ηλεκτρο-στίλβωση  
Μην διστάσετε να ζητήσετε εξατομικευμένη προσφορά για τις εκδόσεις «Μεσαία» και «Υψηλή».

### Ηλεκτρο-στίλβωση ανοξειδωτου ατσαλιού

Ο ανοξειδωτος χάλυβας (304L ή 316L) εγκατεστημένος σε θαλάσσιο περιβάλλον είναι πολύ πιθανό να παρουσιάσει σημεία οξειδωσης σύντομα. Αυτή η καθαρά ηλεκτροχημική επεξεργασία αφαιρεί τις ακαθαρσίες και μειώνει την επιφάνεια με μικροδιαβροχοποίηση. Η επιφάνεια, ομαλότερη και πλουσιότερη σε χρώμιο, επιτυγχάνει μια λάμψη, αλλά και βέλτιστη και ανθεκτικότητα στη διάβρωση.

Αυτή η διαδικασία αυξάνει την ανθεκτικότητα του υλικού στη διάβρωση. Χρησιμοποιείται κυρίως στη χημική και φαρμακευτική βιομηχανία, καθώς και σε εξωτερικές και αρχιτεκτονικές εφαρμογές, όπως σκάφη, yachts, πισίνες και γενικά σε υδάτινο περιβάλλον. Μη διστάσετε να επικοινωνήσετε μαζί μας, για να μάθετε περισσότερα και να δείτε σε ποια από τα προϊόντα μας μπορεί να πραγματοποιηθεί αυτή η ιδιαίτερη επεξεργασία.

## Ορείχαλκος

Ο ορείχαλκος είναι ένα κράμα χαλκού και ψευδαργύρου. Το μέταλλο αυτό είναι πιο σκληρό από τον χαλκό και έχει φυσική κιτρινωπή εμφάνιση. Ο ορείχαλκος δημιουργεί ένα φυσικό στρώμα μαύρο-καφέ στην επιφάνειά του, για να προστατεύεται από τη διάβρωση όταν εκτίθεται σε εξωτερικό περιβάλλον.

## Αλουμίνιο (σειρά 6000)

Πρόκειται για κράμα αλουμινίου πυριτίου και μαγνησίου, το οποίο χρησιμοποιούμε κυρίως για τα προφίλ, σε διαφορετικό πάχος, στην παραγωγή μας. Παρουσιάζει εξαιρετική αντίσταση στην ατμοσφαιρική διάβρωση και έχει μια Ραφιναρισμένη όψη.

### Επεξεργασίες στο αλουμίνιο

● **Ανοδίσωση** : είναι η μετατροπή της επιφάνειας του αλουμινίου και η δημιουργία ενός τεχνητού στρώματος οξειδίου. Η διαδικασία γίνεται υπό απόλυτα ελεγχόμενες συνθήκες και έτσι αυτό το στρώμα οξειδίου είναι απολύτως ανθεκτικό και σκληρό για την προστασία του αλουμινίου.

Προτείνουμε 2 λύσεις:

- απλή ανοδίσωση (κωδικός = 32): **15 microns**

- διπλή ανοδίσωση (κωδικός = 32D) ή μαύρη ανοδίσωση (κωδικός = 02A) : **20+ microns «sea side»**

Αυτή η διπλή ανοδίσωση συνιστάται για εγκατάσταση σε επιθετικά περιβάλλοντα (παραθαλάσσια, δίπλα στην πισίνα, κ.λπ.)

Άλλα χρώματα με ανοδίσωση **20+ microns «sea side»** είναι το μπρονζέ (33), χρυσό ματ (34), πράσινο (35) και μπροντό (36).

Μην διστάσετε να ζητήσετε μια εξατομικευμένη προσφορά.

### **Χρωματικοί τόνοι σε φωτιστικά από ανοδιωμένο αλουμίνιο**

Τα φωτιστικά μας, με επεξεργασία ανοδίσωσης, κατασκευάζονται με μεγάλη προσοχή, προκειμένου να εξασφαλίσουν τόσο την αισθητική όσο και τη μακροβιότητά τους. Είναι σημαντικό να σημειώσουμε ότι ενδέχεται να παρατηρηθούν ελαφρές διαφοροποιήσεις στον χρωματικό τόνο, ακόμα και στο ίδιο φωτιστικό. Αυτές οι διαφορές είναι αποτέλεσμα της διαδικασίας της ανοδίσωσης, καθώς κάθε εξάρτημα μπορεί να έχει άλλο πάχος ή σύσταση. Έτσι η γνησιότητα των υλικών αποτυπώνεται στις ανεπαίσθητες διαφοροποιήσεις, που προσδίδουν έναν μοναδικό χαρακτήρα σε κάθε φωτιστικό. Εάν έχετε οποιαδήποτε ερώτηση ή χρειάζεστε περισσότερες πληροφορίες σχετικά με την επεξεργασία των προϊόντων μας, μην διστάσετε να επικοινωνήσετε μαζί μας.

● **Ηλεκτροστατική βαφή** : είναι ένα στρώμα πολυεστερικού χρώματος. Προηγείται η απολάδωση και επίστρωση με ειδικό αστάρι, πριν ξεκινήσουν τα πολλαπλά στάδια βαφής, ώστε να είναι ακόμα πιο ανθεκτική η όψη του στη διάβρωση.

Η BEL LIGHTING χρησιμοποιεί ανθεκτικά χρώματα πολυεστέρα από της AkzoNobel, σχεδιασμένα για αρχιτεκτονική εξωτερικών χώρων, όπου απαιτείται υψηλό επίπεδο αντοχής στις καιρικές συνθήκες και μακροχρόνια σταθερότητα χρώματος.

## Μάρμαρο Βελγίου

Στο Βέλγιο έχει χρησιμοποιηθεί για πάνω από 300 χρόνια στην κατασκευή κτηρίων. Η βελγική αυτή πέτρα είναι μέρος της βελγικής ιστορίας, που οι σχεδιαστές της Bel-Lighting επέλεξαν να χρησιμοποιήσουν στην κατασκευή των υλικών της.

Η μπλε πέτρα είναι ένα αναντικατάστατο υλικό εξαιρετικής ποιότητας και, όπως το ξύλο, αυξάνει την αξία της συν το χρόνο:

η διάβρωση και η πατίνα που δημιουργούνται συνεχίζουν να την ομορφαίνουν.

