

ILUMINACIÓN LED

# CATÁLOGO GENERAL

GENERAL CATALOGUE  
CATÁLOGO GERAL

---

EMPRESA / COMPANY / EMPRESA

6

CERTIFICADOS / CERTIFICATES / CERTIFICADOS

10

 DOWNLIGHT / DOWNLIGHT / DOWNLIGHT

12

 PANEL / PANEL / PANEL

40

 FOCO CARRIL / TRACK LIGHT / FOCO CARRIL

58

 CAMPANA / HIGH BAY / CAMPANA

78

 PANTALLA ESTANCA / TRI-PROOF LIGHT / LUMINARIAS ESTÁNCIAS

96

 PROYECTOR / PROJECTOR / PROJECTOR

102

 SUDOKU / SUDOKU / SUDOKU

110

 VIAL / VIAL / VIAL

122

 FACHADA / FACADE / FACHADA

142

 ATEX / ATEX / ATEX

148

 COMPLEMENTOS / ACCESSORIES / ACESSORIOS

164

---

NORMATIVA ATEX / ATEX REGULATION / REGULAÇÃO ATEX

168

---

SIMBOLÓGIA / SYMBOLS / SIMBOLOGIA

174

---

PROTECCIÓN IP / IP PROTECTION / IP PROTECÇÃO

176

---

NIVELES DE ILUMINACIÓN RECOMENDADA / RECOMMENDED LIGHTING LEVELS / NÍVEIS DE ILUMINAÇÃO  
RECOMENDADOS

178

## DL / DOWNLIGHT / DOWNLIGHT



FIJI 8W  
PAG. 14



MAUI 22W  
PAG. 20



CRETE 38W  
PAG. 24



MARK 43W  
PAG. 30



COOCK 12W  
PAG. 36



COOCK 15W  
PAG. 37



COOCK 20W  
PAG. 38



COOCK 28W  
PAG. 38



COOCK 15W  
PAG. 40



COOCK 20W  
PAG. 40



COOCK 28W  
PAG. 41

## PNL / PANEL / PANEL



MARION 60X60 40W  
PAG. 48



MARION 120X30 40W  
PAG. 48



MARION 120X60 72W  
PAG. 50



SYLT 18W  
PAG. 54

## FOCO CARRIL / TRACK LIGHT / FOCO CARRIL



NIXIFIRE 35W  
PAG. 61



JETFIRE 22W  
PAG. 68



JETFIRE 35W  
PAG. 69



CARRIL TRIFÁSICO  
PAG. 72

## CMPNA / HIGH BAY / CAMPANA



UFO 100W  
PAG. 82



UFO 160W  
PAG. 82



UFO 200W  
PAG. 84



UFO 240W  
PAG. 84



GRID 125W  
PAG. 90



GRID 155W  
PAG. 90



NSF 100W  
PAG. 94



NSF 150W  
PAG. 94

## PNTLLA ESTNCA / TRI-PROOF LIGHT / LUMINARIAS ESTNQUES



PRO 40W  
PAG. 100



PRO 50W  
PAG. 100



HADES 30W  
PAG. 106



HADES 50W  
PAG. 106



HADES 70W  
PAG. 107



HADES 100W  
PAG. 107



HADES 120W  
PAG. 108



HADES 150W  
PAG. 108



**HADES 200W**  
PAG. 109

### SUDOKU / SUDOKU / SUDOKU



**SUDOKU 40W**  
PAG. 114



**SUDOKU 80W**  
PAG. 114



**SUDOKU 120W**  
PAG. 115



**SUDOKU 160W**  
PAG. 115



**SUDOKU 240W**  
PAG. 116



**SUDOKU 360W**  
PAG. 116



**SUDOKU 480W**  
PAG. 117



**SUDOKU 640W**  
PAG. 117



**SUDOKU 960W**  
PAG. 118

### VIAL / VIAL / VIAL



**STAR 30W**  
PAG. 126



**STAR 60W**  
PAG. 126



**STAR 80W**  
PAG. 127



**STAR 100W**  
PAG. 127



**STAR 120W**  
PAG. 128



**SOURCE 32W**  
PAG. 131



**SOLAR 20W**  
PAG. 140



**SOLAR 30W**  
PAG. 140

### FACHADA / FACADE / FACHADA



**WALL-WASHER 24W**  
PAG. 142



**WALL-WASHER 48W**  
PAG. 142

### ATEX / ATEX / ATEX



**BROWN BEAR**  
PAG. 150



**FROG**  
PAG. 152



**POLAR BEAR**  
PAG. 156



**SWORDFISH**  
PAG. 160

### COMPLEMENTOS / ACCESSORIES / ACESSORIOS



**KIT EMERGENCIA**  
PAG. 166



**ILUMINACIÓN EMERGENCIA**  
PAG. 166

# EMPRESA

Led's Go Project S.L. es una empresa española dedicada al diseño, fabricación y distribución de iluminación LED a nivel europeo. Contamos con equipos técnicos profesionales para el desarrollo de todo tipo de proyectos en el sector de la iluminación.

Led's Go Project, S.L nace en el 2011 con la finalidad de impulsar estrategias de mejora a nivel estatal y contribuir a reducir el consumo eléctrico y la contaminación. En definitiva, nos lleva a alcanzar la máxima eficiencia energética en términos de iluminación.

Nuestro Know How y el trabajo en equipo nos ha llevado a alcanzar el mercado europeo. Desde el primer día apostamos por diseños ergonómicos y productos de primera calidad.

Nuestros propósitos son:

Satisfacer las expectativas del cliente a través de nuestros sistemas de control inteligentes, que permitan reducir las emisiones de CO<sub>2</sub> a la atmósfera.

Ofrecer la máxima fiabilidad a través de las certificaciones en sistemas ISO 9001 e ISO 14001 para garantizar la calidad de los procesos y el respeto por el medio ambiente. Nuestros datos nos avalan, con un cierre del ejercicio anterior por debajo del 1% en incidencias.

El objetivo principal de Led's Go Project es conseguir la plena satisfacción de los clientes. Por este motivo nuestro departamento de I+D trabaja día a día para ser pioneros en innovación y obtener una mejora de calidad continua cumpliendo siempre con los estándares y normativas vigentes.

Habiendo cumplido los 6 años el pasado 2017, hemos conseguido ser un referente como empresa en el mercado español, realizando instalaciones en diferentes sectores de actividad. El sector público, industrial o deportivo son algunos de los ejemplos así como en otras instalaciones tanto de interior como de exterior, públicas y privadas.

La globalización es el próximo paso, no solo hemos adaptado nuestra red comercial, sino que todos los departamentos de la empresa están orientados a este objetivo, la información disponible en 5 idiomas y la incorporación de tecnologías como la gestión de almacén inteligente, nos catapultan hacia Europa, abriendo red comercial, en Italia y Francia sin olvidar Portugal y Bélgica, y con la sede de expansión en Holanda.



# COMPANY

Led's Go Project, SL is a Spanish company specialized in the design, manufacture and distribution of LEDs across European. Our professional technical teams development all types of projects in the lighting sector.

Led's Go Project, SL was set up in 2011 with the aim of promoting improvement strategies nationally and contributing to the reduction of electricity consumption and pollution. In short, we seek to obtain maximum energy efficiency in terms of lighting.

Our know-how and teamwork have led us to the European market. From the first day, we focused on ergonomic designs and top quality products.

Our aims are:

To satisfy customer expectations using our intelligent monitoring systems, which reduce CO<sub>2</sub> emissions to the atmosphere.

To provide maximum reliability through ISO 9001 and ISO 14001 systems certifications to guarantee the quality of processes as well as respect for the environment. Our data support us, with the results of the last year in which we had less than 1% of incidents.

The main objective of Led's Go Project is to ensure complete customer satisfaction. Our I+D department strives to be leaders in innovation and to achieve continuous quality improvement while complying with current standards and regulations.

We celebrated our sixth anniversary in 2017. In these six years, our company has become a pacesetter for the Spanish market where we install facilities across several sectors. We have worked with the public, industrial and sports sectors, among others as well as in other facilities both indoor and outdoor, public and private.

The next step is globalization. Not only has our commercial network been adapted, all departments across the company are focused on this objective with the information available in 5 languages and the incorporation of technologies such as intelligent warehouse management provide a springboard to Europe. We have opened comercial networks in Italy and France, without forgetting Portugal and Belgium, having the headquarters for this expansion in Netherlands.

# EMPRESA

Led's Go Project SL é uma empresa espanhola dedicada ao design, fabrico e distribuição de LED ao nível europeu. Dispomos de equipas técnicas profissionais para o desenvolvimento de todos os tipos de projetos no setor da iluminação.

A Led's Go Project, SL nasceu em 2011 com o objetivo de promover estratégias de melhoria ao nível estatal e contribuir para reduzir o consumo de energia elétrica e a poluição. Em suma, procuramos a maneira de obter a máxima eficiência energética em termos de iluminação.

O nosso know-how e o trabalho em equipa levaram-nos a alcançar o mercado europeu. Desde o primeiro dia, apostamos em projetos ergonómicos e produtos de primeira qualidade.

**Os nossos objetivos são:**

Satisfazer as expectativas do cliente através dos nossos sistemas de controlo inteligentes, que permitem reduzir as emissões de CO<sub>2</sub> para a atmosfera.

Oferecer a máxima fiabilidade através das certificações em sistemas ISO 9001 e ISO 14001 para garantir a qualidade dos processos, como o respeito pelo meio ambiente.

Os nossos dados apoiam-nos, com um fecho do ano anterior abaixo de 1% em incidentes.

O objetivo principal da Led's Go Project é alcançar a satisfação total do cliente. Por essa razão, o nosso departamento de I+D trabalha todos os dias para sermos pioneiros em inovação e obtermos uma melhoria contínua da qualidade, sempre em conformidade com os padrões e regulamentações atuais.

Tendo cumprido os seis anos em 2017, conseguimos tornar-nos uma referência como empresa no mercado espanhol, realizando instalações em diferentes setores de atividade. O setor público, industrial ou desportivo são alguns dos exemplos, assim como outras instalações internas e externas, públicas e privadas.

A globalização é o próximo passo: não apenas adaptámos a nossa rede comercial, como todos os departamentos da empresa estão focados nesse objetivo, as informações estão disponíveis em cinco idiomas e a incorporação de tecnologias como a gestão inteligente de armazéns, tudo nos catapultou para a Europa, abrindo uma rede comercial em Itália e em França, sem esquecer Portugal e Bélgica, e com a sede da expansão na Holanda.

# CERTIFICADOS / CERTIFICATES / CERTIFICADOS

Sistema Integrado de Gestión de Residuos de Aparatos Eléctricos y Electrónicos



C/Pedro Aleixandre, 60 Bajo · 46006 Valencia  
Teléfono: 963 746 642 - Fax: 963 281 406  
info@eco-raee.com / www.eco-raee.com



## REGISTRO NACIONAL DE PRODUCTORES DE APARATOS ELÉCTRICOS Y ELECTRÓNICOS

### CERTIFICADO DE INSCRIPCIÓN

La FUNDACIÓN ECO-RAEE'S, constituida para el establecimiento de un Sistema Colectivo de Responsabilidad del Productor, domiciliada en Valencia, Calle Pedro Aleixandre, 60 bajo, y provista de C.I.F. núm. G-97649016

#### CERTIFICA:

1. Que, en la fecha de emisión del presente Certificado, el productor LED'S GO PROJECT, S.L., con documento NIF: 865649667 y domicilio social en VALLBONA D'ANOIA (Barcelona), en POL. EL CAROL 13 CTRA. B-224 KM 2,2, está inscrita en el REI-RAEE con número de inscripción registral 4075.

2. Que las marcas comerciales declaradas al REI-RAEE por el mencionado productor son las siguientes:

- LED'S GO PROJECT

3. Que el citado productor declara poner los siguientes productos en el mercado:

- (3) Lámparas
  - Lámparas LED
    - LÁMPARAS LED
    - TUBOS LÁMPARAS LED
- (4) Grandes aparatos (con una dimensión exterior superior a 50 cm)
  - Sin subcategoría
    - LUMINARIAS LED INTEGRADA (Profesional)
    - LUMINARIAS LED NO INTEGRADA (Profesional)
    - RÓTULOS LUMINOSOS
- (5) Pequeños aparatos (sin ninguna dimensión exterior superior a 50 cm)
  - Sin subcategoría
    - LUMINARIAS LED INTEGRADA (Profesional)
    - LUMINARIAS LED NO INTEGRADA (Profesional)
    - RÓTULOS LUMINOSOS

4. a) Que el productor se encuentra adherido a Sistemas Colectivo de Responsabilidad Ampliada de Productor (SCRAP) para sus productos de las siguientes categorías:

- ECO-RAEE'S
  - (3) Lámparas
  - (4) Grandes aparatos (con una dimensión exterior superior a 50 cm)
  - (5) Pequeños aparatos (sin ninguna dimensión exterior superior a 50 cm)

4. b) Que el productor posee un Sistema Individual para sus productos de las siguientes categorías:

- No tiene categorías en sistema individual

y para que así conste, en Valencia, a 11 de mayo de 2018

fundación  
**eco**-raee's  
Calle Pedro Aleixandre, 60 Bajo · 46006 VALENCIA  
tel. 963 746 642 info@eco-raee.com



## Certificado

Norma de aplicación **ISO 9001:2015**

Nº registro certificado 0.04.13362

TÜV Rheinland Ibérica Inspection, Certification & Testing S.A. certifica:

**Titular del certificado:** LED'S GO PROJECT, S.L.  
Pol. El Carol, 13 Ctra B-224 Km 2,2  
08700 Vallbona d'Anoia  
España

Ámbito de aplicación: Gestión del diseño, gestión de la producción y comercialización de luminarias Led

Mediante auditoría realizada, según consta en el informe n° 0.04.13362 se verificó el cumplimiento de los requisitos recogidos en la norma ISO 9001:2015.

La fecha límite para la auditoría de seguimiento es 12-22 (mm - dd).

Validez: Este certificado es válido desde 2018-02-28 hasta 2021-02-27.  
Fecha de primera certificación 2018

2018-03-01 TÜV Rheinland Ibérica Inspection, Certification & Testing S.A.  
Garrucha, 10-12 – E-08820 El Prat de Llobregat

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## Certificado

Norma de aplicación **ISO 14001:2015**

Nº registro certificado 3.00.13179

TÜV Rheinland Ibérica Inspection, Certification & Testing S.A. certifica:

**Titular del certificado:** LED'S GO PROJECT, S.L.  
Pol. El Carol, 13 Ctra B-224 Km 2,2  
08700 Vallbona d'Anoia  
España

Ámbito de aplicación: Gestión del diseño, gestión de la producción y comercialización de luminarias Led

Mediante auditoría realizada, según consta en el informe n° 3.00.13179 se verificó el cumplimiento de los requisitos recogidos en la norma ISO 14001:2015.

La fecha límite para la auditoría de seguimiento es 01-04 (mm - dd).

Validez: Este certificado es válido desde 2018-02-26 hasta 2021-02-25.  
Fecha de primera certificación 2018

2018-02-28 TÜV Rheinland Ibérica Inspection, Certification & Testing S.A.  
Garrucha, 10-12 – E-08820 El Prat de Llobregat

**IAF** **ENAC** **TÜVRheinland®**  
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**NSF**  
The Public Health and Safety Organization

**LED'S GO PROJECT, S.L.**  
Polígon El Carol, 13  
Vallbona De Anoia  
Spain  
34 93 8047 8836

**Facility :** # 1 China

**Light Fixture for Splash and Non-food Zone**

**LED High Bay Light**  
CPN16100  
CPN16100/T  
CPN16120  
CPN16120/T  
CPN16150  
CPN16150/T  
CPN16200  
CPN16200/T

Number of matching Manufacturers is 1  
Number of matching Products is 8  
Processing time was 0 seconds

**NSF/ANSI 2**  
**Food Equipment**



**DL**

**DOWNLIGHT**

**/ DOWNLIGHT / DOWNLIGHT**



FIJI



CE





 El downlight serie FIJI de AOD a nacido para cubrir todas las necesidades de interior. Su cuerpo fabricado en aluminio y un diseño de disipación de calor único, hacen de este equipo la solución para interiores con más durabilidad.

El controlador, incluido, es compatible con la mayoría de reguladores del mercado. Gracias a ello, produce un encendido instantáneo, sin ruidos y es respetuoso con el medio ambiente.

Sus ópticas "Cameta" patentadas con diseño anti-deslumbrante, su alto CRI, su factor de alta potencia y la gran cantidad de accesorios disponibles para cualquier necesidad, hacen al producto perfecto para iluminar zonas como Hoteles, Restauración, Halls y zonas de paso.

 The AOD FIJI downlight series was developed to satisfy all indoor requirements. Its aluminum body and unique heat dissipation design, make this equipment the most durable solution for indoors.

The regulator, which is included, is compatible with most of those on the market. Thanks to this, it generates an instantaneous, noiseless start and it is respectful of the environment.

Its patented "Cameta" optics with anti-dazzling design, high CRI, high power factor and large number of accessories suitable for every requirement, make it the perfect product to illuminate areas such as hotels, restaurants, halls and passage ways.

 O downlight da série FIJI da AOD nasceu para cobrir todas as necessidades interiores. O seu corpo feito de alumínio e um design único de dissipação de calor tornam este equipamento a solução para interiores com maior durabilidade.

O controlador, incluído, é compatível com a maioria dos reguladores do mercado. Graças a isso, produz um arranque instantâneo, sem ruído e respeitador do meio ambiente.

As suas ópticas patenteadas "Cameta" com design antirreflexo, o seu alto CRI, o seu alto fator de potência e o grande número de acessórios disponíveis para qualquer necessidade tornam o produto perfeito para iluminar áreas como hotéis, restaurantes, salões e áreas de passagem.