Τα φωτιστικά μας φέρουν την ετικέτα «True Belgian Blue Stone of Hainaut» με την τεχνική έγκριση και το πιστοποιητικό που έχει χορηγηθεί από το U.B.A.t.c.

## Χαλκός

Μαζί με τον χρυσό, ο χαλκός είναι το μόνο μέταλλο σε φυσικό χρώμα. Η φυσική εμφάνιση αυτού του μετάλλου έχει ένα κόκκινο χρώμα, που του δίνει μια ιδιαίτερη λάμψη. Έχει θερμική και ηλεκτρική αγωγιμότητα και εξαιρετική αντοχή στη διάβρωση του νερού, σε περιβάλλον θαλάσσια και οργανικά οξέα. Δεν έχει μαγνητικά χαρακτηριστικά. Ο χαλκός προστατεύει τον εαυτό του αναπτύσσοντας ένα στρώμα οπτικά καφέ-πράσινο, μια πατίνα, όταν εκτίθεται στο εξωτερικό περιβάλλον.

# ΣΥΣΤΑΣΕΙΣ ΓΙΑ ΤΗΝ ΕΞΩΤΕΡΙΚΗ ΣΥΝΔΕΣΗ



Η συναρμολόγηση και η σύνδεση των φωτιστικών πρέπει να γίνεται από εξειδικευμένο τεχνικό.

## Φωτιστικά δαπέδου

### ΣΥΝΔΕΣΗ

Τα φωτιστικά πρέπει να εγκατασταθούν και να συνδεθούν από ειδικευμένο τεχνικό.

Για να λειτουργήσει το προϊόν σας, πρέπει φυσικά να το συνδέσετε στο ρεύμα. Η σύνδεση του καλωδίου του στεγανού φωτιστικού με το ρεύμα θα πρέπει να γίνει με στεγανό διακλαδωτή, όπως καθορίζεται από την τιμή IP (International Protection) του προϊόντος. Η τιμή στεγανότητας αποτελείται από δύο ψηφία: το πρώτο ψηφίο δηλώνει την προστασία από τα στερεά αντικείμενα και το δεύτερο ψηφίο την προστασία από το νερό και την υγρασία.

Τα χωνευτά φωτιστικά δαπέδου τοποθετούνται συχνά σε μέρη που υπόκεινται σε κακές καιρικές συνθήκες, επομένως είναι επιτακτική ανάγκη:

- Να επιλέξετε μια λύση σύνδεσης με βαθμό στεγανότητας IP68.
- Να σφραγίσετε τη εξωτερικό περίβλημα του καλωδίου και όχι τους αγωγούς (κλώνους).
- Να χρησιμοποιήσετε ένα κουτί υποδοχής όταν είναι εγκατεστημένο στο έδαφος.

Σφάλματα προς αποφυγή:

- Χρήση μη συνδεδεμένων υποδοχών IP20 (φωτογραφία 1) ή μονωτικής ταινίας (φωτογραφία 2).
- Η αδιάβροχη σύνδεση δεν γίνεται πάνω στο περίβλημα του καλωδίου αλλά πάνω στους αγωγούς (φωτογραφίες 3 και 4).
- Η ρητίνη ή η μονωτική γέλη δεν είναι κατάλληλα χυτευμένη (φωτογραφία 5).

Μια μερική ή κακή μόνωση θα προκαλέσει εισχώρηση του νερού στο προϊόν μέσω του καλωδίου. Αυτό το φαινόμενο της εισροής του νερού από τους κλώνους του καλωδίου καταστρέφει τα ηλεκτρικά εξαρτήματα και δεν επιτρέπει πλέον τη σωστή λειτουργία του προϊόντος.



1



2



3



4



5

## IP68 ΣΤΕΓΑΝΟ ΚΟΥΤΙ ΔΙΑΚΛΑΔΩΣΗΣ

Ο ασφαλέστερος τρόπος για να επιτευχθεί μια αδιάβροχη σύνδεση IP68 είναι να συνδεθεί με ένα κητίο, στο οποίο θα τοποθετηθούν τα καλώδια και έπειτα θα συμπληρωθεί με ρητίνη. Αυτός ο τύπος πηκτής ηλεκτρικής μόνωσης συντελείται με τη χρήση δύο διαφορετικών ρητίνων, οι οποίες αναμιγνύονται (μονωτικό πήκτωμα δύο συστατικών). Η ειδική αυτή ρητίνη, που ρίχνεται στο κουτί διακλάδωσης, εξασφαλίζει ότι η σύνδεση και το σημείο γείωσης θα είναι πλήρως προστατευμένα από το νερό και την υγρασία.

Επίσης υπάρχει η δυνατότητα να γίνει η σύνδεση με σφραγισμένους συνδετήρες, οι οποίοι έχουν στεγανούς στυπιοθλίπτες καλωδίων. Ωστόσο, αυτή είναι μια λιγότερο ασφαλής λύση, καθώς το ενδεχόμενο διήθησης του νερού δεν είναι απίθανο.

Μόλις γίνει η σύνδεση στο στεγανό κουτί διακλάδωσης και, αφού έχετε δοκιμάσει το προϊόν σας αρκετές φορές, μπορείτε ρίξετε τη ρητίνη στο κουτί διακλάδωσης. ΠΡΟΣΟΧΗ Μην παραλείψετε την εκτέλεση αυτών των δοκιμών λειτουργίας του φωτιστικού, διότι, μόλις στερεοποιηθεί η ρητίνη, δεν θα υπάρχει η δυνατότητα να τις εκτελέσετε! Η συνδεσμολογία δεν θα μπορεί να τροποποιηθεί!