IP  
20

IK  
04



85% RH

50ms  
0-100%

°C Tr  
-20°  
+40°

AC  
100V  
277V

Hz  
50/60



40.000h



SELV

24°

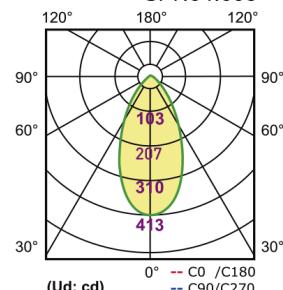
38°

60°



DRIVER  
INCORPORADO

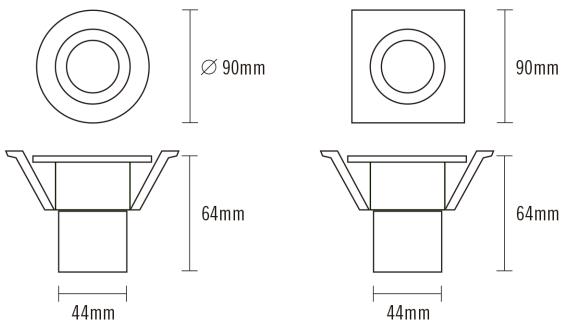
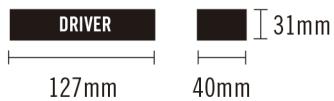
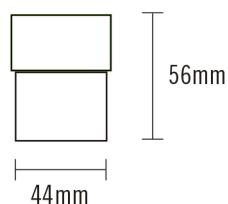
Polar intensity diagram  
-- SPT.04.008



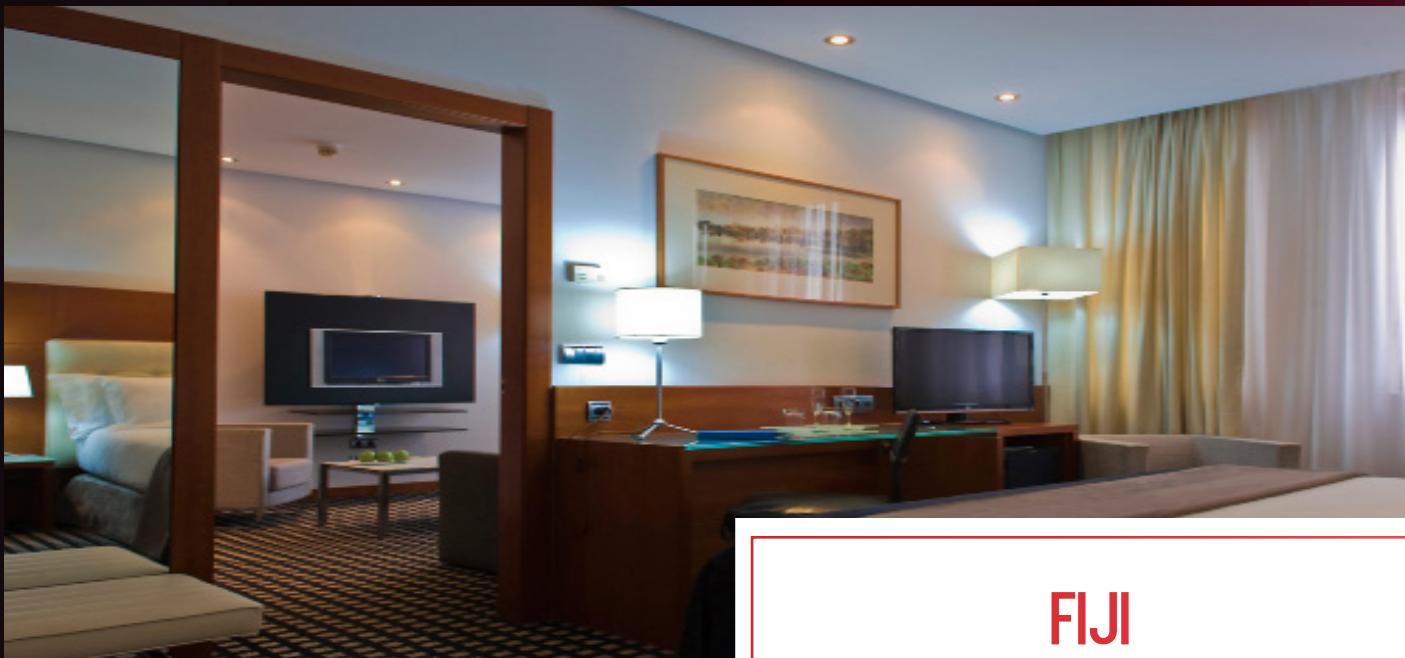
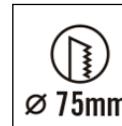
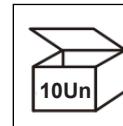
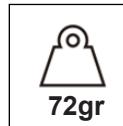


# FIJI 8W

ID. SPT.04.008



ID	EAN-13	W	CCT	lm	Ba°
SPT.04.008.01	8436549156113	8W	3000K	625	24°
SPT.04.008.02	8436549156120	8W	4000K	650	24°
SPT.04.008.03	8436549156137	8W	5000K	690	24°
SPT.04.008.04	8436549156144	8W	3000K	625	38°
SPT.04.008.05	8436549156151	8W	4000K	650	38°
SPT.04.008.06	8436549156168	8W	5000K	690	38°
SPT.04.008.07	8436549156175	8W	3000K	625	60°
SPT.04.008.08	8436549156182	8W	4000K	650	60°
SPT.04.008.09	8436549156199	8W	5000K	690	60°
SPT.04.008.10	8436549150012	8W	2700K	600	24°
SPT.04.008.11	8436549150029	8W	2700K	600	38°
SPT.04.008.12	8436549150036	8W	2700K	600	60°



FIJI

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS





### ARO FIJI ORIENTABLE CIRCULAR ADJUSTABLE ROUND FIJI RING

ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.07	8436549150210	ARO FIJI ORIENTABLE CIRCULAR PLATA / ADJUSTABLE ROUND FIJI RING SILVER
DLT.AC.ARO.08	8436549150371	ARO FIJI ORIENTABLE CIRCULAR BLANCO / ADJUSTABLE ROUND FIJI RING WHITE

### ARO FIJI ORIENTABLE CUADRADO ADJUSTABLE SQUARE FIJI RING



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.09	8436549150388	ARO FIJI ORIENTABLE CUADRADO PLATA / ADJUSTABLE SQUARE FIJI RING SILVER
DLT.AC.ARO.10	8436549150395	ARO FIJI ORIENTABLE CUADRADO BLANCO / ADJUSTABLE SQUARE FIJI RING WHITE



### ARO FIJI IP65 CIRCULAR ROUND FIJI IP65 RING

ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.12	8436549150432	ARO FIJI IP65 CIRCULAR PLATA / ROUND FIJI IP65 RING SILVER
DLT.AC.ARO.13	8436549150548	ARO FIJI IP65 CIRCULAR BLANCO / ROUND FIJI IP65 RING WHITE

### ARO FIJI IP65 CUADRADO SQUARE FIJI IP65 RING



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.14	8436549150555	ARO FIJI IP65 CUADRADO PLATA / SQUARE FIJI IP65 RING SILVER
DLT.AC.ARO.15	8436549150562	ARO FIJI IP65 CUADRADO BLANCO / SQUARE FIJI IP65 RING WHITE



### ÓPTICAS OPTICS

ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.OPT.24	8436549150067	OPTICA 24° FIJI 8W / 24° 8W FIJI OPTICS
DLT.AC.OPT.38	8436549150197	OPTICA 38° FIJI 8W / 38° 8W FIJI OPTICS
DLT.AC.OPT.60	8436549150203	OPTICA 60° FIJI 8W / 60° 8W FIJI OPTICS



**BASE ARO FIJI**  
FIJI BASE RING



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.FJ.00	8436549150579	BASE ARO FIJI / FIJI BASE RING



**PINHOLE FIJI**  
FIJI PINHOLE



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.FJ.01	8436549150586	PINHOLE FIJI / FIJI PINHOLE



**OPEN REFLECTOR FIJI**  
FIJI OPEN REFLECTOR



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.FJ.02	8436549150593	OPEN REFLECTOR FIJI / FIJI OPEN REFLECTOR



**SLOT APERTURE FIJI**  
FIJI SLOT APERTURE



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.FJ.03	8436549150609	SLOT APERTURE FIJI / FIJI SLOT APERTURE



**WALL-WASH FIJI**  
FIJI WALL-WASH



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.FJ.04	8436549150616	WALL-WASH FIJI / FIJI WALL-WASH

MAUI



CE





El downlight de la serie MAUI, existe para ofrecer una solución a su familia con un índice de deslumbramiento unificado inferior a 19 (UGR). Además de las muchas otras características que ofrece.

Al igual que la serie FIJI el modelo MAUI incorpora la óptica “Cameta”, patentada con un diseño anti-deslumbrante y su CRI superior a otros equipos.

Sin duda un elemento fundamental para la firma AOD, con la que ofrecemos uniformidad y ahorro energético en zonas como, oficinas, centros educativos, hospitales, etc.

The MAUI series downlight provides a solution for your family with a unified glare index of less than 19 (UGR) in addition to the many other features it offers.

Like the FIJI series, the MAUI model includes “Cameta” optics and patented anti-glare design and a high colour rendering index, superior to other equipment.

It is, without doubt, a key element for AOD, which allows us to offer uniformity and energy saving in areas such as offices, educational centres and hospitals.

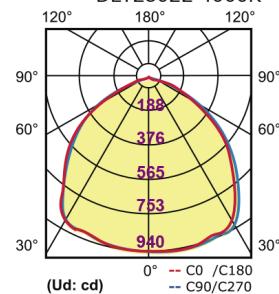
O downlight da série MAUI existe para oferecer uma solução para a sua família com um índice de brilho unificado inferior a 19 (UGR). Além das muitas outras características que oferece.

Tal como a série FIJI, o modelo MAUI incorpora a ótica “Cameta”, patenteada com um design antirreflexo e alto índice de reprodução cromática, superior a outros equipamentos.

Sem dúvida, um elemento fundamental para a empresa AOD, com o qual oferecemos uniformidade e economia de energia em áreas como escritórios, centros educativos, hospitais, etc.

	<b>IP 20</b>		<b>IK 04</b>		<b>CO<sub>2</sub></b>		<b>85% RH</b>		<b>50ms 0-100%</b>		<b>°C Tr -20° +40°</b>		<b>AC 100V 277V</b>
	<b>Hz 50/60</b>		<b>50.000h</b>		<b>0,3m</b>		<b>2 years</b>		<b>House</b>		<b>UGR&lt;19</b>		<b>AL</b>
	<b>PC</b>		<b>3000K *</b>		<b>4000K *</b>		<b>5000K</b>		<b>95°</b>		<b>DRIVER INCORPORADO</b>		

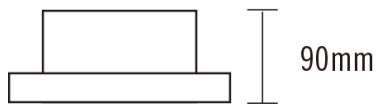
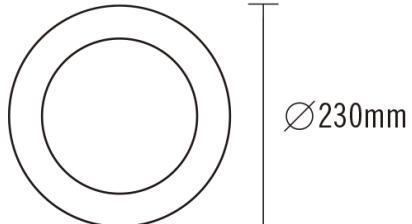
Polar intensity diagram  
-- DLT28022 4000K



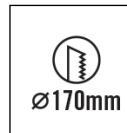
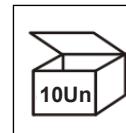


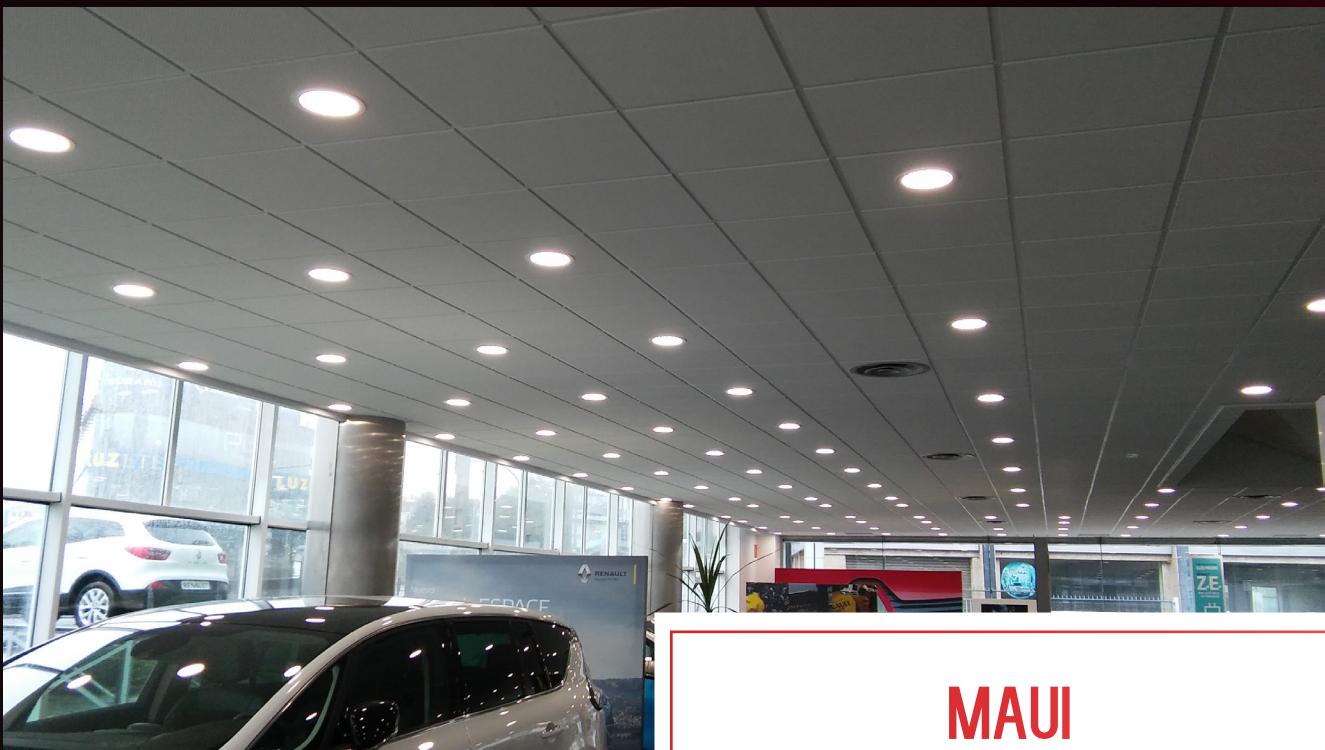
# MAUI 22W

ID. DLT28022



ID	EAN-13	W	CCT	lm	Ba°
DLT28022/830ND	8436549158766	22W	3000K	2200	95°
DLT28022/840ND	8436549158773	22W	4000K	2400	95°
DLT28022/850ND	8436549158780	22W	5000K	2600	95°





CRETE



CE





 La forma rectangular de la isla griega le da el nombre a la serie CRETE de la familia downlight. Fabricado en aleación de magnesio y policarbonato le proporciona un fino satinado en la cubierta y un agarre fuerte, seguro y resistente.

Gracias al nuevo chip SMD5630 de segunda generación y a las características de su fuente de alimentación incorporada el modelo CRETE amplía su garantía a 5 años.

Su gran apertura de campo y su diseño exterior, sugieren, la aplicación de este equipo en zonas comerciales, como tiendas, para destacar la forma de los objetos, farmacias o escaparates.

 The Greek island's rectangular shape inspired the name of the CRETE series of the downlight family. It is made of magnesium alloy and polycarbonate and provides a fine satin finish on the cover and a strong, secure and resistant grip.

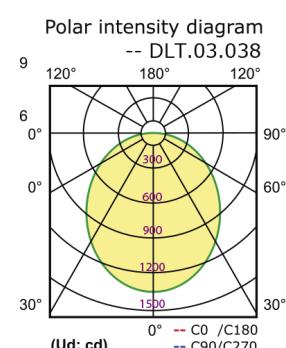
Due to its new second generation SMD5630 chip and the characteristics of its built-in power supply, the CRETE model's warranty lasts for 5 years. Its great opening field and its exterior design mean that this equipment is particularly suited to retail areas such as stores as it can be used to highlight objects, pharmacies or shop windows.

 A forma retangular da ilha grega dá o nome à série CRETE da família donwlight. Fabricada em liga de magnésio e policarbonato, proporciona um fino acabamento acetinado fino na cobertura e uma aderência forte, segura e resistente.

Gracias ao novo chip SMD5630 de segunda geração e às características da sua fonte de alimentação integrada, o modelo CRETE amplia a sua garantia para 5 anos.

A sua grande abertura de campo e o seu design exterior sugerem a aplicação deste equipamento em áreas comerciais, como lojas, para destacar a forma de objetos, ou farmácias e vitrinas.

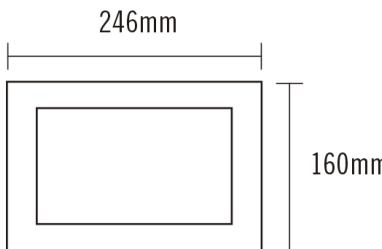
	<b>IP 20</b>	<b>IK 04</b>					<b>AC</b>
				85%RH	50ms 0-100%	°C Tr -20° +40°	220V 240V
<b>Hz</b> <b>50/60</b>	40.000h						<b>AL</b>
<b>GLASS</b>					<b>DRIVER INCORPORADO</b>		



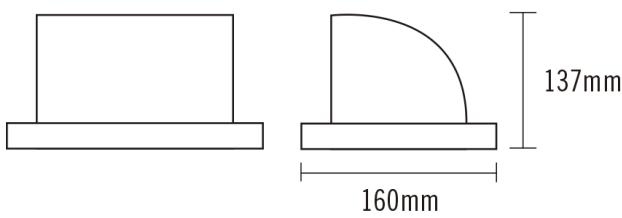


# CRETE 38W

ID. DLT.03.038



ID	EAN-13	W	CCT	lm	Ba°
DLT.03.038.01	8436549151101	38W	3000K	3900	120°
DLT.03.038.02	8436549151118	38W	4000K	4000	120°
DLT.03.038.03	8436549152559	38W	5000K	4100	120°





**CRETE**

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS

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**ARO SUPLEMENTARIO RECTANGULAR BLANCO CRETE  
ADDITIONAL SQUARE RING CRETE WHITE**

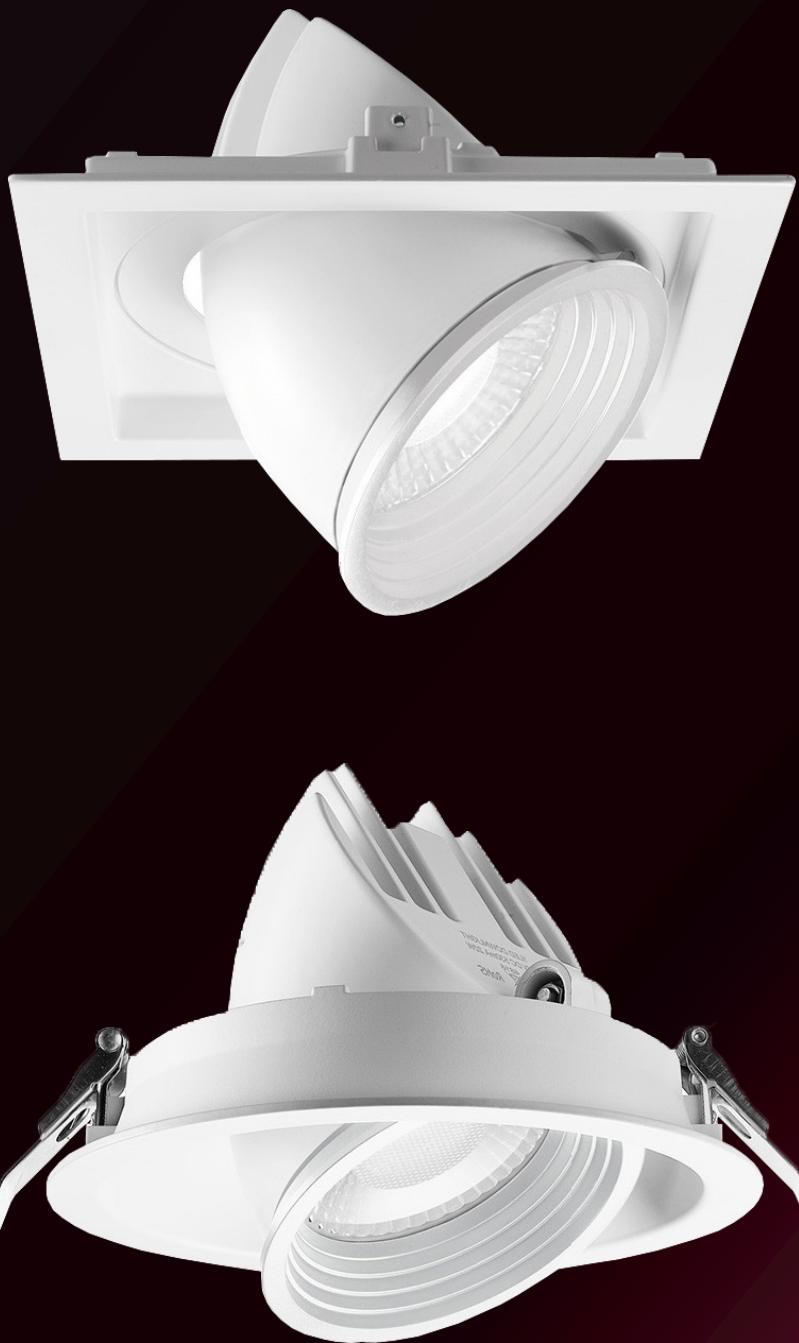
ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.250	8436549150647	ARO SUPLEMENTARIO RECTANGULAR BLANCO CRETE / ADDITIONAL SQUARE RING CRETE WHITE



**ARO SUPLEMENTARIO RECTANGULAR PLATA CRETE  
ADDITIONAL SQUARE RING CRETE SILVER**

ID	EAN	DESCRIPCIÓN
DLT.AC.ARO.251	8436549150654	ARO SUPLEMENTARIO RECTANGULAR PLATA CRETE / ADDITIONAL SQUARE RING CRETE SILVER

MARK



CE





 La serie MARK de downlight o MK es un producto innovador para el mercado de la iluminación LED. Dispone de 16 tipos de componentes diferentes intercambiables, gracias a ello, puede configurarse hasta en 228 formas de montaje empotrado.

Siendo un equipo modular, el MK puede acoplarse entre sí para cubrir las necesidades de cada instalación, es ofrecido en 2000 y 4100lm además de operar en diferentes ángulos de apertura incluyendo 24°, 38°, 60° y 80°x45°.

Cuadrado o redondo es el producto preferido para ofrecer una iluminación precisa y multidireccional de manera flexible con una rotación de 350 grados y una inclinación de 50, satisface necesidades específicas en aplicaciones como tiendas, museos, galerías de arte, hoteles etc.

 The MARK or MK downlight series is an innovative product for the LED lighting market. Its 16 types of different interchangeable components allow up to 228 installation mounting configurations.

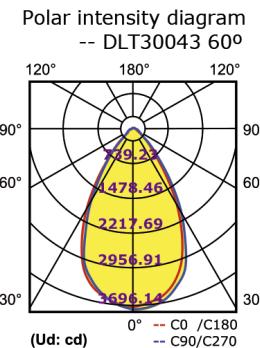
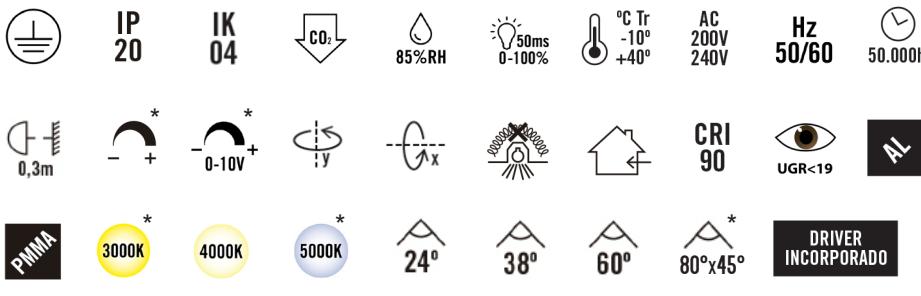
As the equipment is modular , the MK can be coupled together to meet the needs of each installation. It is offered in 2000lm and 4100lm in addition to operating at different opening angles including 24°, 38°, 60° and 80°x45°.

Whether square or round, it is the ideal product to provide precise, multi-directional lighting in a flexible way with a rotation of 350 degrees and an inclination of 50 degrees. It is suitable for the particular demands of shops, museums, art galleries and hotels.

 A série MARK de downlight ou MK é um produto inovador para o mercado de iluminação LED. Dispõe de 16 tipos de componentes intercambiáveis diferentes, graças aos quais pode ser configurado em até 228 formas de montagem encastrada.

Sendo um equipamento modular, o MK pode ser acoplado em conjunto para cobrir as necessidades de cada instalação, é oferecido em 2000 lm e 4100 lm, além de operar em diferentes ângulos de abertura, incluindo 24°, 38°, 60° e 80°x45°.

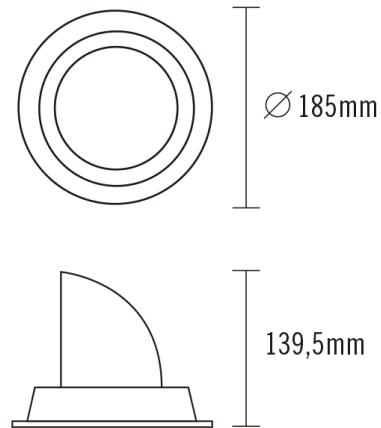
Quadrado ou redondo, é o produto preferido para oferecer uma iluminação precisa e multidirecional de forma flexível com uma rotação de 350 graus e uma inclinação de 50, que satisfaz as necessidades específicas em aplicações como lojas, museus, galerias de arte, hotéis, etc.



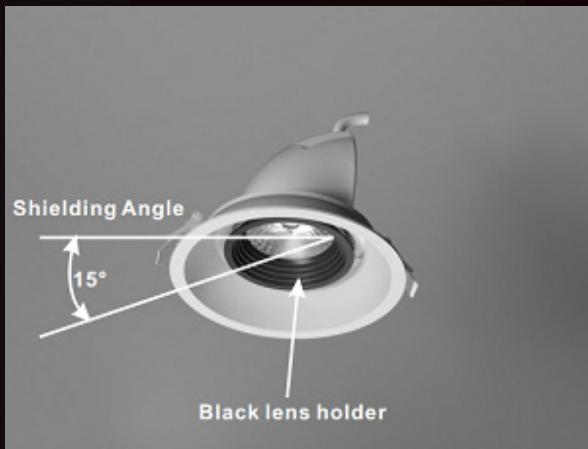
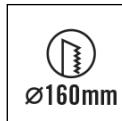
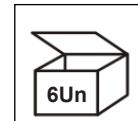
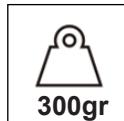


# MARK 43W

ID. DLT30043



ID	EAN-13	W	CCT	lm	Ba°
DLT30043-WTCC83024	8436549150401	43W	3000K	4100	24°
DLT30043-WTCC84024	8436549150852	43W	4000K	4150	24°
DLT30043-WTCC85024	8436549150869	43W	5000K	4350	24°
DLT30043-WTCC83038	8436549150227	43W	3000K	4100	38°
DLT30043-WTCC84038	8436549150234	43W	4000K	4150	38°
DLT30043-WTCC85038	8436549150241	43W	5000K	4350	38°
DLT30043-WTCC83060	8436549150258	43W	3000K	4100	60°
DLT30043-WTCC84060	8436549150265	43W	4000K	4150	60°
DLT30043-WTCC85060	8436549150272	43W	5000K	4350	60°

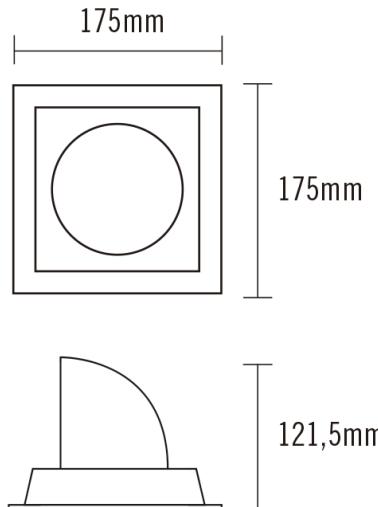


MARK

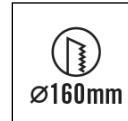
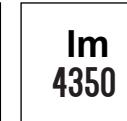
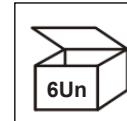


# MARK 43W

ID. DLT30043

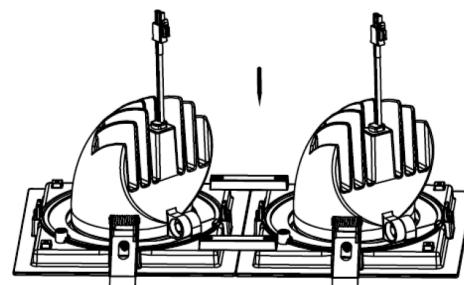
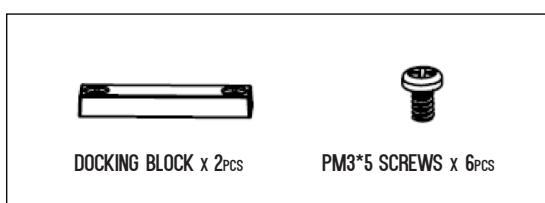


ID	EAN-13	W	CCT	Im	Ba°
DLT30043-WTSQ83024	8436549150289	43W	3000K	4100	24°
DLT30043-WTSQ84024	8436549150296	43W	4000K	4150	24°
DLT30043-WTSQ85024	8436549150302	43W	5000K	4350	24°
DLT30043-WTSQ83038	8436549150319	43W	3000K	4100	38°
DLT30043-WTSQ84038	8436549150326	43W	4000K	4150	38°
DLT30043-WTSQ85038	8436549150333	43W	5000K	4350	38°
DLT30043-WTSQ83060	8436549150340	43W	3000K	4100	60°
DLT30043-WTSQ84060	8436549150357	43W	4000K	4150	60°
DLT30043-WTSQ85060	8436549150364	43W	5000K	4350	60°



## NO INCLUIDO / NOT INCLUDED

ACCESORIOS 1 PACK (ORDENAR INDIVIDUALMENTE)  
ACCESSORIES 1 PACK (ORDER SEPARATELY)



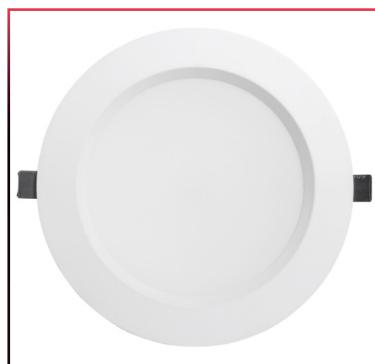
ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT30043-DOCKING	8436549156953	DOCKING BLOCK PARA LA UNION EN CARDAN MARK (2UNIDADES) / DOCKING BLOCK CARDAN UNION FOR MARK (2 UNITS)

# COOCK



CE





 El downlight de la serie COOCK es ya un conocido de la marca AOD, funcionando en el mercado desde 2014 se convierte en uno de los productos más longevos y duraderos de la firma.

Sus diversas mejoras en el chip SMD que incorpora y su cuerpo de aluminio de fundición inyectado a alta presión lo convierten en un producto con una gran disipación de calor y una salida de hasta 120 lm/W, garantizando así su funcionamiento a pleno rendimiento durante toda su vida útil. Gracias a su gama de accesorios, fuentes de alimentación regulables, diversidad de colores del acabado y sus tres medidas de corte, disponemos de un equipo con aplicación en prácticamente todos los mercados, como concesionarios, restauración, escuelas, oficinas y muchos más.

 The COOCK series downlight is an established AOD brand and has been on the market since 2014. It has become one of the longest lasting and most durable of the company's products.

The various improvements to the incorporated SMD chip and high-pressure die-cast aluminum body make it a product with a high heat dissipation and an output of up to 120 lm / W, thus guaranteeing its full-performance operation throughout its useful life

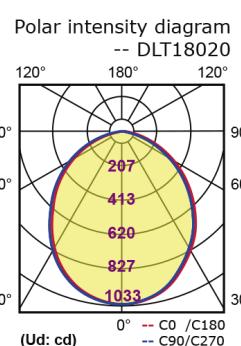
Its range of accessories, adjustable power supplies, variety of finish colours and three cutting measures make this equipment suitable for use in virtually all markets, such as dealers, restaurants, schools, offices and many more.

 O downlight da série COOCK já é bem conhecido da marca AOD, atuando no mercado desde 2014, tendo-se tornado um dos produtos mais duradouros e longevos da empresa.

As suas várias melhorias no chip SMD que incorpora e o seu corpo de alumínio fundido injetado a alta pressão fazem dele um produto com alta dissipação de calor e uma saída de até 120 lm/W, garantindo assim operação em pleno rendimento ao longo de toda a sua vida útil.

Graças à sua gama de acessórios, fontes de alimentação ajustáveis, diversidade de cores do acabamento e as suas três medidas de corte, disponemos de um equipamento com aplicação em praticamente todos os mercados, como concessionários, restaurantes, escolas, escritórios e muito mais.

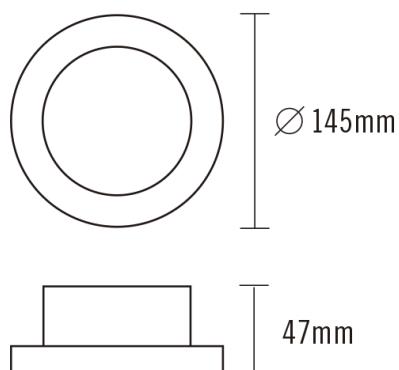
	IP 54	IK 04				AC 200V 240V
	50/60			60.000h		0,3m
				-		0-10V +
	3000K	4000K		5000K		100°



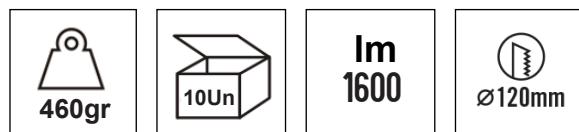
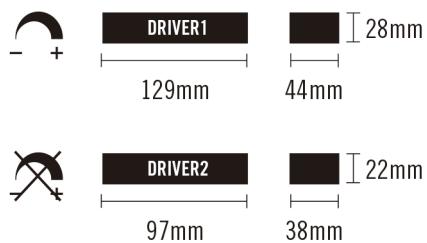


# COOCK 12W

ID. DLT14012



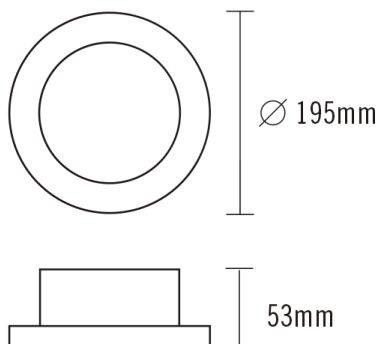
ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT14012/SVCC830	8436549154638	12W	3000K	1300	100°	●
DLT14012/SVCC840	8436549154645	12W	4000K	1450	100°	●
DLT14012/SVCC850	8436549154652	12W	5000K	1600	100°	●
DLT14012/WTCC830	8436549154669	12W	3000K	1300	100°	○
DLT14012/WTCC840	8436549154676	12W	4000K	1450	100°	○
DLT14012/WTCC850	8436549154683	12W	5000K	1600	100°	○



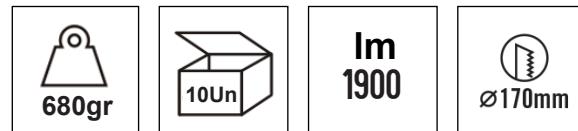
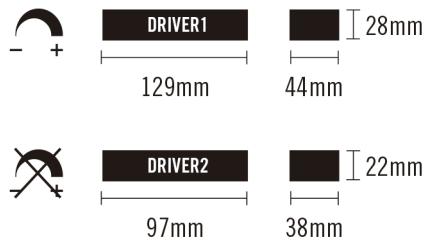


## COOCK 15W

ID. DLT16015

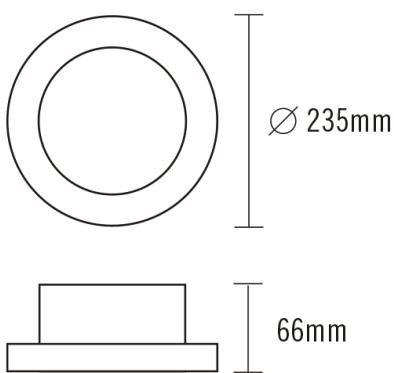


ID	EAN-13	W	CCT	Im	Ba°	COLOR/COLOUR
DLT16015/SVCC830	8436549154690	15W	3000K	1700	100°	●
DLT16015/SVCC840	8436549154706	15W	4000K	1800	100°	●
DLT16015/SVCC850	8436549154713	15W	5000K	1900	100°	●
DLT16015/WTCC830	8436549154720	15W	3000K	1700	100°	○
DLT16015/WTCC840	8436549154737	15W	4000K	1800	100°	○
DLT16015/WTCC850	8436549154744	15W	5000K	1900	100°	○

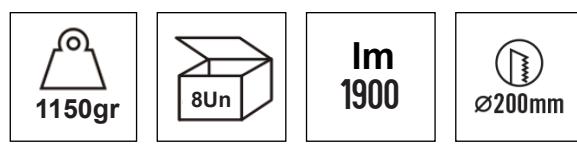
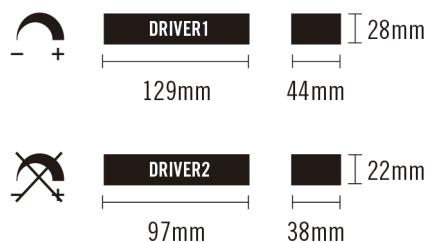