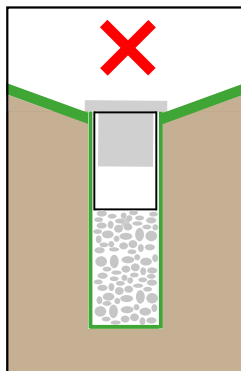
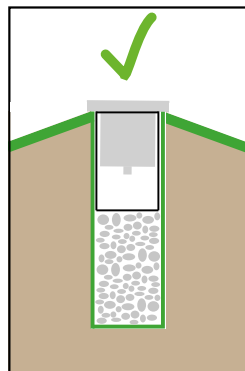
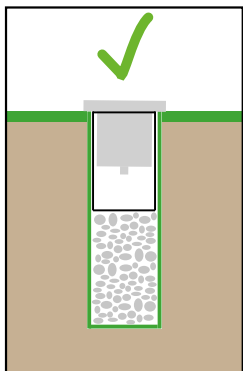
## ΣΤΕΓΑΝΟΣ ΣΥΝΔΕΤΗΡΑΣ (Connector box)

Αυτός ο σύνδεσμος, που αποτελείται από στυπιοθλίπτες καλωδίων, μπορεί να χρησιμοποιηθεί στην εσοχή ξύλινου πατώματος ή κάτω από αυτό, για να επιτευχθεί μια IP68 αδιάβροχη σύνδεση μεταξύ 2 ή 3 εύκαμπτων ελαστικών καλωδίων τύπου H07RN-F ή ισοδύναμου. Το πλεονέκτημα αυτού του τρόπου μόνωσης της σύνδεσης είναι ότι το εξάρτημα αυτό μπορεί να αφαιρεθεί.



## ΤΟΠΟΘΕΣΙΑ

Τα φωτιστικά δαπέδου με βαθμό προστασίας μικρότερο από IP68 δεν πρέπει ποτέ να τοποθετηθούν σε κοιλότητες. Τοποθετήστε τα σε επιφάνεια επίπεδη ή ανυψωμένη.



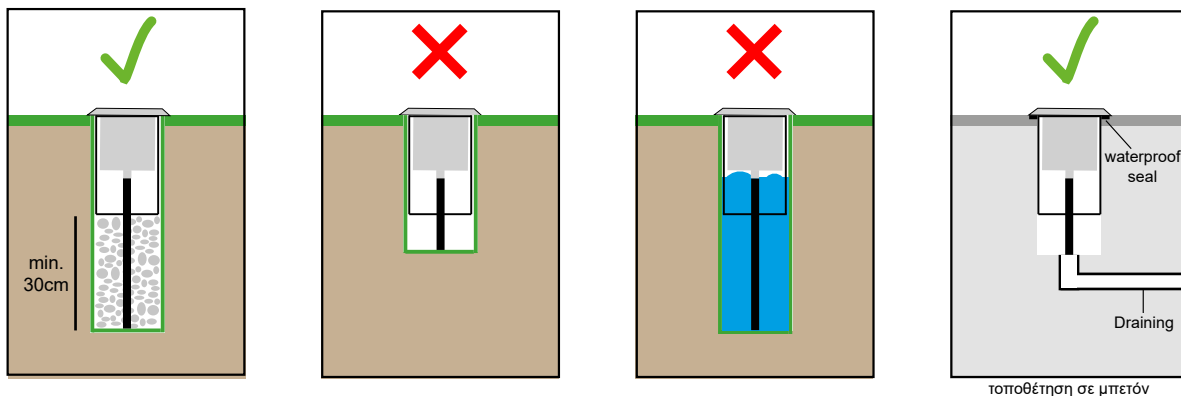
## ΠΡΟΣΟΧΗ

### Φωτιστικά IP68:

Η αποστράγγιση δεν είναι απαραίτητη, αλλά είναι σημαντικό να γνωρίζουμε ότι αυτά τα εξαρτήματα προορίζονται να βυθιστούν μόνιμα μόνο σε καθαρό νερό (σταθερού pH μη όξινου ή βασικού). Δεν έχουν σχεδιαστεί για να βυθίζονται σε χλωριωμένο νερό, θαλασσινό νερό ή οποιοδήποτε άλλο επιθετικό περιβάλλον.

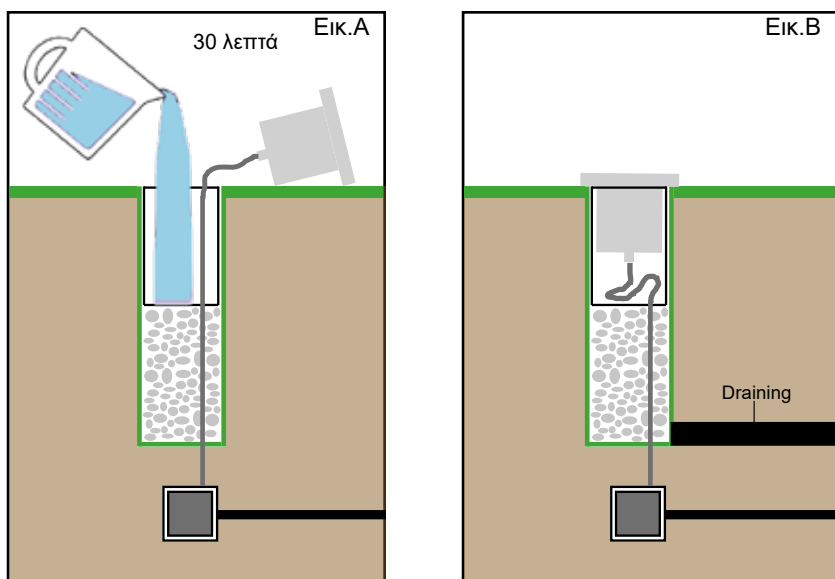
### Φωτιστικά IP67:

Για να διασφαλιστεί η καλή αποστράγγιση, εγκαταστήστε ένα στρώμα από χαλίκι και ελάχιστου βάθους 30cm κάτω από το κιτίο τοποθέτησης του φωτιστικού.