## COOCK 15W

ID. DLT18015



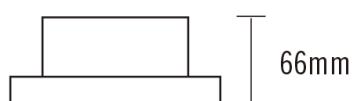
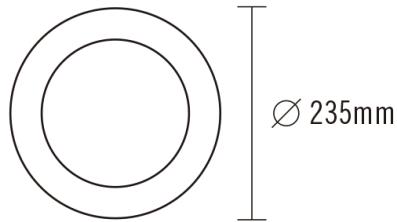
ID	EAN-13	W	CCT	Im	Ba°	COLOR/COLOUR
DLT18015/SVCC830	8436549155758	15W	3000K	1700	100°	●
DLT18015/SVCC840	8436549155765	15W	4000K	1800	100°	●
DLT18015/SVCC850	8436549155772	15W	5000K	1900	100°	●
DLT18015/WTCC830	8436549155819	15W	3000K	1700	100°	○
DLT18015/WTCC840	8436549155826	15W	4000K	1800	100°	○
DLT18015/WTCC850	8436549155833	15W	5000K	1900	100°	○



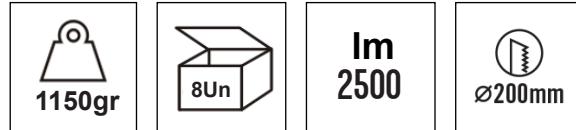


## COOCK 20W

ID. DLT18020

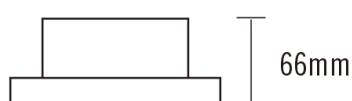
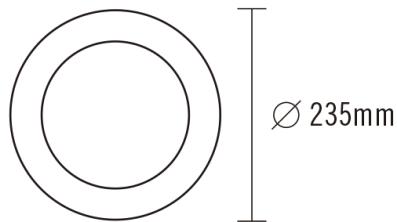


ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT18020/SVCC830	8436549154751	20W	3000K	2300	100°	●
DLT18020/SVCC840	8436549154768	20W	4000K	2400	100°	●
DLT18020/SVCC850	8436549154775	20W	5000K	2500	100°	●
DLT18020/WTCC830	8436549154812	20W	3000K	2300	100°	○
DLT18020/WTCC840	8436549154829	20W	4000K	2400	100°	○
DLT18020/WTCC850	8436549154836	20W	5000K	2500	100°	○

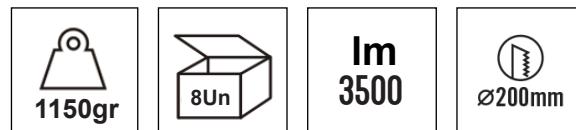


## COOCK 28W

ID. DLT18028



ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT18028/SVCC830	8436549154874	28W	3000K	3300	100°	●
DLT18028/SVCC840	8436549154881	28W	4000K	3400	100°	●
DLT18028/SVCC850	8436549154898	28W	5000K	3500	100°	●
DLT18028/WTCC830	8436549154935	28W	3000K	3300	100°	○
DLT18028/WTCC840	8436549154942	28W	4000K	3400	100°	○
DLT18028/WTCC850	8436549154959	28W	5000K	3500	100°	○



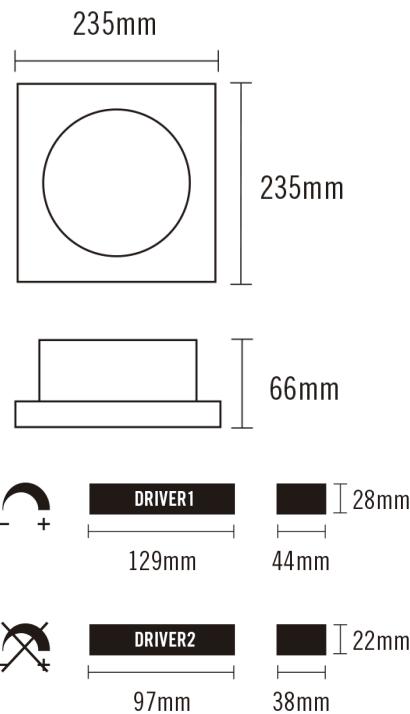


COOCK

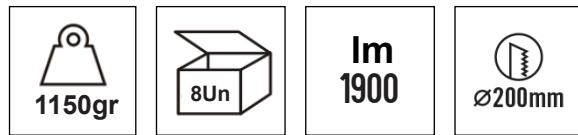


## COOCK 15W

ID. DLT18015

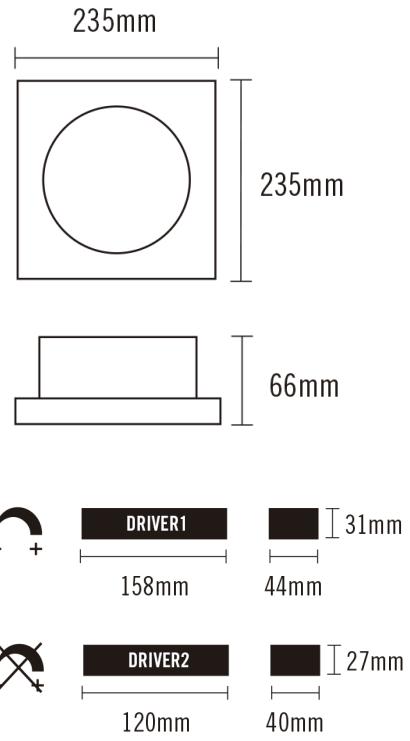


ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT18015/SVSQ830	8436549155789	15W	3000K	1700	100°	●
DLT18015/SVSQ840	8436549155796	15W	4000K	1800	100°	●
DLT18015/SVSQ850	8436549155802	15W	5000K	1900	100°	●
DLT18015/WTSQ830	8436549155840	15W	3000K	1700	100°	○
DLT18015/WTSQ840	8436549155857	15W	4000K	1800	100°	○
DLT18015/WTSQ850	8436549155864	15W	5000K	1900	100°	○

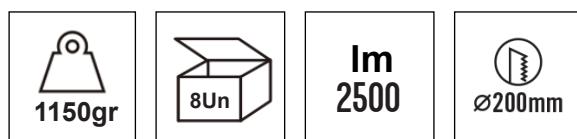


## COOCK 20W

ID. DLT18020



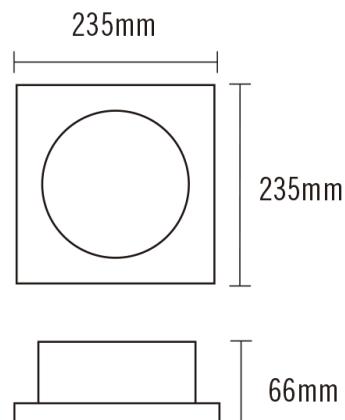
ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT18020/SVSQ830	8436549154782	20W	3000K	2300	100°	●
DLT18020/SVSQ840	8436549154799	20W	4000K	2400	100°	●
DLT18020/SVSQ850	8436549154805	20W	5000K	2500	100°	●
DLT18020/WTSQ830	8436549154843	20W	3000K	2300	100°	○
DLT18020/WTSQ840	8436549154850	20W	4000K	2400	100°	○
DLT18020/WTSQ850	8436549154867	20W	5000K	2500	100°	○



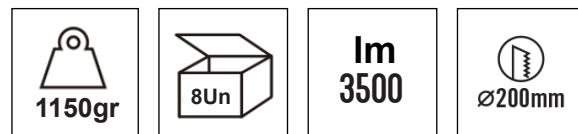
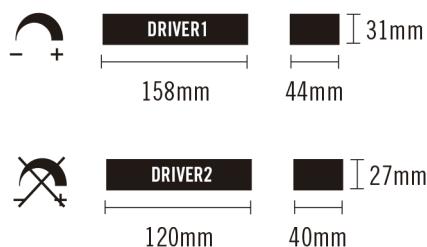


# COOCK 28W

ID. DLT18028



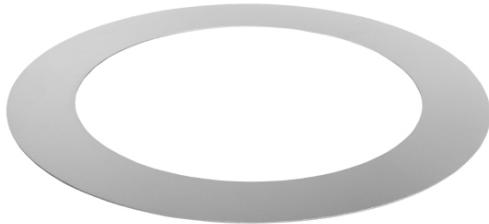
ID	EAN-13	W	CCT	lm	Ba°	COLOR/COLOUR
DLT18028/SVSQ830	8436549155420	28W	3000K	3300	100°	●
DLT18028/SVSQ840	8436549154911	28W	4000K	3400	100°	●
DLT18028/SVSQ850	8436549154928	28W	5000K	3500	100°	●
DLT18028/WTSQ830	8436549154966	28W	3000K	3300	100°	○
DLT18028/WTSQ840	8436549154973	28W	4000K	3400	100°	○
DLT18028/WTSQ850	8436549154980	28W	5000K	3500	100°	○



## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS

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**ARO SUPLEMENTARIO CIRCULAR 275MM  
ADDITIONAL ROUND RING 275MM**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.03	8436549150623	ARO SUPLEMENTARIO CIRCULAR 275MM PLATA INT 205MM / ADDITIONAL ROUND RING 275MM SILVER INT 205MM
DLT.AC.ARO.04	8436549150630	ARO SUPLEMENTARIO CIRCULAR 275MM BLANCO INT 205MM / ADDITIONAL ROUND RING 275MM WHITE INT 205MM

**ARO SUPLEMENTARIO CUADRADO 275X275MM  
ADDITIONAL SQUARE RING 275X275MM**



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.18	8436549150661	ARO SUPLEMENTARIO CUADRADO 275X275MM PLATA INT 205MM / ADDITIONAL SQUARE RING 275X275MM SILVER INT 205MM
DLT.AC.ARO.19	8436549150678	ARO SUPLEMENTARIO CUADRADO 275X275MM BLANCO INT 205MM / ADDITIONAL SQUARE RING 275X275MM WHITE INT 205MM

\* SERVICIO DE PINTURA  
\* PAINTING SERVICE



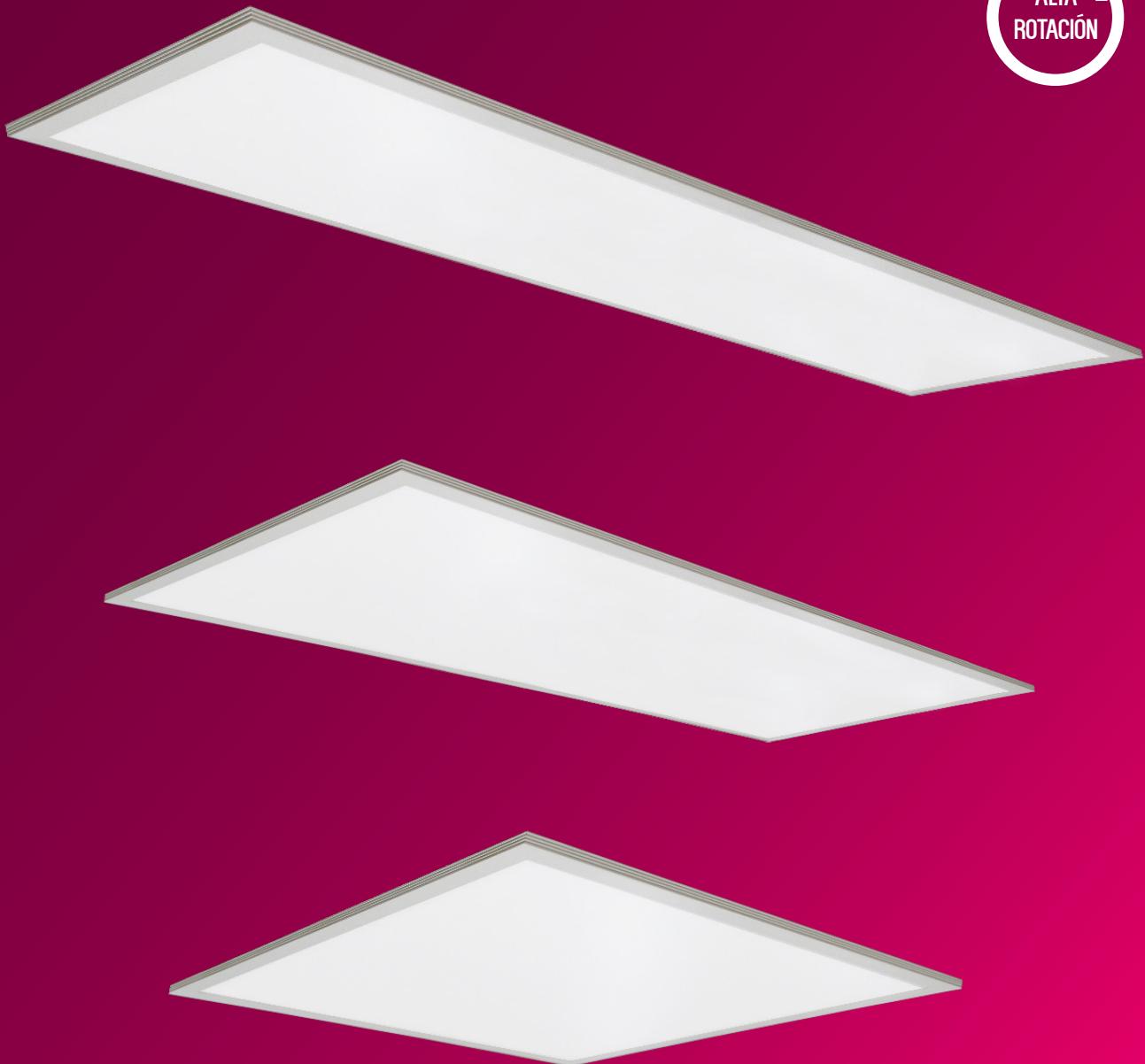
ID	EAN	DESCRIPCIÓN / DESCRIPTION
DLT.AC.ARO.RAL	*****	SERVICIO DE PINTURA SEGÚN RAL APORTADO / PAINTING SERVICE ACORDING TO RAL CONTRIBUTED



PANEL  
/ PANEL / PANEL



# MARION





La serie III del panel LED de AOD, es un producto ideal para la iluminación general de interior.

La nueva serie mejora su plancha trasera con los bordes doblados hacia adentro con lo que previene las fugas de luz y la entrada de insectos.

El marco está diseñado en una sola pieza, consiguiendo una estructura más fuerte.

Diseñado en 3 segmentos mejorando así la resistencia e impidiendo su deformación con el tiempo.

Recomendamos la serie III del panel MARION por sus características técnicas y mecánicas, estando dirigido a diferentes sectores de actividad como: oficinas, escuelas, residencias de estudiantes, hospitales, restauración, etc.

The series III of the AOD LED panel, is an ideal product for general interior lighting.

The new series improves its back plate with the edges bent inwards, which prevents light leaks and the entrance of insects.

The frame is designed in one piece, getting a stronger structure.

Designed in 3 segments improving resistance and preventing its deformation over time.

We recommend the MARION panel III series for its technical and mechanical characteristics, being directed to different sectors of activity such as: offices, schools, student residences, hospitals, restaurants, etc.

A série III do painel LED da AOD é um produto ideal para iluminação interior geral.

A nova série melhora sua placa traseira com as bordas dobradas para dentro, o que evita vazamentos de luz e a entrada de insetos.

O quadro é projetado em uma peça, obtendo uma estrutura mais forte.

Projetado em 3 segmentos, melhorando a resistência e evitando sua deformação ao longo do tempo.

Recomendamos a série MARION painel III pelas suas características técnicas e mecânicas, sendo direcionada a diferentes setores de atividade, tais como: oficinas, escolas, residências estudantis, hospitais, restaurantes, etc.



IP  
42



IK  
04



85% RH



50ms  
0-100%



-20°  
+40°



AC  
200V  
240V



Hz  
50/60



50.000h



0,3m



1000h



UGR<19



90°



0-10V



NO  
FLICKING



AI



PMMA



3000K



4000K



5000K



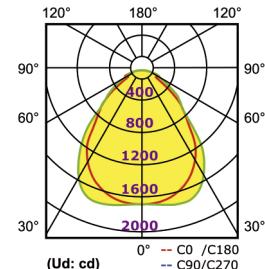
\*



\*

DRIVER  
INCORPORADO

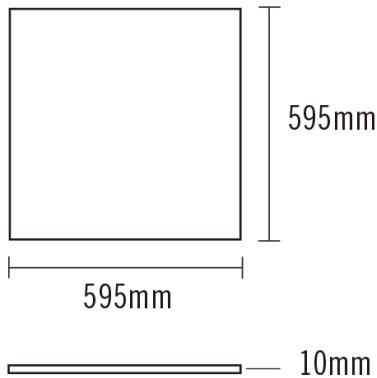
Polar intensity diagram  
-- PNL 30040/123



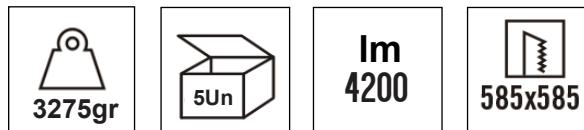


## MARION 60X60 40W

ID. PNL30040/606

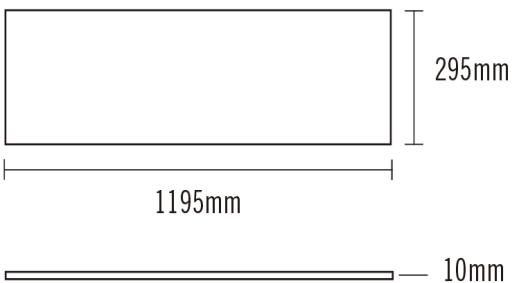


ID	EAN-13	W	CCT	Im	Ba°
PNL30040/606830WT	8436549151514	40W	3000K	3800	90°
PNL30040/606840WT	8436549151552	40W	4000K	4000	90°
PNL30040/606850WT	8436549151569	40W	5000K	4200	90°

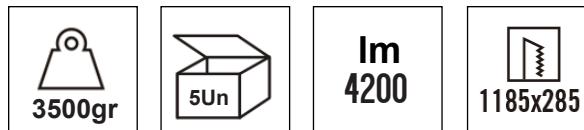


## MARION 120X30 40W

ID. PNL30040/123



ID	EAN-13	W	CCT	Im	Ba°
PNL30040/123830WT	8436549151699	40W	3000K	3800	90°
PNL30040/123840WT	8436549151705	40W	4000K	4000	90°
PNL30040/123850WT	8436549151712	40W	5000K	4200	90°