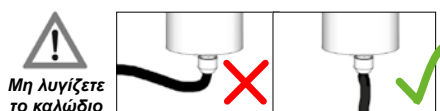
Συνιστούμε να εκτελέσετε την παρακάτω δοκιμή:

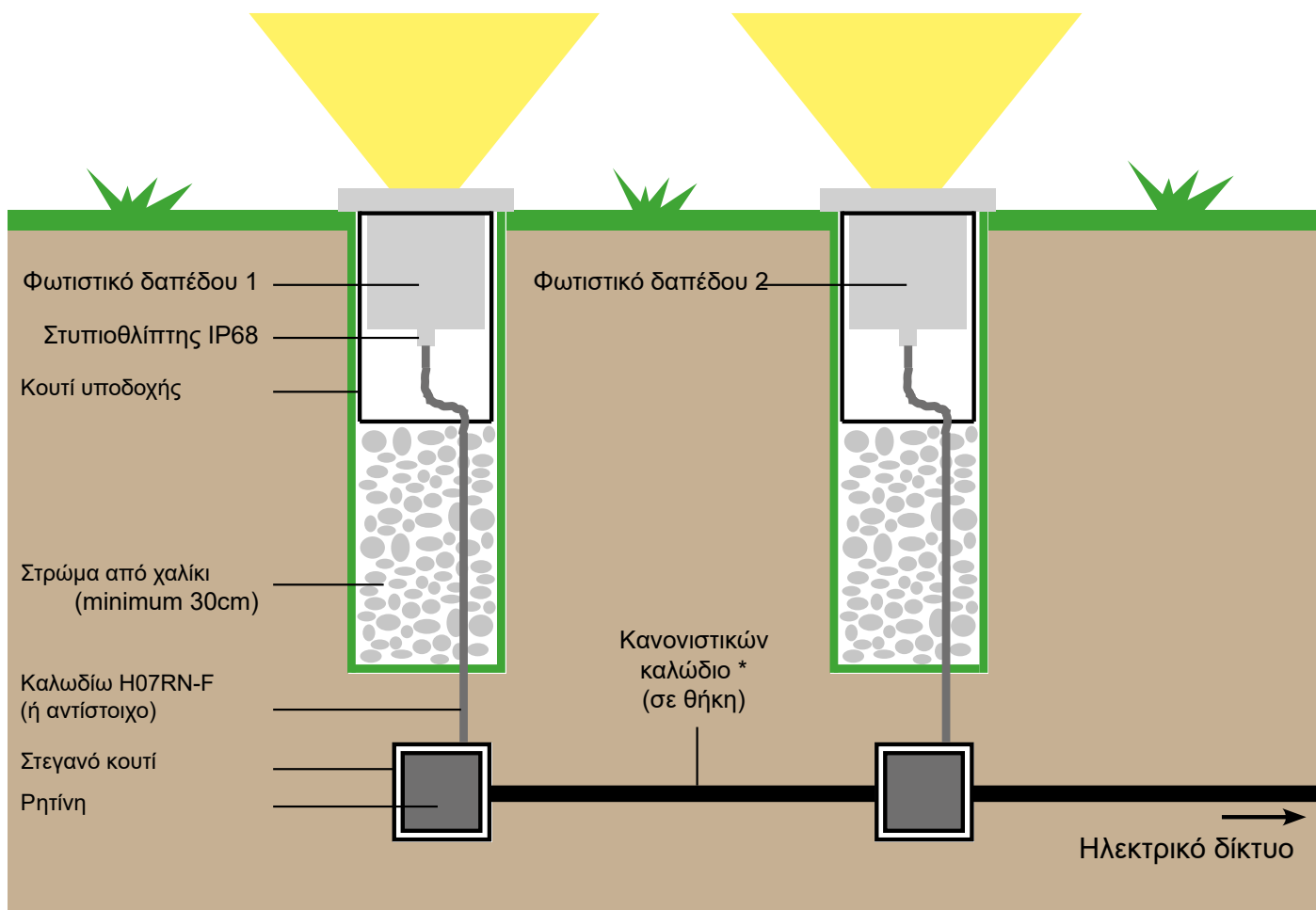
Γεμίστε την εσοχή με νερό (Εικ. Α) και βεβαιωθείτε ότι όλος ο όγκος του νερού έχει εξαλειφθεί μέσα σε 30 λεπτά. Διαφορετικά, απαιτείται πρόσθετη αποστράγγιση (Εικ.Β)



## ΣΗΜΑΝΤΙΚΟ

Για να εξασφαλιστεί μια καλή σφράγιση του στυπιοθλίπτη IP68 από τον οποίο εξέρχεται το καλώδιο, είναι σημαντικό να αφήσετε ένα επαρκές μήκος καλωδίου και όχι να διπλώσει το καλώδιο στο σημείο ακριβώς, που βγαίνει από τον στυπιοθλίπτη.





\* δείτε εθνικούς κανονισμούς.

### ΤΟ ΚΑΛΩΔΙΟ

Για να εξασφαλιστεί η στεγανότητα της σύνδεσης, με αδιάβροχους συνδέσμους ή στεγανό κουτί διακλάδωσης, είναι απαραίτητο να χρησιμοποιηθεί ένα εύκαμπτο καλώδιο τροφοδοσίας από καουτσούκ τύπου H07RN-F ή αντίστοιχο.

Προσοχή: μην αφαιρείτε ποτέ το εργοστασιακό καλώδιο, το οποίο είναι πάντα προσαρμοσμένο στο φωτιστικό. Διαφορετικά, η εγγύησή σας ακυρώνεται.

### ΒΑΘΟΣ ΧΩΝΕΥΣΗΣ ΚΑΛΩΔΙΩΝ ΡΕΥΜΑΤΟΣ

Καταρχάς, θα πρέπει να λάβουμε υπόψιν μας τους εθνικούς κανονισμούς.

Εδώ προτείνουμε:

- Για μια περιοχή, η οποία δεν είναι προσβάσιμη στα αυτοκίνητα: Τα καλώδια θα πρέπει να είναι τοποθετημένα εντός πλαστικών σωλήνων, που θα πρέπει να είναι θαμμένοι σε ελάχιστο βάθος 50 cm.

- Για μια περιοχή προσβάσιμη σε αυτοκίνητα ή σε περίπτωση που τα καλώδια θα τρέχουν κάτω από πεζοδρόμιο: Τα καλώδια θα πρέπει να είναι τοποθετημένα εντός πλαστικών σωλήνων, που θα πρέπει να είναι θαμμένοι σε ελάχιστο βάθος 80 cm.

Τα καλώδια της εγκατάστασης οφείλονται να είναι τοποθετημένα σε θήκη TPC (Σωλήνα Προστασίας Καλωδίων), περίβληματα πολυαιθυλένιου αποτελούμενο από ένα διπλό τοίχος που μπορεί να αντέξει τους κραδασμούς και τη σύνθλιψη.

Για την κάλυψη/θάψιμο των σωλήνων, στους οποίους θα τοποθετηθούν τα καλώδια της εγκατάστασης, πρέπει να χρησιμοποιηθεί χώμα ή άμμος. Σε καμία περίπτωση δεν θα πρέπει καλυφθούν από μεγάλες πέτρες, οι οποίες θα μπορούσαν να φθείρουν τις σωλήνες της εγκατάστασης.

### ΕΝΣΩΜΑΤΩΣΗ ΣΕ ΞΥΛΙΝΟ ΔΑΠΕΔΟ

Η διάτρηση του ξύλου, στο οποίο θα τοποθετηθεί το χωνευτό φωτιστικό, θα γίνεται με βάση τη διάμετρο διάτρησης (βλέπε φύλλο προϊόντος, εγχειρίδιο κ.λπ.), την οποία προτείνει η κατασκευάστρια εταιρεία.

Το βάθος κάτω από το ξύλινο δάπεδο πρέπει να επιτρέπει την ενσωμάτωση των σημειακών και αδιάβροχων συνδέσεων. Είναι επίσης απαραίτητο να εξασφαλιστεί η ύπαρξη επαρκούς χώρου κάτω από την εσοχή έτσι ώστε να αποφευχθεί η στασιμότητα του νερού και να μην καμφθεί το καλώδιο ακριβώς στην έξοδο του στηπιοθλίπτης.

# ΥΓΡΑΣΙΑ

Με εξαίρεση την περίπτωση μη ορθής σύνδεσης (όπως προβλέπεται από το φύλλο εγκατάστασης), η υγρασία είναι πάνω απ' όλα ένα φυσικό φαινόμενο.

Η κύρια αιτία εμφάνισής της είναι η τοποθέτηση των φωτιστικών σε περιβάλλον με έντονα υγρή ατμόσφαιρα. Δεδομένου ότι το προϊόν να είναι πλήρως στεγανό (βάση αυτού που αναφέρεται λχ IP65/IP67/IP68), δεν επιτρέπει στην υγρασία, που παρεισφύρει κατά την τοποθέτηση να εξέλθει. Ο ζεστός, υγρός αέρας, που εισέρχεται κατά την τοποθέτηση, με την αλλαγή της ατμοσφαιρικής θερμοκρασίας (εναλλαγή ψύχους-ζέστης), παρουσιάζεται στο εσωτερικό του φωτιστικού με τη μορφή υδρατμών (σταγονίδια νερού). Όταν το νερό εξατμίζεται, δημιουργεί έναν αύξοντα υδρατμό που μπορεί επηρεάζουν τα ηλεκτρικά εξαρτήματα. Μερικές φορές, αυτός ο υδρατμός μπορεί να προκαλέσει την εκκένωση του ηλεκτρικού μετρητή.

Μια γρήγορη αλλαγή στη θερμοκρασία δημιουργεί επίσης διαφορά πίεσης που επίσης μπορεί να δημιουργήσει συμπύκνωση. Το δεδομένο ότι η ατμοσφαιρική πίεση, η θερμοκρασία και η υγρασία του αέρα είναι σε μια σταθερά εναλλασσόμενη κατάσταση σαφώς και επηρεάζει το φωτιστικό, ανεξάρτητα από τη στεγανότητά του.

Η εγγύηση BEL Lighting δεν καλύπτει τη συμπύκνωση, εκτός εάν είναι γνωστό ότι η είσοδος νερού οφείλεται σε ελάττωμα εργοστασιακό/ κατασκευαστικό.

Σε περίπτωση συμπύκνωσης, πρέπει να ελέγξετε τα εξής:

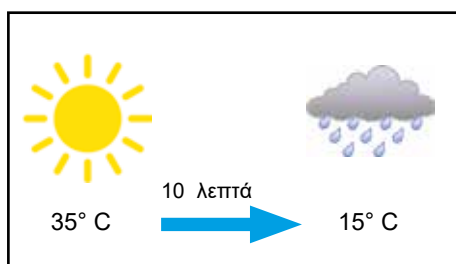
- Είναι σωστά τοποθετημένη η λάμπα;
- Οι σφραγίσεις είναι σωστά κλεισμένες, οι βίδες και το γυαλί αρκετά σφιχτά;
- Εάν πρόκειται για τερματικά, είναι πιθανό η υγρασία που έρχεται από το έδαφος να αποτελεί την αιτία του σχηματισμού της συμπύκνωσης.

Στις περισσότερες από τις κολώνες και τις απλίες μας, χρησιμοποιούμε γυαλιά «αμμοβολισμένα», στα οποία είναι ορατές οι υγροποιήσεις.

Για τον λόγο αυτό συνιστάται κατά την εγκατάσταση:

- Τοποθετείστε και συναρμολογήστε τα προϊόντα σε περιόδους χωρίς υγρασία (ξηρός καιρός).
- Ελέγξτε την κατάσταση σύσφιξης όλων των τμημάτων και των καλωδίων (συνδέσεις).
- Συμμορφωθείτε με τις συστάσεις για την εξωτερική καλωδίωση

**Σε περίπτωση αμφιβολίας, απευθυνθείτε πάντα σε εξειδικευμένους τεχνικούς.**



## ΣΥΝΤΗΡΗΣΗ

Απαιτείται τακτικός καθαρισμός, πάντοτε με κατάλληλα προϊόντα, για τη διατήρηση της όψης της επιφάνειας του φωτιστικού. Ποτέ μην χρησιμοποιείτε ισχυρά καθαριστικά ή χημικά διαλύματα, τα οποία μπορεί να φθείρουν την επιφάνεια του μετάλλου.

Συνιστούμε τη χρήση ενός υγρού πανιού (κατά προτίμηση μικροϊνών) ή δέρματος σαμούα για τη συντήρηση και τον καθαρισμό εξαρτημάτων από ανοξείδωτο χάλυβα, ορείχαλκο ή χαλκό.