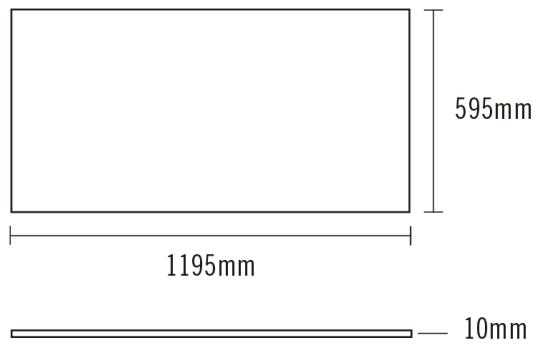


MARION

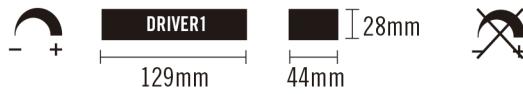
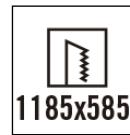
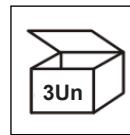


# MARION 120X60 72W

ID. PNL30072/126



ID	EAN-13	W	CCT	lm	Ba°
PNL30072/126830WT	8436549151729	72W	3000K	7000	90°
PNL30072/126840WT	8436549151736	72W	4000K	7200	90°
PNL30072/126850WT	8436549151743	72W	5000K	7400	90°



## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS





## KIT SUSPENSION PANEL MARION SUSPENSION KIT MARION PANEL

ID	EAN	DESCRIPCIÓN / DESCRIPTION
PNL.AC.01.SUS	8436549151057	KIT SUSPENSION CABLE MARION 60X60 / SUSPENSION KIT MARION PANEL 60X60
PNL.AC.02.SUS	8436549151064	KIT SUSPENSION CABLE MARION 120X30, 120X60 / SUSPENSION KIT MARION PANEL 120X30, 120X60

## MARCO PANEL MARION FRAME MARION PANEL

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AFX.01/6060-SLV	8436549153556	MARCO MARION 60X60 PLATA / FRAME MARION PANEL 60X60 SILVER
AFX.01/6060-WHT	8436549153563	MARCO MARION 60X60 BLANCO / FRAME MARION PANEL 60X60 WHITE
AFX.01/12030-SLV	8436549153570	MARCO MARION 120X30 PLATA / FRAME MARION PANEL 120X30 SILVER
AFX.01/12030-WHT	8436549153587	MARCO MARION 120X30 BLANCO / FRAME MARION PANEL 120X30 WHITE
AFX.01/12060-SLV	8436549153594	MARCO MARION 120X60 PLATA / FRAME MARION PANEL 120X60 SILVER
AFX.01/12060-WHT	8436549153600	MARCO MARION 120X60 BLANCO / FRAME MARION PANEL 120X60 WHITE



## MARCO EMPOTRABLE PANEL MARION RECESSED FRAME MARION PANEL

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AFX.02/6060-WHT	8436549151835	MARCO EMPOTRABLE MARION 60X60 BLANCO / RECESSED FRAME MARION PANEL 60X60 WHITE
AFX.02/6060-SLV	8436549151842	MARCO EMPOTRABLE MARION 60X60 PLATA / RECESSED FRAME MARION PANEL 60X60 SILVER
AFX.02/12030-WHT	8436549151859	MARCO EMPOTRABLE MARION 120X30 BLANCO / RECESSED FRAME MARION PANEL 120X30 WHITE
AFX.02/12030-SLV	8436549151866	MARCO EMPOTRABLE MARION 120X30 PLATA / RECESSED FRAME MARION PANEL 120X30 SILVER
AFX.02/12060-WHT	8436549151873	MARCO EMPOTRABLE MARION 120X60 BLANCO / RECESSED FRAME MARION PANEL 120X60 WHITE
AFX.02/12060-SLV	8436549151880	MARCO EMPOTRABLE MARION 120X60 PLATA / RECESSED FRAME MARION PANEL 120X60 SILVER



## DRIVER NO REGULABLE NON DIMMING DRIVER



ID	EAN	DESCRIPCIÓN / DESCRIPTION
DRV11083036	8436549151750	DRIVER NO REGULABLE MARION 36W 850MA / NON DIMMING DRIVER MARION 36W 850MA
DRV11092040	8436549151767	DRIVER NO REGULABLE MARION 40W 980MA / NON DIMMING DRIVER MARION 40W 980MA

## 0/1-10V DRIVER REGULABLE

### 0/1-10V DIMMING DRIVER

ID	EAN	DESCRIPCIÓN / DESCRIPTION
DRV21083036	8436549151811	DRIVER REGULABLE 0/1-10V MARION 36W 830MA / DIMMING DRIVER 0/1-10V MARION 36W 830MA
DRV21092040	8436549151828	DRIVER REGULABLE 0/1-10V MARION 40W 920MA / DIMMING DRIVER 0/1-10V MARION 40W 920MA



\* SERVICIO DE PINTURA  
\* PAINTING SERVICE



ID	EAN	DESCRIPCIÓN / DESCRIPTION
PNL.AC.AFX.RAL	*****	SERVICIO DE PINTURA SEGÚN RAL APORTADO / PAINTING SERVICE ACORDING TO RAL CONTRIBUTED

SYLT



CE





 Led's Go Project unifica la familia panel, introduciendo la serie SYLT, para ofrecer la solución en superficie definitiva, con una potencia de 18W, los modelos con sensor de presencia y emergencia.

Su chip SMD emite un alto brillo e uniformidad gracias a su difusor de policarbonato, además del controlador incorporado de alta potencia y un amplio ángulo de apertura de 120°, además de un diseño estructural que cumple las condiciones para instalarlo en zonas con humedad (IP54). Todas las características técnicas de este producto, lo convierten en un equipo ideal para zonas comerciales y residenciales, oficinas, supermercados, pasillos y otras muchas aplicaciones.

 Led's Go Project unifies the panel family and introduces the SYLT series. Its 18W power and models with presence or emergency sensors provide the ultimate solution.

Its SMD chip emits a uniform high brightness due to its polycarbonate diffuser. In addition it includes a high power built-in controller and a wide opening angle of 120°. Its structural design allows it to be installed in areas with humidity (IP54) .

This product's technical features make it the ideal equipment for commercial and residential areas, offices, supermarkets, corridors and it has many other applications.

 A Led's Go Project unifica a família de painéis, introduzindo a série SYLT, para oferecer a melhor solução de superfície definitiva, com uma potência de 18 W e com modelos com sensor de presença ou de emergência.

O seu chip SMD emite um alto brillo e uniformidade, graças ao seu difusor de policarbonato, além do controlador embutido de alta potência e de um amplio ângulo de abertura de 120 °, além de um design estrutural que cumpre as condições de instalação em áreas com umidade (IP54). Todas as características técnicas deste produto fazem dele um equipamento ideal para áreas comerciais e residenciais, escritórios, supermercados, corredores e muitas outras aplicações.



IP  
54



IK  
04



85% RH



AC  
100V  
240V



°C Tr

-10°

+40°



Hz  
50/60



40.000h



luz de emergencia



sensor de presencia

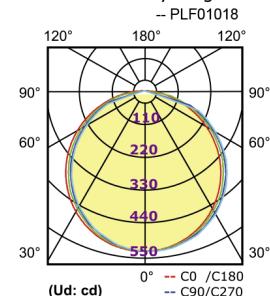


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DRIVER  
INCORPORADO

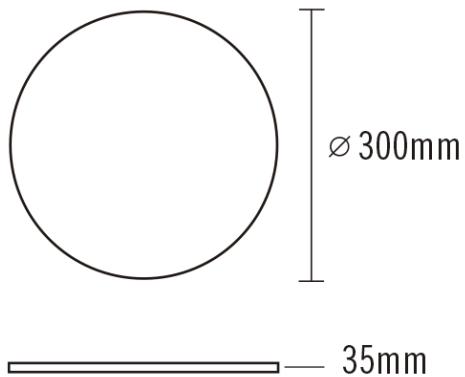
Polar intensity diagram  
-- PLF01018



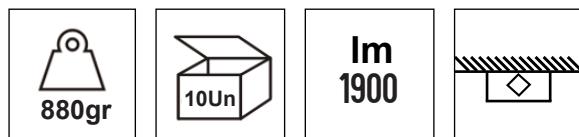


# SYLT 18W

ID. PLF01018



ID	EAN-13	W	CCT	Im	Ba°	TIPO/TYPE
PLF01018/CWS840N	8436549159978	18W	4000K	1900	120°	BASIC
PLF01018/CWS840NS	8436549159985	18W	4000K	1900	120°	SENSOR
PLF01018/CWS840NSE	8436549159992	18W	4000K	1900	120°	EMERGENCY







# FOCO CARRIL

## / TRACK LIGHT / FOCO CARRIL

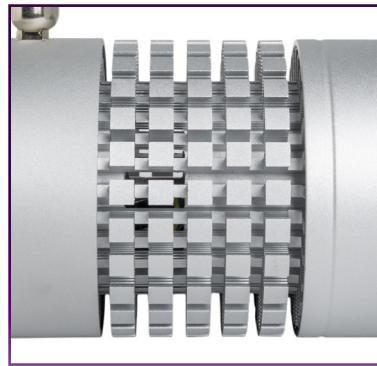


# NIXFIRE



CE





 PhoENIX FIRE, surge de la necesidad de iluminar zonas concretas, con un diseño inigualable. Rotativo 350° y pivotante 90°, es un producto ideal para iluminar múltiples zonas comerciales.

Dispone de ópticas ("Cameta") patentadas desde 24 a 90 grados de apertura, según necesidad, un chip cree COB, sin sombras y con una fuerte penetrabilidad, un factor de potencia de más de 0,95 y ofrece la opción regulable con un rango de atenuación suave de 100% a 10% sin parpadeos.

Con tres tipos de acabado, negro, blanco y plata, su diseño de cables invisible y el adaptador universal de 3 circuitos, la serie NIXFIRE de foco de carril, ofrece una solución idónea para zonas como Residencias, joyerías, Museos o galerías de arte, restauración, etc.

 PhoENIX FIRE, with its unparalleled design, was created to light concrete areas. Rotating 350° and pivoting 90°, it is the ideal product to illuminate multiple commercial areas.

It has ("Cameta") patented optics from 24 to 90 degrees of aperture, as required. A chip creates COB, without shadows and with strong penetrability. It has a power factor of more than 0.95 and it offers an adjustable option with a soft attenuation range from 100% to 10% without flickering.

With three types of finish, black, white and silver, its invisible cable design and the universal 3-circuit adapter, the NIXFIRE focus track series offers the ideal solution for residences, jewelers, museums or art galleries and restaurants.

 PhoENIX FIRE surge da necessidade de iluminar áreas concretas, com um design inigualável. Rotativo a 350 ° pivotante a 90 °, é um produto ideal para iluminar várias áreas comerciais.

Dispõe de ópticas ("Cameta") patenteadas de 24 a 90 graus de abertura, conforme necessário, de um chip cree COB, sem sombras e com uma forte penetrabilidade, de um fator de potência de mais de 0,95, e oferece a opção ajustável com uma faixa de atenuação suave de 100% a 10% sem cintilação.

Com três tipos de acabamento, preto, branco e prateado, o seu design de fios invisíveis e o adaptador universal de 3 circuitos, a série NIXFIRE de foco em carril oferece uma solução ideal para áreas como residências, joalarias, museus ou galerias de arte, restauração, etc.



IP  
20



85%  
RH

50ms  
0-100%



°C Tr  
-20°  
+40°  
AC  
220V  
240V  
Hz  
50/60



40.000h



0,3m



CRI  
90



- +  
0-10V



2700K  
3000K



4000K  
5000K



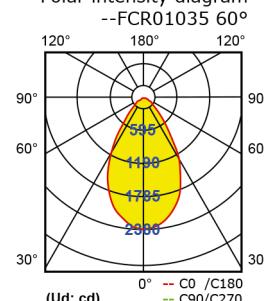
24°  
38°



60°  
90°

DRIVER  
INCORPORADO

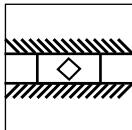
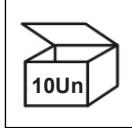
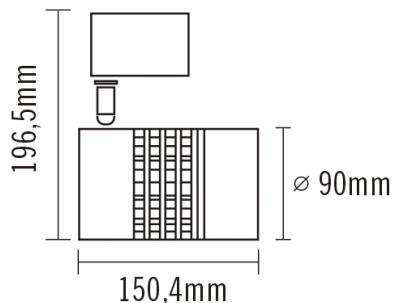
Polar intensity diagram  
--FCR01035 60°





# NIXFIRE 35W

ID. FCR.01.035



ID	EAN-13	W	CCT	Im	Ba°	COLOR / COLOUR
FCR.01.035.01	8436549151194	35W	3000K	3164	60°	●
FCR.01.035.02	8436549151200	35W	4000K	3244	60°	●
FCR.01.035.03	8436549151217	35W	5000K	3406	60°	●
FCR.01.035.04	8436549151224	35W	3000K	3164	60°	○
FCR.01.035.05	8436549151231	35W	4000K	3244	60°	○
FCR.01.035.06	8436549151248	35W	5000K	3406	60°	○
FCR.01.035.07	8436549152900	35W	3000K	3164	60°	○*
FCR.01.035.08	8436549152917	35W	4000K	3244	60°	○*
FCR.01.035.09	8436549152924	35W	5000K	3406	60°	○*
FCR.01.035.10	8436549152931	35W	3000K	3117	38°	●
FCR.01.035.11	8436549152948	35W	4000K	3197	38°	●
FCR.01.035.12	8436549152955	35W	5000K	3357	38°	●
FCR.01.035.13	8436549152962	35W	3000K	3117	38°	○
FCR.01.035.14	8436549152979	35W	4000K	3197	38°	○
FCR.01.035.15	8436549152986	35W	5000K	3357	38°	○
FCR.01.035.16	8436549152993	35W	3000K	3117	38°	○*
FCR.01.035.17	8436549153006	35W	4000K	3197	38°	○*
FCR.01.035.18	8436549153013	35W	5000K	3357	38°	○*
FCR.01.035.19	8436549153082	35W	3000K	3071	24°	●
FCR.01.035.20	8436549153099	35W	4000K	3150	24°	●
FCR.01.035.21	8436549153105	35W	5000K	3307	24°	●
FCR.01.035.22	8436549153112	35W	3000K	3071	24°	○
FCR.01.035.23	8436549153129	35W	4000K	3150	24°	○
FCR.01.035.24	8436549153136	35W	5000K	3307	24°	○
FCR.01.035.25	8436549153143	35W	3000K	3071	24°	○*
FCR.01.035.26	8436549153150	35W	4000K	3150	24°	○*
FCR.01.035.27	8436549153167	35W	5000K	3307	24°	○*
FCR.01.035.28	8436549150876	35W	3000K	3211	90°	●
FCR.01.035.29	8436549150883	35W	4000K	3292	90°	●
FCR.01.035.30	8436549150890	35W	5000K	3455	90°	●
FCR.01.035.31	8436549150906	35W	3000K	3211	90°	○
FCR.01.035.32	8436549150913	35W	4000K	3292	90°	○
FCR.01.035.33	8436549150920	35W	5000K	3455	90°	○
FCR.01.035.34	8436549150937	35W	3000K	3211	90°	○*
FCR.01.035.35	8436549150944	35W	4000K	3292	90°	○*
FCR.01.035.36	8436549150951	35W	5000K	3455	90°	○*



NIXFIRE

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS



## ÓPTICAS OPTICS



ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR.AC.OPT.24	8436549151095	OPTICA 24° NIXFIRE / 24° NIXFIRE OPTICS
FCR.AC.OPT.38	8436549150968	OPTICA 38° NIXFIRE / 38° NIXFIRE OPTICS
FCR.AC.OPT.60	8436549151774	OPTICA 60° NIXFIRE / 60° NIXFIRE OPTICS
FCR.AC.OPT.90	8436549151781	OPTICA 90° NIXFIRE / 90° NIXFIRE OPTICS

## PANAL DE ABEJA HONEYCOMB

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR01AC/HCG	8436549151798	PANAL DE ABEJA NIXFIRE NEGRO / HONEYCOMB NIXFIRE BLACK
FCR01AC/HCGWT	8436549151804	PANAL DE ABEJA NIXFIRE BLANCO / HONEYCOMB NIXFIRE WHITE



## SNOOT SNOOT

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR01AC/SNT	8436549151927	SNOOT NIXFIRE NEGRO / SNOOT NIXFIRE BLACK
FCR01AC/SNTWT	8436549151934	SNOOT NIXFIRE BLANCO / SNOOT NIXFIRE WHITE

## DRIVERS DRIVERS

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR01035/DTW	8436549152122	DRIVER NIXFIRE 35W REGULABLE TRIAC BLANCO / DRIVER NIXFIRE 35W ADJUSTABLE TRIAC WHITE
FCR01035/DTB	8436549152139	DRIVER NIXFIRE 35W REGULABLE TRIAC NEGRO / DRIVER NIXFIRE 35W ADJUSTABLE TRIAC BLACK



# JETFIRE



CE



RoHS  
COMPLIANT



 La serie JETFIRE del foco de carril de AOD proporciona un diseño excepcional entre los equipos de la misma familia, con su fuente de alimentación integrada en una sola pieza.

Este modelo introduce una óptica “Cameta” patentada de 15 grados de apertura para resaltar aún más los elementos, además de las de 24, 38 y 60 grados ya disponibles en otros modelos de la marca, con factor de alta potencia de más de 0,95, rotación de 350° y pivot de 90°.

La disponibilidad de este equipo en 22 y 35w y los 110lm/ W de salida que produce, es apto para su uso en múltiples zonas como Tiendas minoristas, museos, galerías de arte, hoteles, etc.

 The outstanding design of the AOD focus track JETFIRE makes it exceptional among equipment of the same family with its integrated power supply in a single part.

This model introduces a patented “Cameta” optic of 15 degrees of opening, which highlights the elements even more, in addition to those of 24, 38 and 60 degrees already available in brand other models. It has a high power factor of more than 0.95 and a rotation of 350° and pivot of 90°.

This equipment is available in 22 and 35W and has a capacity of up to 110lm / W output, which make it particularly suitable for use in many locations such as retail stores, museums, art galleries and hotels.

 A série JETFIRE do foco de carril da AOD oferece um design excepcional entre os equipamentos da mesma família, com a sua fonte de alimentação integrada numa única peça.

Este modelo introduz uma ótica “Cameta” patenteada de 15 graus de abertura para realçar ainda mais os elementos, para além das de 24, 38 e 60 graus já disponíveis noutros modelos da marca, com um elevado fator de potência superior a 0, 95, rotação de 350 ° e pivotante a 90 °.

A disponibilidade deste equipamento em 22 e 35 W e a possibilidade de até 110 lm/W de saída que produz tornam-no adequado para uso em várias áreas, como lojas de retalho, museus, galerias de arte, hotéis, etc.