Κατά τη διαδικασία συντήρησης/καθαρισμού, εάν παρατηρήσετε:

- Ένα ραγισμένο, σπασμένο ή ξεφλουδισμένο προστατευτικό γυαλί
- Ένα φαγωμένο καλώδιο τροφοδοσίας
- Οποιαδήποτε φθορά στα σπειρώματα ή σε άλλα συνδετικά μέρη του φωτιστικού

Ενημερώστε την εταιρεία και φροντίστε να απεγκατασταθεί το φωτιστικό, ώστε να σταλθεί προς έλεγχο και επισκευή.

Σε περίπτωση φθοράς οποιουδήποτε εξαρτήματος ενός φωτιστικού, αρμόδια για την επισκευή και την τοποθέτηση νέου εξαρτήματος (ανταλλακτικού) είναι μόνο η εταιρεία κατασκευής.

**Παραδείγματα φωτιστικών πριν και μετά τον καθαρισμό με το προϊόν «POLI INOX»**



INOX



ΟΡΕΙΧΑΛΚΟΣ











## INDEX BY NAME

Name	page	Name	page	Name	page
Alina	284	Cylo G1	164	KitBox IP68	476
Anti-glare	466	Cylo G2	165	Koba 1	106
Artist	356	Cylo K1	162	Koba 2	107
Astro 1	138	Cylo K2	163	Koba TR	54
Astro 2	140	Cylo TR	62	Kozi F	454
Atlantic D	178	Detector Dim-M	468	Kozi FL	316
Atlantic FL	328	Detector Dim-S	468	Kozi S	204
Atlantic G	178	Detector On-Off	468	Krypto 1	82
Banio	46	Dion	270	Krypto 2	84
Base 100-A	464	Disco	98	Krypto 3	86
Base 100-B	462	Disk	278	Krypto Box 2	475
Base 100-C	462	Doombo	100	Krypto Box 3	475
Base 100-D	462	Driver AC-CC-200mA	479	Led bulb E27	476
Base 100-K	460	Driver AC-CC-250mA	479	Lena GU-A	222
Base 100-L	460	Driver AC-CC-300mA	479	Lena GU-B	224
Base 200-A	460	Driver AC-CC-350mA	480	Lena Pro-M-A	218
Base 200-B	460	Driver AC-CC-500mA	481	Lena Pro-M-B	220
Base 50-A	461	Driver AC-CC-700mA	482	Lena Pro-S-A	214
Base 50-B	461	Driver AC-CC-multi-DALI	482	Lena Pro-S-B	216
Base 60-A	464	Driver AC-DC-24V	483	Lens 01	467
Base 60-B	464	Driver DC-CC-350mA	483	Lens 02	467
Base 75-A	461	Driver DC-CC-500mA	483	LightSaber	274
Base 75-B	461	Driver DC-CC-700mA	483	LightSaber D	154
Base 75-C	461	Easyfix	470	Line-Up	234
Base Strap	464	Ecopic	472	Lotus A	196
Beto 230V	49	Elyo FL	362	Lotus B	196
Beto GU	50	Faki K	80	Lotus C	196
Beto mA	48	Faki R	80	Lotus D	198
Big Seven	302	Fanari	170	Lotus E	198
Bolas	420	Fanari P	76	Louver	474
Bolas F	452	Fanfan 1	110	Mani R	192
Bolas H	386	Fanfan 2	110	Manix D	174
Bolas H 230V	388	Fix 01	471	Manix FL	324
Bolas HP led	418	Fix 02	471	Manix G	174
Bolas Led 230V	416	Fix 03	471	Marina-O	188
Bolas O-HPL	439	Fix 04	470	Marina-R	189
Bolas V	386	Fly	104	Max	146
Bolas V 230V	388	Fly D	152	Max FL	318
Bolas X	386	Focus	374	Max TR	372
Bolas X 230V	388	Gasket 1	473	Maxima-100	230
Cable 01	477	Gasket 2	473	Maxima-50	226
Cable 03	477	Gasket 3	473	Maxima-65	228
Cable 04	477	Gasket 4	473	Maxima-GU	232
Cambridge A	186	Gasket 5	473	Micro TR	370
Cambridge B	186	Genesis	394	Mini Astro 1	136
Cambridge FL	350	Globe M	158	Mini Astro 2	136
Circo	44	Globe S	156	Mini Fanari	168
Cobus A	190	Goliath K	286	Mini Fanari P	74
Cobus B	190	Goliath R	286	Mini Swapi	272
Cobus C	190	Hydro	90	Moon 1	112
Cobus D	190	ifi M	42	Moon 2	112
Connex 2	476	ifi S	40	Nautic M	446
Connex 3	476	ilva	92	Nautic S	444
Connex 4	476	Indy	304	Nomad 1	364
Connex 5	476	IR Dim	468	Nomad 2	332
Connex 6	476	IR On-Off	468	Octus O	194
Cookie 1	108	Jaka GT	58	Octus X	194
Cookie 2	109	Jaka GU1	120	Okio 1	114
Cover 180 Ulyss	469	Jaka GU2	120	Okio 2	114
CoverSab 1	469	Jaka GU4	120	Omega 1	130
CoverSab 2	467	Jaka M1	118	Omega 2	130
Cube 1L	142	Jaka M2	118	Onyx D	172
Cube 2L	144	Jaka M4	118	Onyx FL	322
Cube Bis	142	Jaka MT	56	Paco	66
Cube TR	64	Jaka S1	116	Paso	38
Cylinder S	244	Jaka S2	116	Perla-R Dark	408
Cylo 1	160	Jaka S4	116	Perla-S Dark	410
Cylo 2	161	Keyko	122	Phantom	294