	IP 20		85%RH			AC 220V 240V	Hz 50/60
	50.000h		0,3m		CRI 80	CRI 90*	
	3000K		4000K		5000K*	15°	24°

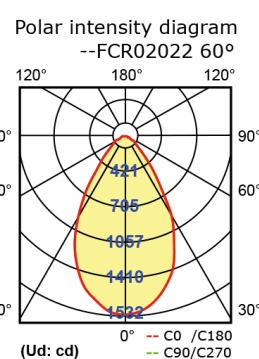
15°

24°

38°

60°

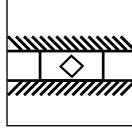
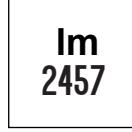
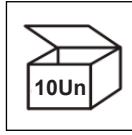
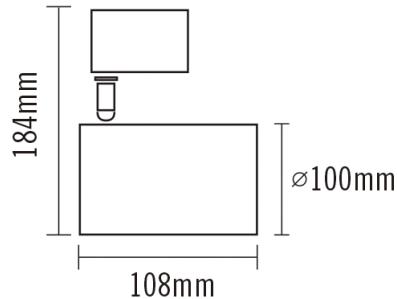
DRIVER  
INCORPORADO





# JETFIRE 22W

ID. FCR02022

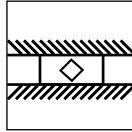
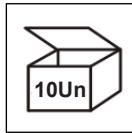
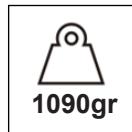
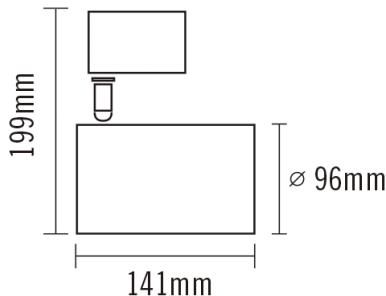


ID	EAN-13	W	CCT	Im	Ba°	COLOR / COLOUR
FCR02022/BK82715ND	8436549156366	22W	2700K	2100	15°	●
FCR02022/BK82724ND	8436549156403	22W	2700K	2131	24°	●
FCR02022/BK82738ND	8436549156441	22W	2700K	2157	38°	●
FCR02022/BK82760ND	8436549156489	22W	2700K	2163	60°	●
FCR02022/BK83015ND	8436549156373	22W	3000K	2200	15°	●
FCR02022/BK83024ND	8436549156410	22W	3000K	2233	24°	●
FCR02022/BK83038ND	8436549156458	22W	3000K	2266	38°	●
FCR02022/BK83060ND	8436549156496	22W	3000K	2300	60°	●
FCR02022/BK84015ND	8436549156380	22W	4000K	2250	15°	●
FCR02022/BK84024ND	8436549156427	22W	4000K	2284	24°	●
FCR02022/BK84038ND	8436549156465	22W	4000K	2318	38°	●
FCR02022/BK84060ND	8436549156502	22W	4000K	2352	60°	●
FCR02022/BK85015ND	8436549156397	22W	5000K	2350	15°	●
FCR02022/BK85024ND	8436549156434	22W	5000K	2385	24°	●
FCR02022/BK85038ND	8436549156472	22W	5000K	2421	38°	●
FCR02022/BK85060ND	8436549156519	22W	5000K	2457	60°	●
FCR02022/WT82715ND	8436549156205	22W	2700K	2100	15°	○
FCR02022/WT82724ND	8436549156243	22W	2700K	2131	24°	○
FCR02022/WT82738ND	8436549156281	22W	2700K	2157	38°	○
FCR02022/WT82760ND	8436549156328	22W	2700K	2163	60°	○
FCR02022/WT83015ND	8436549156212	22W	3000K	2200	15°	○
FCR02022/WT83024ND	8436549156250	22W	3000K	2233	24°	○
FCR02022/WT83038ND	8436549156298	22W	3000K	2266	38°	○
FCR02022/WT83060ND	8436549156335	22W	3000K	2300	60°	○
FCR02022/WT84015ND	8436549156229	22W	4000K	2250	15°	○
FCR02022/WT84024ND	8436549156267	22W	4000K	2284	24°	○
FCR02022/WT84038ND	8436549156304	22W	4000K	2318	38°	○
FCR02022/WT84060ND	8436549156342	22W	4000K	2352	60°	○
FCR02022/WT85015ND	8436549156236	22W	5000K	2350	15°	○
FCR02022/WT85024ND	8436549156274	22W	5000K	2385	24°	○
FCR02022/WT85038ND	8436549156311	22W	5000K	2421	38°	○
FCR02022/WT85060ND	8436549156359	22W	5000K	2457	60°	○



# JETFIRE 35W

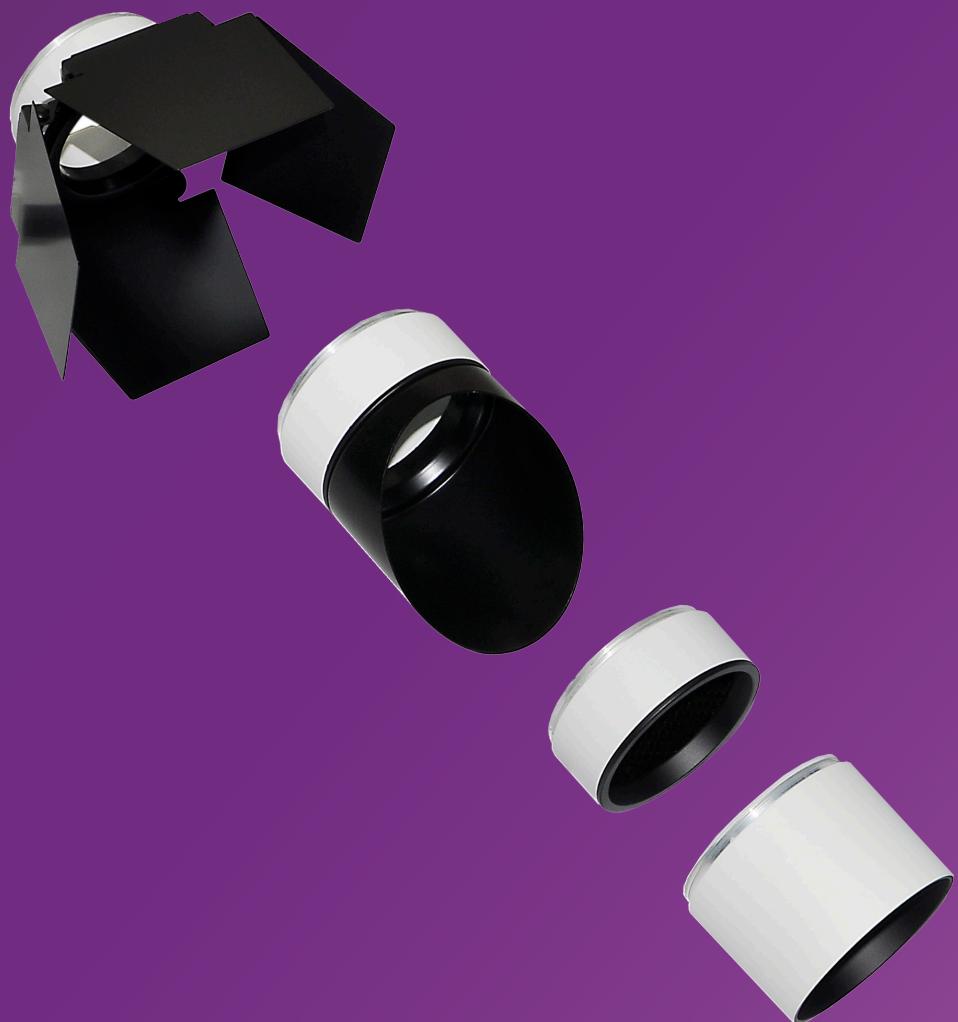
ID. FCR02035



ID	EAN-13	W	CCT	Im	Ba°	COLOR / COLOUR
FCR02035/WT83024	8436549157530	35W	3000K	3000	24°	○
FCR02035/WT84024	8436549157547	35W	4000K	3200	24°	○
FCR02035/WT85024	8436549157554	35W	5000K	3300	24°	○
FCR02035/WT83038	8436549157578	35W	3000K	3045	38°	○
FCR02035/WT84038	8436549157585	35W	4000K	3247	38°	○
FCR02035/WT85038	8436549157592	35W	5000K	3347	38°	○
FCR02035/WT83060	8436549157615	35W	3000K	3090	60°	○
FCR02035/WT84060	8436549157622	35W	4000K	3269	60°	○
FCR02035/WT85060	8436549157639	35W	5000K	3396	60°	○
FCR02035/BK83024	8436549157691	35W	3000K	3000	24°	●
FCR02035/BK84024	8436549157707	35W	4000K	3200	24°	●
FCR02035/BK85024	8436549157714	35W	5000K	3300	24°	●
FCR02035/BK83038	8436549157738	35W	3000K	3045	38°	●
FCR02035/BK84038	8436549157745	35W	4000K	3247	38°	●
FCR02035/BK85038	8436549157752	35W	5000K	3347	38°	●
FCR02035/BK83060	8436549157776	35W	3000K	3090	60°	●
FCR02035/BK84060	8436549157783	35W	4000K	3269	60°	●
FCR02035/BK85060	8436549157790	35W	5000K	3396	60°	●

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS

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## ÓPTICAS OPTICS



ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR02AC/OP15	8436549151941	OPTICA 15° JETIFIRE 22W / 15° JETFIRE 22W OPTICS
FCR02AC/OP24	8436549151958	OPTICA 24° JETIFIRE 22W / 24° JETFIRE 22W OPTICS
FCR02AC/OP38	8436549151965	OPTICA 38° JETIFIRE 22W / 38° JETFIRE 22W OPTICS
FCR02AC/OP60	8436549151972	OPTICA 60° JETIFIRE 22W / 60° JETFIRE 22W OPTICS
FCR02AC/OP24-2	8436549152023	OPTICA 24° JETIFIRE 35W / 24° JETFIRE 35W OPTICS
FCR02AC/OP38-2	8436549152030	OPTICA 38° JETIFIRE 35W / 38° JETFIRE 35W OPTICS
FCR02AC/OP60-2	8436549152047	OPTICA 60° JETIFIRE 35W / 60° JETFIRE 35W OPTICS

## SNOOT SNOOT

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR02AC/SNTWT	8436549151255	SNOOT JETIFIRE 22W BLANCO / SNOOT JETIFIRE 22W WHITE
FCR02AC/SNT	8436549151989	SNOOT JETIFIRE 22W NEGRO / SNOOT JETIFIRE 22W BLACK
FCR02AC/SNTWT-2	8436549152146	SNOOT JETIFIRE 35W BLANCO / SNOOT JETIFIRE 35W BLACK
FCR02AC/SNT-2	8436549152054	SNOOT JETIFIRE 35W NEGRO / SNOOT JETIFIRE 35W BLACK



## PANAL DE ABEJA HONEYCOMB



ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR02AC/HCGWT	8436549151262	PANAL DE ABEJA JETIFIRE 22W BLANCO / HONEYCOMB JETFIRE 22W WHITE
FCR02AC/HCG	8436549151996	PANAL DE ABEJA JETIFIRE 22W NEGRO / HONEYCOMB JETFIRE 22W BLACK
FCR02AC/HCGWT-2	8436549152153	PANAL DE ABEJA JETIFIRE 35W BLANCO / HONEYCOMB JETFIRE 35W WHITE
FCR02AC/HCG-2	8436549152092	PANAL DE ABEJA JETIFIRE 35W NEGRO / HONEYCOMB JETFIRE 35W BLACK

## WALL WASH WALL WASH

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR02AC/WW	8436549152009	WALL WASH JETFIRE 22W NEGRO / WALL WASH JETFIRE 22W BLACK
FCR02AC/WW-2	8436549152085	WALL WASH JETFIRE 35W NEGRO / WALL WASH JETFIRE 35W BLACK



## PANTALLA ANTIDESLUMBRANTE ANTI-GLARE SCREEN

ID	EAN	DESCRIPCIÓN / DESCRIPTION
FCR02AC/PA	8436549152016	PANTALLA JETIFIRE 22W NEGRO / ANTI-GLARE SCREEN JETFIRE 22W BLACK
FCR02AC/PA-2	8436549152467	PANTALLA JETIFIRE 35W NEGRO / ANTI-GLARE SCREEN JETFIRE 35W BLACK

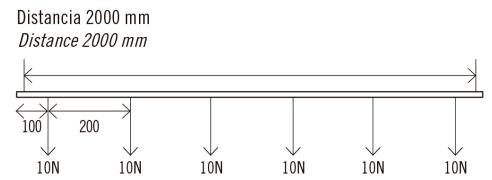
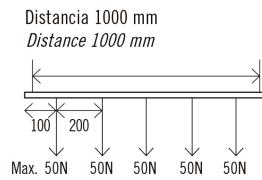
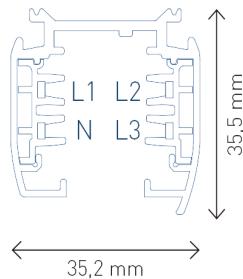
# CARRIL TRIFÁSICO





## CARRIL TRIFÁSICO 1m / TRIPHASIC TRACK 1m / CARRIL TRIFASICO 1m

ID. TRS.R010

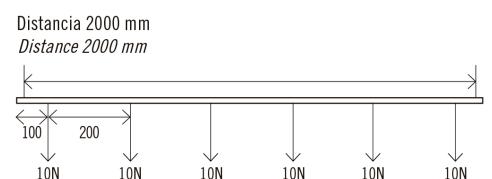
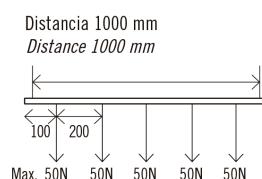
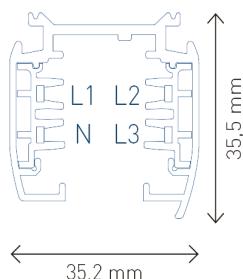


1 m



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ID. TRS.R020

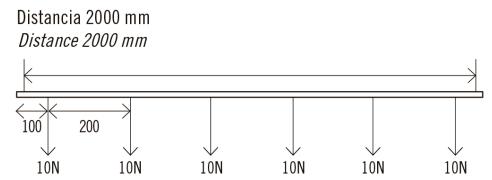
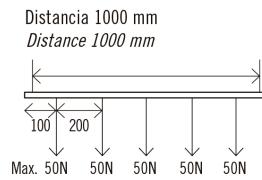
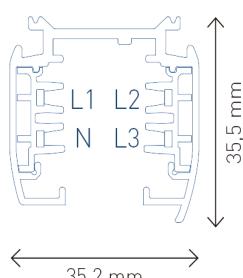


2 m



## CARRIL TRIFÁSICO 3m / TRIPHASIC TRACK 3m / CARRIL TRIFASICO 3m

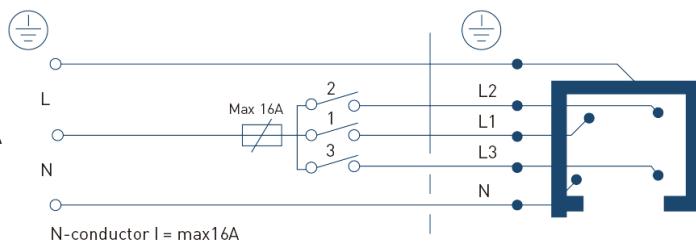
ID. TRS.R030



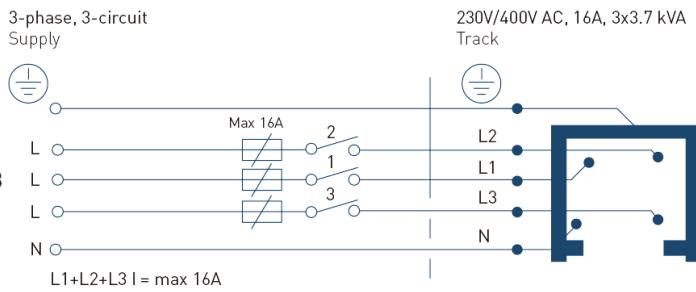
3 m



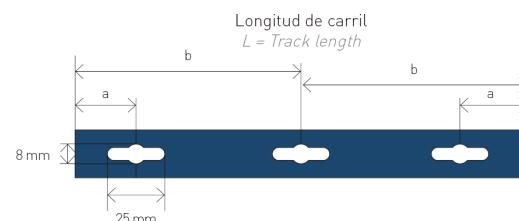
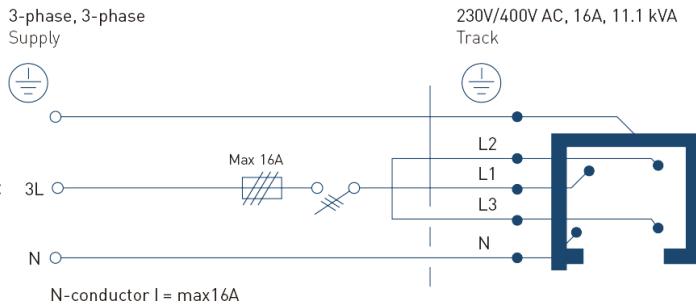
1-phase, 3-circuit  
Supply



3-phase, 3-circuit  
Supply



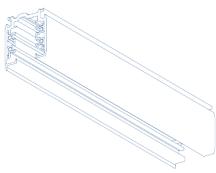
3-phase, 3-phase  
Supply

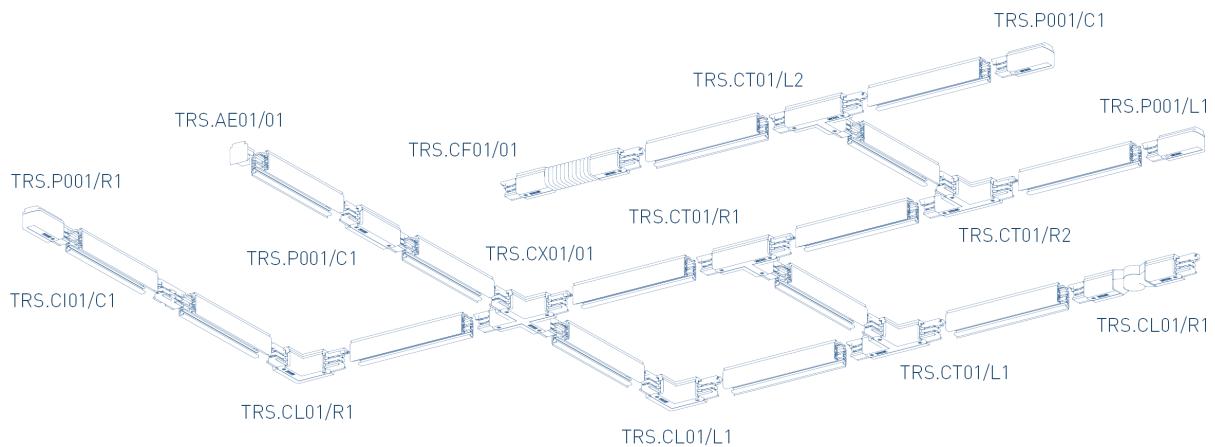


L/mm	a/mm	b/mm	c/mm
1000	100		
2000	100	1000	
3000	100	1500	

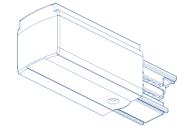
La distancia de fijación recomendada es de 1000 mm.  
The recommended fastening distance is 1000 mm.

## CARRIL TRIFÁSICO UNIVERSAL / UNIVERSAL TRIPHASIC TRACK

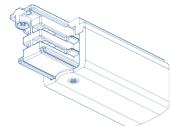
ID	DESCRIPCIÓN / DESCRIPTION	EAN
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TRS.R010/SV	CARRIL TRIFASICO PLATA 1 METRO CLASE 1 / SILVER TRIPHASIC TRACK 1 METER CLASS 1	8436549154027
TRS.R010/WT	CARRIL TRIFASICO BLANCO 1 METRO CLASE 1 / WHITE TRIPHASIC TRACK 1 METER CLASS 1	8436549154003
TRS.R020/BK	CARRIL TRIFASICO NEGRO 2 METROS CLASE 1 / BLACK TRIPHASIC TRACK 2 METER CLASS 1	8436549154041
TRS.R020/SV	CARRIL TRIFASICO PLATA 2 METROS CLASE 1 / SILVER TRIPHASIC TRACK 2 METER CLASS 1	8436549154058
TRS.R020/WT	CARRIL TRIFASICO BLANCO 2 METROS CLASE 1 / WHITE TRIPHASIC TRACK 2 METER CLASS 1	8436549154034
TRS.R030/BK	CARRIL TRIFASICO NEGRO 3 METROS CLASE 1 / BLACK TRIPHASIC TRACK 3 METER CLASS 1	8436549154072
TRS.R030/SV	CARRIL TRIFASICO PLATA 3 METROS CLASE 1 / SILVER TRIPHASIC TRACK 3 METER CLASS 1	8436549154089
TRS.R030/WT	CARRIL TRIFASICO BLANCO 3 METROS CLASE 1 / WHITE TRIPHASIC TRACK 3 METER CLASS 1	8436549154065



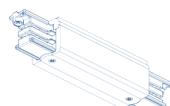
## ACCESORIOS DE CARRIL TRIFÁSICO UNIVERSAL / ACCESORIES FOR TRIPHASIC TRACK



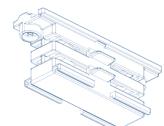
ID	DESCRIPCIÓN / DESCRIPTION	EAN
TRSP001/L1 BK	ALIMENTADOR IZQUIERDA NEGRO CLASE 1 / LEFT END FEEDER BLACK CLASS 1	8436549154102
TRSP001/L1 SV	ALIMENTADOR IZQUIERDA PLATA CLASE 1 / LEFT END FEEDER SILVER CLASS 1	8436549154119
TRSP001/L1 WT	ALIMENTADOR IZQUIERDA BLANCO CLASE 1 / LEFT END FEEDER WHITE CLASS 1	8436549154096



TRSP001/R1 BK	ALIMENTADOR DERECHA NEGRO CLASE 1 / RIGHT END FEEDER BLACK CLASS 1	8436549154133
TRSP001/R1 SV	ALIMENTADOR DERECHA PLATA CLASE 1 / RIGHT END FEEDER SILVER CLASS 1	8436549154140
TRSP001/R1 WT	ALIMENTADOR DERECHA BLANCO CLASE 1 / RIGHT END FEEDER WHITE CLASS 1	8436549154126

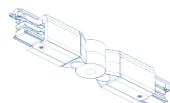


TRSP001/C1 BK	ALIMENTADOR CENTRAL – UNION NEGRO CLASE 1 / MIDDLE FEEDER UNION – BLACK CLASS 1	8436549154164
TRSP001/C1 SV	ALIMENTADOR CENTRAL – UNION PLATA CLASE 1 / MIDDLE FEEDER UNION – SILVER CLASS 1	8436549154171
TRSP001/C1 WT	ALIMENTADOR CENTRAL – UNION BLANCO CLASE 1 / MIDDLE FEEDER UNION – WHITE CLASS 1	8436549154157

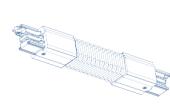


TRSC101/C1 BK	UNION LINEAL CONDUCTORA NEGRO CLASE 1 / BLACK STRAIGHT CONNECTOR CLASS 1	8436549154287
TRSC101/C1 SV	UNION LINEAL CONDUCTORA PLATA CLASE 1 / SILVER STRAIGHT CONNECTOR CLASS 1	8436549154294
TRSC101/C1 WT	UNION LINEAL CONDUCTORA BLANCO CLASE 1 / WHITE STRAIGHT CONNECTOR CLASS 1	8436549154270

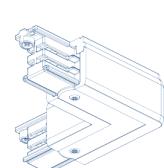
TRSC102/A1 BK	UNION LINEAL AISLADA NEGRO CLASE 1 / BLACK ISOLATED STRAIGHT CONNECTOR CLASS 1	8436549154317
TRSC102/A1 SV	UNION LINEAL AISLADA PLATA CLASE 1 / SILVER ISOLATED STRAIGHT CONNECTOR CLASS 1	8436549154324
TRSC102/A1 WT	UNION LINEAL AISLADA BLANCO CLASE 1 / WHITE ISOLATED STRAIGHT CONNECTOR CLASS 1	8436549154300



TRSCF02/01 BK	CODO L ORIENTABLE 180° NEGRO CLASE 1 / ADJUSTABLE ELBOW 180° BLACK CLASS 1	8436549154256
TRSCF02/01 SV	CODO L ORIENTABLE 180° PLATA CLASE 1 / ADJUSTABLE ELBOW 180° SILVER CLASS 1	8436549154263
TRSCF02/01 WT	CODO L ORIENTABLE 180° BLANCO CLASE 1 / ADJUSTABLE ELBOW 180° WHITE CLASS 1	8436549154249



TRSCF01/01 BK	UNION FLEXIBLE NEGRO CLASE 1 / FLEXIBLE CONNECTOR BLACK CLASS 1	8436549154492
TRSCF01/01 SV	UNION FLEXIBLE PLATA CLASE 1 / FLEXIBLE CONNECTOR SILVER CLASS 1	8436549154508
TRSCF01/01 WT	UNION FLEXIBLE BLANCO CLASE 1 / FLEXIBLE CONNECTOR WHITE CLASS 1	8436549154485



ID	DESCRIPCIÓN / DESCRIPTION	EAN
TRSCLO1/L1 BK	CODO L IZQUIERDA NEGRO CLASE 1 / LEFT ELBOW L FORM BLACK CLASS 1	8436549154195
TRSCLO1/L1 SV	CODO L IZQUIERDA PLATA CLASE 1 / LEFT ELBOW L FORM SILVER CLASS 1	8436549154201
TRSCLO1/L1 WT	CODO L IZQUIERDA BLANCO CLASE 1 / LEFT ELBOW L FORM WHITE CLASS 1	8436549154188
TRSCLO1/R1 BK	CODO L DERECHA NEGRO CLASE 1 / RIGHT ELBOW L FORM BLACK CLASS 1	8436549154225
TRSCLO1/R1 SV	CODO L DERECHA PLATA CLASE 1 / RIGHT ELBOW L FORM SILVER CLASS 1	8436549154232
TRSCLO1/R1 WT	CODO L DERECHA BLANCO CLASE 1 / RIGHT ELBOW L FORM WHITE CLASS 1	8436549154218

ID	DESCRIPCIÓN / DESCRIPTION	EAN
	TRS.CT01/L1 BK UNION EN T IZQUIERDA L1 NEGRO CLASE 1 / LEFT "T" CONNECTOR L1 BLACK CLASS 1 TRS.CT01/L1 SV UNION EN T IZQUIERDA L1 PLATA CLASE 1 / LEFT "T" CONNECTOR L1 SILVER CLASS 1 TRS.CT01/L1 WT UNION EN T IZQUIERDA L1 BLANCO CLASE 1 / LEFT "T" CONNECTOR L1 WHITE CLASS 1 TRS.CT01/R1 BK UNION EN T DERECHA R1 NEGRO CLASE 1 / RIGHT "T" CONNECTOR R1 BLACK CLASS 1 TRS.CT01/R1 SV UNION EN T DERECHA R1 PLATA CLASE 1 / RIGHT "T" CONNECTOR R1 SILVER CLASS 1 TRS.CT01/R1 WT UNION EN T DERECHA R1 BLANCO CLASE 1 / RIGHT "T" CONNECTOR R1 WHITE CLASS 1 TRS.CT01/L2 BK UNION EN T IZQUIERDA L2 NEGRO CLASE 1 / LEFT "T" CONNECTOR L2 BLACK CLASS 1 TRS.CT01/L2 SV UNION EN T IZQUIERDA L2 PLATA CLASE 1 / LEFT "T" CONNECTOR L2 SILVER CLASS 1 TRS.CT01/L2 WT UNION EN T IZQUIERDA L2 BLANCO CLASE 1 / LEFT "T" CONNECTOR L2 WHITE CLASS 1 TRS.CT01/R2 BK UNION EN T DERECHA R2 NEGRO CLASE 1 / RIGHT "T" CONNECTOR R2 BLACK CLASS 1 TRS.CT01/R2 SV UNION EN T DERECHA R2 PLATA CLASE 1 / RIGHT "T" CONNECTOR R2 SILVER CLASS 1 TRS.CT01/R2 WT UNION EN T DERECHA R2 BLANCO CLASE 1 / RIGHT "T" CONNECTOR R2 WHITE CLASS 1	8436549154348 8436549154355 8436549154331 8436549154379 8436549154386 8436549154362 8436549154409 8436549154416 8436549154393 8436549154430 8436549154447 8436549154423
	TRSCX01/01 BK UNION EN CRUZ NEGRO CLASE 1 / CROSS CONECTOR BLACK CALSS 1 TRSCX01/01 SV UNION EN CRUZ PLATA CLASE 1 / CROSS CONECTOR SILVER CALSS 1 TRSCX01/01 WT UNION EN CRUZ BLANCO CLASE 1 / CROSS CONECTOR WHITE CALSS 1	8436549154461 8436549154478 8436549154454
ID	DESCRIPCIÓN / DESCRIPTION	EAN
	TRS.AE01/01 BK TAPA CIERRE NEGRO CLASE 1 / END CAP BLACK CLASS 1 TRS.AE01/01 SV TAPA CIERRE PLATA CLASE 1 / END CAP SILVER CLASS 1 TRS.AE01/01 WT TAPA CIERRE BLANCO CLASE 1 / END CAP SILVER CLASS 1	8436549154522 8436549154539 8436549154515
	TRS.AM01/01 BK KIT DE SUSPENSION CARRIL NEGRO CLASE 1 / WIRE SUSPENSION KIT BLACK CLASS 1 TRS.AM01/01 SV KIT DE SUSPENSION CARRIL PLATA CLASE 1 / WIRE SUSPENSION KIT SILVER CLASS 1 TRS.AM01/01 WT KIT DE SUSPENSION CARRIL BLANCO CLASE 1 / WIRE SUSPENSION KIT WHITE CLASS 1	8436549154553 8436549154560 8436549154546
	TRS.AM02/01 BK KIT FIJACION TECHO NEGRO CLASE 1 / SURFACE MOUNTING CLAMP BLACK CLASS 1 TRS.AM02/01 SV KIT FIJACION TECHO PLATA CLASE 1 / SURFACE MOUNTING CLAMP SILVER CLASS 1 TRS.AM02/01 WT KIT FIJACION TECHO BLANCO CLASE 1 / SURFACE MOUNTING CLAMP WHITE CLASS 1	8436549154584 8436549154591 8436549154577
	TRS.AM03/01 BK KIT FIJACION LUMINARIA NEGRO CLASE 1 / LUMINARIRE FIXING KIT BLACK CLASS 1 TRS.AM03/01 SV KIT FIJACION LUMINARIA PLATA CLASE 1 / LUMINARIRE FIXING KIT SILVER CLASS 1 TRS.AM03/01 WT KIT FIJACION LUMINARIA BLANCO CLASE 1 / LUMINARIRE FIXING KIT WHITE CLASS 1	8436549154614 8436549154621 8436549154607
	TRS.AM03/02 BK KIT ADAPTADOR A CARRIL 16A 100N CON SCHUKO NEGRO / TRACK ADAPTER KIT 16A 100N WITH BLACK SCHUKO TRS.AM03/02 SV KIT ADAPTADOR A CARRIL 16A 100N CON SCHUKO PLATA / TRACK ADAPTER KIT 16A 100N WITH SILVER SCHUKO TRS.AM03/02 WT KIT ADAPTADOR A CARRIL 16A 100N CON SCHUKO BLANCO / TRACK ADAPTER KIT 16A 100N WITH WHITE SCHUKO	8436549156823 8436549156830 8436549156816
	FCR.AC.11/B BASE BLANCA INDIVIDUAL FOCO CARRIL 22/35W / INDIVIDUAL TRACK BASE 22/35W WHITE FCR.AC.11/N BASE NEGRA INDIVIDUAL FOCO CARRIL 22/35W / INDIVIDUAL TRACK BASE 22/35W BLACK FCR.AC.12/B CAJA BLANCA PARA EMPOTRAR BASE INDIVIDUAL 22/35W / BOX FOR RECESSING INDIVIDUAL BASE 22/35W WHITE FCR.AC.12/N CAJA NEGRA PARA EMPOTRAR BASE INDIVIDUAL 22/35W / BOX FOR RECESSING INDIVIDUAL BASE 22/35W BLACK	8436549152498 8436549152528 8436549152536 8436549152543



# CAMPANA

## / HIGH BAY / CAMPANA



UFO



CE





La campana serie UFO, uno de los productos estrella de la marca AOD, es un equipo versatil y ergonomico, diseñado principalmente para iluminar zonas industriales e instalaciones deportivas.

La fuente de alimentación, meanwell, impermeable, es regulable 0/1-10V de fábrica, dando una solución mas flexible sin incrementar su precio. El chip de alta calidad incorporado SMD3030 de 1W y el resto de características de la serie UFO hacen una luminaria de altas prestaciones y gran durabilidad.

La introducción de una amplia y nueva gamma de accesorios como el kit de emergencia o el sensor de movimiento, cierran el círculo del producto ideal para cualquier ubicacion y necesidad como pueden ser, pavellones, almacenes, talleres, zonas de producción, etc.



The UFO series hood is one of the AOD brand's flagship products. It is versatile and ergonomic and designed mainly to illuminate industrial areas and sports facilities.

The meanwell, waterproof, power supply, , is adjustable, 0 / 1-10V factory setting and provides a more flexible solution without any increase in price. The built-in high-quality SMD3030 1W chip and the other features of the UFO series provide a high performance, long-lasting luminaire. The introduction of a broad, new range of accessories such as the emergency kit or the motion sensor complete what is the ideal product, which satisfies all requirements and is suitable for any location including pavilions, warehouses, workshops and production areas.



A campânea da série UFO, um dos produtos estrela da marca AOD, é um equipamento versátil e ergonómico, projetado principalmente para iluminar áreas industriais e instalações desportivas.

A fonte de alimentação, Meanwell, é à prova de água, ajustável 0/1-10 V de fábrica, dando uma solução mais flexível, sem aumentar o preço. O chip embutido de alta qualidade SMD3030 1 W e os outros recursos da série UFO fazem desta uma luminária de alto desempenho e grande durabilidade.

A introdução de uma ampla e nova gama de acessórios, como o kit de emergência ou o sensor de movimento, fecha o círculo do produto ideal para qualquer localização e necessidade, como podem ser pavilhões, armazéns, oficinas, áreas de produção, etc.



**IP**

**08**



85%RH

0-100%



-20°  
+50°

°C Tr

100V  
277V



50.000h

Hz  
50/60



CRI  
>80



0-10V  
+

5000K



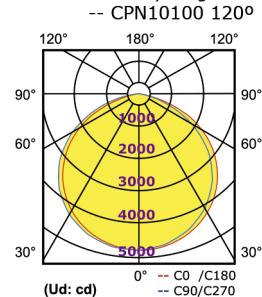
60°

90°



120°  
\*  
DRIVER  
INCORPORADO

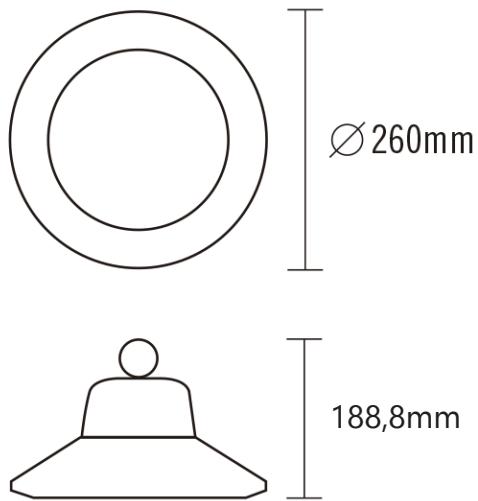
Polar intensity diagram  
-- CPN10100 120°





## UFO 100W

ID. CPN10100

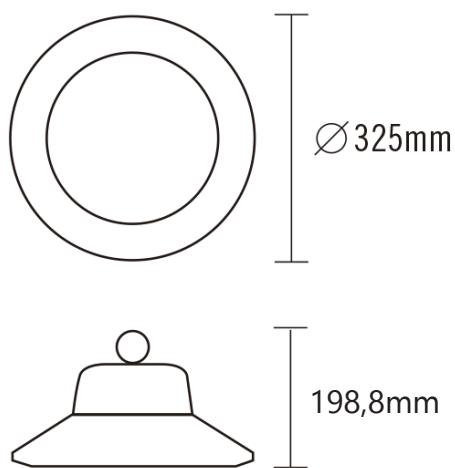


ID	EAN-13	W	CCT	lm	Ba°
CPN10100-60850D	8436549153679	100W	5000K	13000	60°
CPN10100-90850D	8436549153685	100W	5000K	13000	90°
CPN10100-120850D	8436549153693	100W	5000K	13000	120°