## INDEX BY NAME

Name	page	Name	page	Name	page
Pharos H	390	Tango R-X	382		
Pharos H 230V	392	Target	376		
Pharos V	390	Teka	148		
Pharos V 230V	392	Tekno	34		
Pharos X	390	Tini 1	30		
Pharos X 230V	392	Tini 2	30		
Pic 1	472	Tini 3	30		
Pic 2	472	Torga D	126		
Pic 3	472	Torga FL	296		
Pic 4	463	Torga L	354		
Pic 5	473	Ulyss	334		
Pic 6	473	Ulyss Pro	336		
Poco S	36	Visor HC	474		
Poco T	36	Wally-S	132		
Poeme D	184	Wally-XL	134		
Poeme FL	290	Welex C1	236		
Pop	474	Welex C2	238		
Quadris	94	Welex F1	240		
Recto 2	140	Welex F2	242		
Sabri FL	348	Xeno F	450		
Salsa	256	Xeno R	402		
Salsa base	466	Xeno S	404		
Salsa-S	268	Xeno Y	406		
Sami	208-262	Yorka A	88		
Sami AG	469	Yorka B	89		
Sami-flex	212-266	Yorka C	88		
Sami-flex AG	469	Yorka D	88		
Sampa D	124	Yorka E	88		
Sampa D-Pro	128	Yorka F	89		
Sampa FL	308	Zax-S 10°	254		
Sampa L1	358	Zaxor 10°	430		
Sampa L2	360	Zaxor GZ	422		
Sampa Pro	310	Zaxor GZ0	424		
Sarm FL	320	Zaxor HP led	436		
Saturn F	456	Zaxor led (220-240V)	428		
Saturn HP led	250	Zaxor led (xxx mA)	426		
Saturn HP led 230V	252	Zaxor led-O (220-240V)	434		
Saturn Led	248	Zaxor led-O (350mA)	432		
Seven	300	Zaxor Mini (220-240V)	414		
Soled	68	Zaxor Mini (350mA)	412		
Sonar	280	Zaxor O-HP led	440		
Spirit D	182	Zebra D	176		
Spirit FL	344	Zebra FL	326		
Spirit KD	182	Zebra G	176		
Spirit KFL	288	Ziko	96		
Spirit RD	182	Zona F	448		
Spirit RFL	346	Zona H	380		
Stem A	464	Zona R	396		
Stem B	464	Zona R Dark	398		
Stem C	463	Zona S	400		
Stem D	463	Zona V	378		
Stem E	464	Zona X	380		
Stepan	102				
Stic	470				
Stoumpi	282				
Strato	292				
Strouggi	166				
Sumo D	180				
Sumo FL	340				
Sumo RD	180				
Sumo RFL	342				
Swapi	276				
Swing	202				
Tango K-H	384				
Tango K-V	384				
Tango K-X	384				
Tango R-H	382				
Tango R-V	382				

## INDEX BY CODE

Code	page	Code	page	Code	page
1101.	96	352.	254	7021.	212-266
1102.	94	357.	282	7022.	276
1107.	370	360F.	444	7024A.	214
111.	192	361F.	446	7024B.	216
1120A.	194	362.	408	7025A.	218
1122A.07	194	363H.	390	7025B.	220
1134.	190	363V.	390	7026A.GU.	222
1135.	190	363X.	390	7026B.GU.	224
1137.	190	364H.	392	709.E2.07	188
1138.	190	364V.	392	715.	322
114.5.07	186	364X.	392	725.E2.07	189
114.6.07	350	365.	374	729.	178
114.7.07	350	366.	280	752.	148
1152.	394	367.	376	753.	146
1153.	394	368.	410	756.	372
1155.	98	370.	116	761.E2.04	176
1165.	44	371.	116	764.	326
117.5.07	186	373.	116	798.2G.04	176
117.6.07	350	375.	118	8008.	126
117.7.07	350	376.	118	8009.1	296
1187.	82	378.	118	8009.2	296
1188.	84	379.	56	8009.5	354
1189.	86	381.	170	800C1	416
120.	196	382.	168	800C1GU	420
122.	196	383.	274	8010.	88
125.	196	383.AC1.	469	8011.	89
134.	198	384.	154	8018.	320
138.	198	384.AC1.	467	8019.1.	290
173.	178	385.GU.	120	8019.2.	290
180.	328	386.GU.	120	8019.E27.	184
212.	348	388.GU.	120	802.00.02	472
217.	362	389.GU.	58	8022.	396
2201	422	390.	62	8022D.	398
2211	424	391.	76	8022F.	448
2257	412	392.	74	8023.	400
2258	414	393.	272	8024.	402
2277.	426	394.	270	8024F.	450
2278.	428	395.	236	8024Y.	406
240.	244	396.	238	8025.	404
2407.	432	397.	240	8028.	418
2408.	434	398.	242	8028F.	452
2417 .16	436	400.	166	8028H.	386
2427 .16	440	401.	30	8028V.	386
2437 .16	439	402.	30	8028X.	386
2438 .16	439	403.	30	8029.	250
312.30.	202	404.	36	8029F.	456
322.	294	405.	36	803.00.02	472
323.	108	406.	40	8031.	208-262
324.	108	407.	42	8034.	140
326.	92	410.	48	8035.	140
327.	110	411.	49	8036.	124
328.	110	412.GU.	50	8037.	308
329.	112	413.GX.	46	8037D1.	310
330.	112	7001.	232	8037D3.	310
332.	102	7002.	228	8037P1.	310
339.	100	7003.	230	804.00.32	472
340.	278	7004.	226	804.04.02A	463
341.	104	7006.	248	804.05.02A	473
342.	152	7007.	234	804.06.GZ	473
343.	156	701.	172	8041. 40.	114
344.	158	7010.	356	8041. 80.	114
345.	38	7011.	132	8042.	204
346.	160	7012.	134	8042F.	454
347.	162	7016.W .16	430	8043.	316
348.	160	7017.	358	8045.	106
349.	162	7018.	330	8047.	54
350.	164	7019.	332	8049.	106
351.	164	7020P1.	128	805.00.07	472

## INDEX BY CODE

Code	page	Code	page	Code	page
8053	138	AC.FX23.GZ	471	X016A	474
8054	136	AC.FX24.GZ	470	X016B	474
8055	136	BASE.050A	461	X053	474
8056	122	BASE.050B	461	X054A	474
8057	88	BASE.060A	464	X054B	474
8058	88	BASE.060B	464	X055A	474
8059	88	BASE.075A	461	X055B	474
8060	89	BASE.075B	461	X056	474
8062	90	BASE.075C	461	X057	474
8064	302	BASE.100A	464	X060	474
8065	300	BASE.100B	462	X061	474
8066	304	BASE.100C	462	X064	475
8067	292	BASE.100D	462	X065	475
8082K	80	BASE.100K	460	X067A	474
8082R	80	BASE.100L	460	X067B	474
8083R	34	BASE.200A	460	X082	476
8084H	380	BASE.200B	460	X082.Y	476
8084V	378	DC0200.008.20D0	479	X083	476
8084X	380	DC0250.010.20D0	479	X100A	470
8085H	382	DC0300.012.20D0	479	X121	476
8085V	382	DC0350	480	X131	476
8085X	382	DC0500	481	X132	476
8087H	384	DC0700	482		
8087V	384	DD24	483		
8087X	384	DET.D1	468		
8090	68	DET.D2	468		
8091	256	DET.D3	468		
8092	268	DET.IR.D1	468		
902.GU	142	DET.IR.D3	468		
904.GU	142	DL0350.011.67D8	483		
906.GU	64	DL0350.044.44D8	483		
907.GU	144	DL0500.016.67D8	483		
909SA	66	DL0500.044.44D8	483		
910SA	130	DL0700.044.44D8	483		
913SA	130	DP0700.025.20D3	482		
935	324	DP0700.025.67D3	482		
942	174	DP0700.040.20D3	482		
944	174	DP0700.060.20D3	482		
950	182	DP1050.040.67D3	482		
951	288	GK.100X080	473		
953	182	GK.100X100	473		
954	346	GK.180X080	473		
962	180	GK.200X100	473		
963	342	GK.200X200	473		
969	334	LED.E201.10830	476		
969.AC01.02A	469	SUP.001	477		
969D1	336	SUP.003	477		
969D3	336	SUP.005	477		
969P1	336	TI.010.M10A	464		
970.E2.04	182	TI.010.SPK	464		
971	344	TI.020.M10A	464		
972	180	TI.020.SPK	464		
973	340	TI.050.M10A	464		
975	318	TI.050.SPK	464		
982	284	TI.080.Z	464		
986.E2	286	TI.100.M10A	464		
987.E2	286	TI.100.SPK	464		
AC.7001.AG	466	TI.130.Z	464		
AC.7002.AG	466	TI20.020.M1	463		
AC.7003.AG	466	TI20.020.SK	463		
AC.7012.1	467	TI20.050.M1	463		
AC.8029.AG	466	TI20.050.SK	463		
AC.8041.32	467	TI20.100.M1	463		
AC.8042.AG	466	TI20.100.SK	463		
AC.8091	466	X004	470		
AC.FX01.02A	464	X012	474		
AC.FX21.GZ	471	X013	474		
AC.FX22.GZ	471	X015	474		

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Others worldwide partners, visit our website [www.bel-lighting.com](http://www.bel-lighting.com)



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## COLOR CODE



00		Brushed natural aluminium	Natuur geborsteld aluminium	Aluminium brossé naturel	natuur gebürstet aluminium	Φυσικο Αλουμινιο
01		White	Wit	Blanc	Weiß	Λευκο
02		Black	Zwart	Noir	Schwarz	Μαυρο
02A		Anodized black	Geanodiseerd zwart	Noir anodisé	Schwarz eloxiert	Ανοδιωμενο Μαυρο
04		Brushed Stainless Steel	Geborsteld Inox	Inox brossé	Edelstahl gebürstet	Ανοξειδωτο
07		Brushed brass	Geborsteld Messing	Laiton brossé	Messing gebürstet	Φυσικος ορειχαλκος
16		Stainless Steel 316L	Inox 316L	Inox 316L	Edelstahl 316L	Ανοξειδωτο 316L
21		Brushed Copper	Geborsteld Koper	Cuivre brossé	Kupfer gebürstet	Φυσικος χαλκος
22		Brown	Bruin	Brun	Braun	Καφε
24		Corten (color)	Corten (kleur)	Corten (couleur)	Corten (Farbe)	Corten (χρωμα)
32		Anodised aluminium	Geanodiseerd aluminium	Anodisé aluminium	Eloxierte Aluminium	Ανοδιωμενο αλουμινιο
33		Anodised bronze	Geanodiseerd brons	Anodisé bronze	Eloxiert Bronze	Ανοδιωμενο μπρονζε
34		Anodised matt gold	Geanodiseerd mat goud	Anodisé doré mat	Eloxiert Mattgold	Ανοδιωμενο χρυσο ματ
35		Anodised green	Geanodiseerd groen	Anodisé vert	Eloxiert Grün	Ανοδιωμενο πρασινο
36		Anodised burgundy	Geanodiseerd bordeaux	Anodisé bordeaux	Eloxiert Burgunderrot	Ανοδιωμενο μπορντο
39		Grey	Grijs	Gris	Grau	Γκρι
40		Rusty Iron	Roestig Ijzer	Acier rouillé	Rostigen Eisen	Σκουριασμένο Σίδηρο
41		Belgian stone	Blauwe steen	Pierre bleue	Stein aus Belgien	Μαρμαρο Βελγιοι
48		Dark Grey	Donker grijs	Gris foncé	Dunkelgrau	Σκούρο γκρι

- The colors and finishes presented in this catalog are purely indicative. For a real rendering, please refer to our BEL Lighting color sample booklet.
- Les coloris et les finitions sont présentés à titre purement indicatif dans ce catalogue. Pour un rendu réel, merci de se reporter à notre livret nuancier BEL Lighting.
- De in deze catalogus getoonde kleuren en afwerkingen zijn louter indicatief. Voor een realistische weergave kunt u onze BEL Lighting kleurenstaalboekje raadplegen.
- Die in diesem Katalog dargestellten Farben und Oberflächen sind lediglich Richtwerte. Eine echte Darstellung finden Sie in unserer Farbmusterheft von BEL Lighting.
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## LEGEND

	Fixture Class 1	Toestel klasse 1	Appareil classe 1	Gerät klasse 1	Κλαση 1
	Fixture Class 3	Toestel klasse 3	Appareil classe 3	Gerät klasse 3	Κλαση 3
<b>CE</b>	CE Standard	CE Norm	Norme CE	CE Norm	CE
<b>IP</b> __	Degree of protection	Beschermingsindicatie	Degré de protection	Schutzklassel	Βαθμος στεγανωτητας
	Distance to another object	Afstand tot een pbject	Distance d'un autre objet	Abstand zu einem objekt	Αποσταση αντικειμενου
	Net Weight Kg	Netto gewicht Kg	Poids net Kg	NettoGewicht Kg	Βαρος Κιλο



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