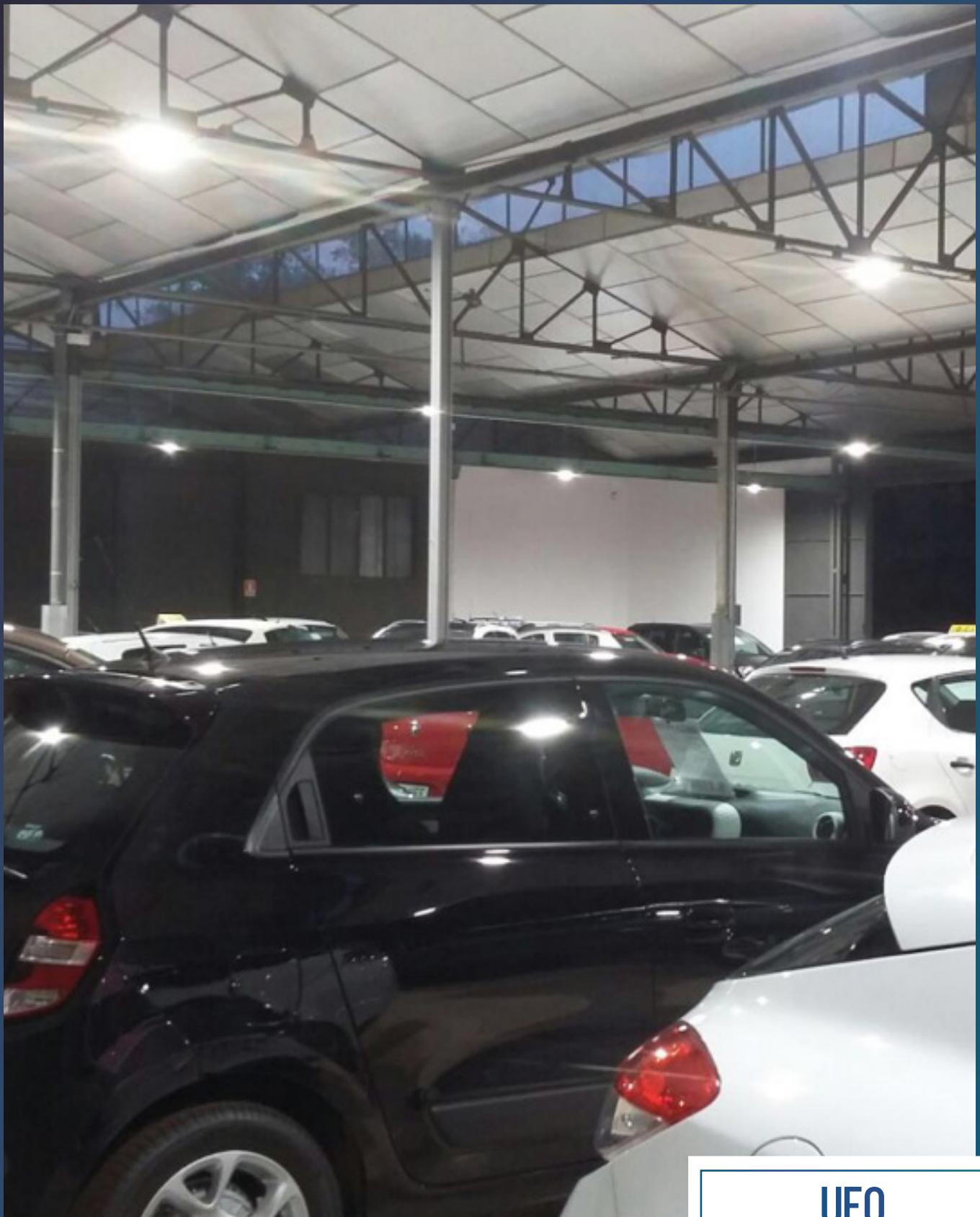
## UFO 160W

ID. CPN10160



ID	EAN-13	W	CCT	lm	Ba°
CPN10160-60850D	8436549153709	160W	5000K	20800	60°
CPN10160-90850D	8436549153716	160W	5000K	20800	90°
CPN10160-120850D	8436549153723	160W	5000K	20800	120°

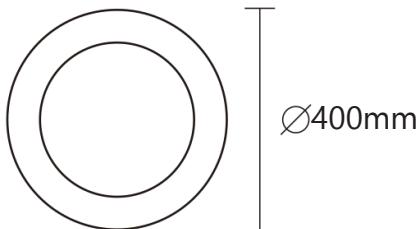




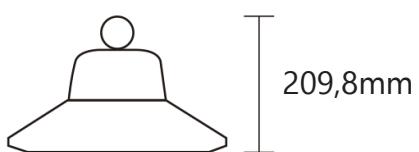


## UFO 200W

ID. CPN10200

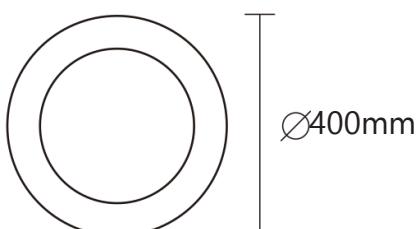


ID	EAN-13	W	CCT	lm	Ba°
CPN10200-60850D	8436549151125	200W	5000K	26000	60°
CPN10200-90850D	8436549151132	200W	5000K	26000	90°
CPN10200-120850D	8436549151149	200W	5000K	26000	120°

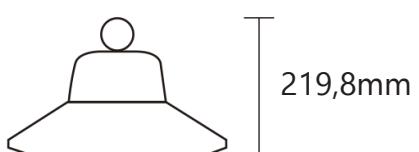


## UFO 240W

ID. CPN10240



ID	EAN-13	W	CCT	lm	Ba°
CPN10240-60850D	8436549151606	240W	5000K	31200	60°
CPN10240-90850D	8436549151675	240W	5000K	31200	90°
CPN10240-120850D	8436549151682	240W	5000K	31200	120°





**UFO**

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS



## SOporte TIPO "U" SUPPORT TYPE "U"



ID	EAN	DESCRIPCIÓN / DESCRIPTION
CPN10100-ACBR1A	8436549151156	SOporte TIPO "U" UFO 100W / SUPPORT TYPE "U" HOOD UFO 100W
CPN10160-ACBR1A	8436549151170	SOporte TIPO "U" UFO 160W / SUPPORT TYPE "U" UFO 160W
CPN10200-ACBR1A	8436549151323	SOporte TIPO "U" UFO 200W / SUPPORT TYPE "U" UFO 200W
CPN10240-ACBR1A	8436549151347	SOporte TIPO "U" UFO 240W / SUPPORT TYPE "U" UFO 240W

## SOporte PARED WALL SUPPORT

ID	EAN	DESCRIPCIÓN / DESCRIPTION
CPN10100-ACBR1B	8436549151163	SOporte PARED UFO 100W / WALL SUPPORT UFO 100W
CPN10160-ACBR1B	8436549151187	SOporte PARED UFO 160W / WALL SUPPORT UFO 160W
CPN10200-ACBR1B	8436549151330	SOporte PARED UFO 200W / WALL SUPPORT UFO 200W
CPN10240-ACBR1B	8436549151354	SOporte PARED UFO 240W / WALL SUPPORT UFO 240W



## SENSOR DE MOVIMIENTO SENSOR KIT PRESENCE

ID	EAN	DESCRIPCIÓN / DESCRIPTION
CPN10100-ACSN	8436549156731	KIT SENSOR PRESENCIA UFO 100W / SENSOR KIT UFO 100W
CPN10160-ACSN	8436549156748	KIT SENSOR PRESENCIA UFO 160W / SENSOR KIT UFO 160W
CPN10200/240-ACSN	8436549156755	KIT SENSOR PRESENCIA UFO 200W/240W / SENSOR KIT UFO 200W/240W

## SENSOR CREPÚSCULAR MOONLIGHT SENSOR

PRÓXIMAMENTE (2019)  
COMMING SOON (2019)

ID	EAN	DESCRIPCIÓN / DESCRIPTION
CPN10100-ACCP	8436549156861	KIT SENSOR CREPÚSCULAR UFO 100W / MOONLIGHT SENSOR UFO 100W
CPN10160-ACCP	8436549156878	KIT SENSOR CREPÚSCULAR UFO 160W / MOONLIGHT SENSOR UFO 160W
CPN10200/240-ACCP	8436549156885	KIT SENSOR CREPÚSCULAR UFO 200W/240W / MOONLIGHT SENSOR UFO 200W/240W





GRID



CE





Su diseño patentado de óptica a modo de cuadricula, le da el nombre a la serie GRID de campanas, siendo el aliado perfecto para zonas en las que sea necesario un índice de deslumbramiento unificado (UGR) bajo, llegando a la posibilidad de ser hasta <14.

La campana serie GRID está diseñada con una pincelada de aluminio puro nº 1070, otorgando una conductividad térmica > 220W/m.K, dispone de 576 chips SMD de 0,5W y de 108 reflectores de alta eficiencia con un ángulo de apantallamiento >26°.

Los modelos disponibles en 125W, 155W y el resto de características de este equipo de gran calidad, hacen que la serie GRID, pueda instalarse en zonas como almacenes, fábricas, estadios, centros comerciales, etc.



The GRID series of bells gets its name from its patented grid optics design and is the perfectly suitable for areas where a low unified glare index (UGR) is required with its capacity to attain up to <14.

The GRID series hood is designed with a pure aluminum No. 1070 stroke, which provides > 220W/mK thermal conductivity. It includes 576 0.5W SMD chips and 108 high efficiency reflectors with a >26° cut-off angle.

The series is available in 125W and 155W models. This, together with this high quality equipment's other features, means that the GRID series can be installed in areas such as warehouses, factories, stadiums and shopping centres.

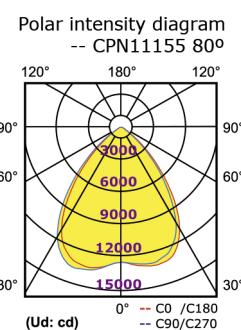


O design patenteado de ótica com grelha dá o nome à série GRID de campânulas, sendo o aliado perfeito para áreas onde seja necessário um baixo índice de brilho unificado (UGR), alcançando a possibilidade de ser até <14.

A campânula da série GRID é projetada com um escovado de alumínio puro n.º 1070, proporcionando uma condutividade térmica >220W/mK, dispõe de 576 chips SMD de 0,5 W e 108 refletores de alta eficiência com um ângulo de projeção >26°.

Os modelos disponíveis em 125W, em 155W e as restantes características deste equipamento de alta qualidade fazem com que a série GRID possa ser instalada em áreas como armazéns, fábricas, estádios, centros comerciais, etc.

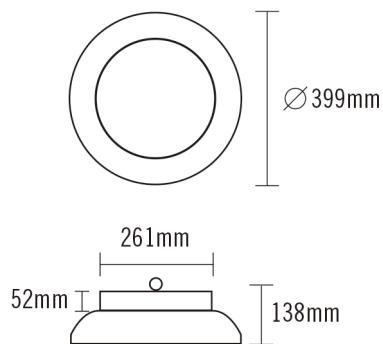
	<b>IP 65</b>		<b>IK 07</b>		<b>CO2</b>		<b>85%RH</b>		<b>0-100%</b>		<b>0-50ms °C Tr -20° +50°</b>		<b>AC 100V 277V</b>
					<b>Hz 50/60</b>				<b>*</b>		<b>UGR&lt;14</b>		<b>UGR&lt;19</b>
					<b>3000K</b>		<b>4000K</b>		<b>5000K</b>		<b>80°</b>		<b>DRIVER INCORPORADO</b>



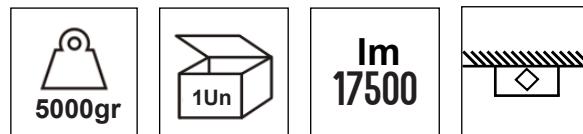


## GRID 125W

ID. CPN11125

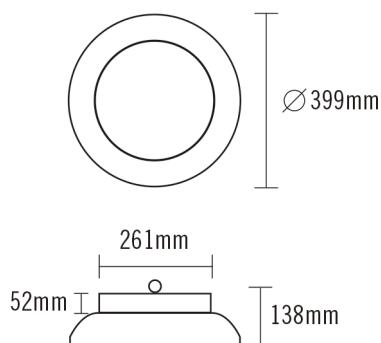


ID	EAN-13	W	CCT	lm	Ba°
CPN11125-80830N	8436549150135	125W	3000K	15800	80°
CPN11125-80840N	8436549150159	125W	4000K	16000	80°
CPN11125-80850N	8436549150173	125W	5000K	17500	80°

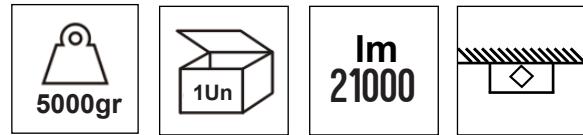


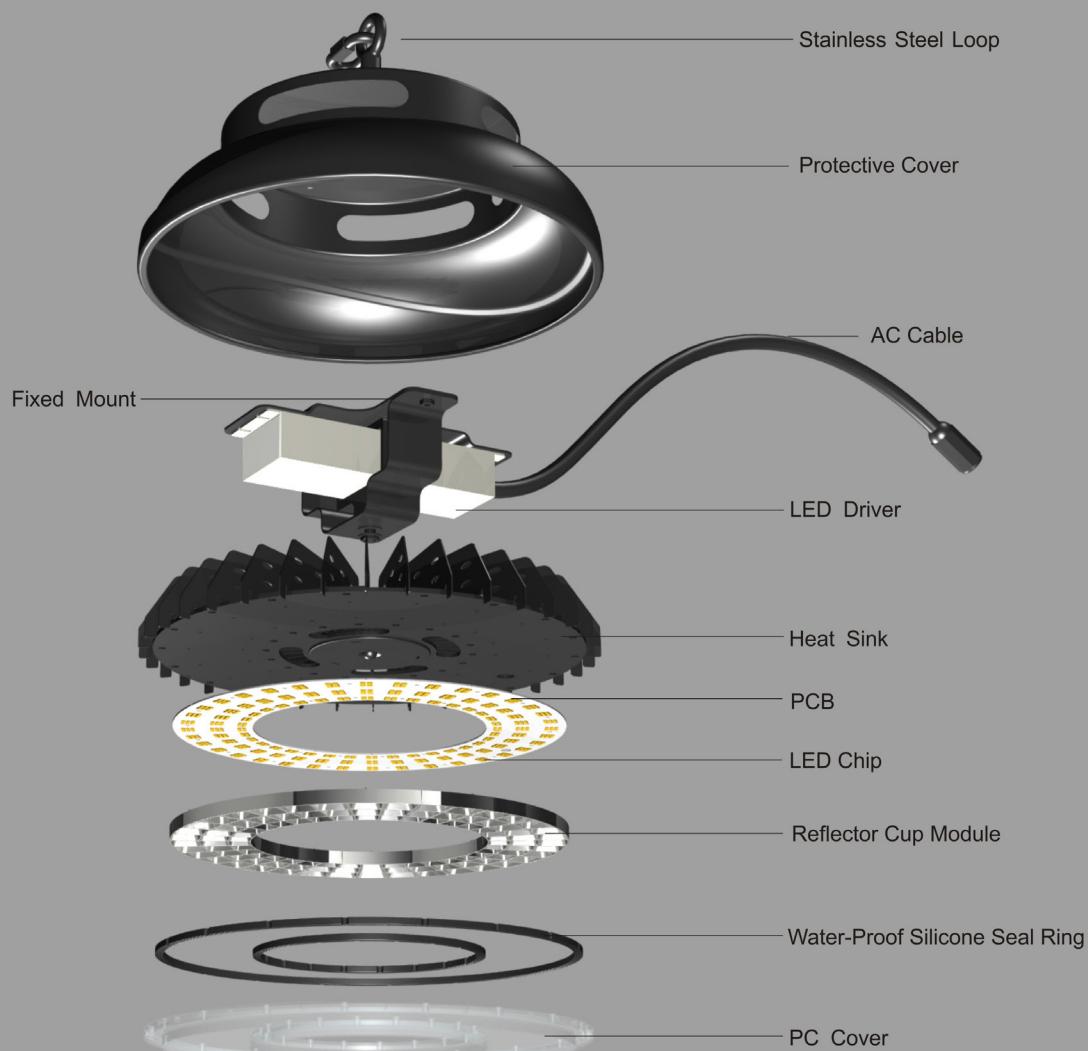
## GRID 155W

ID. CPN11155



ID	EAN-13	W	CCT	lm	Ba°
CPN11155-80830N	8436549150142	155W	3000K	19000	80°
CPN11155-80840N	8436549150166	155W	4000K	20000	80°
CPN11155-80850N	8436549150180	155W	5000K	21000	80°





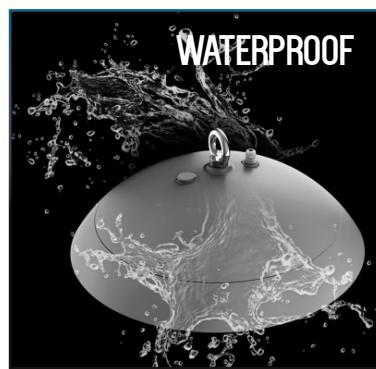
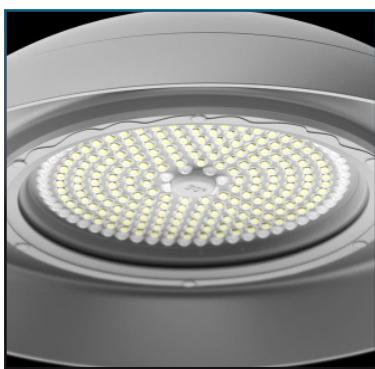
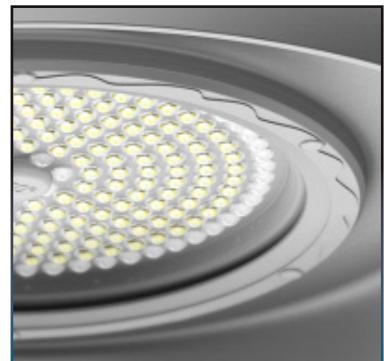
**GRID**

NSF



CE





Para completar la familia campana ofrecemos la serie NSF, una solución para la aplicación de procesos alimentarios, la NSF es un equipo con un diseño exterior simple y sin costuras, fácil de limpiar, dispone de una alta clasificación IP, sin tornillos expuestos, sin vidrio y sin productos químicos tóxicos en el material de fabricación.

La serie NSF está diseñada de forma plana y ovalada, por lo que el polvo y la acumulación de agua no son un problema, además es IP66 e impermeable. Sus ópticas son de policarbonato y el rendimiento es de hasta 160lm/W.

Para mayor seguridad, su tornillería no está expuesta en el exterior, los modelos disponibles en 100W y 150W, y la posibilidad de fabricación de hasta 200W certificados en NSF, hacen un equipo esencial para cualquier zona de manipulación de alimentos.



The NSF series completes the hood family. The series provides a solution for food processes applications. The NSF equipment has a simple exterior design and it is seamless, easy to clean, has a high IP rating, no exposed screws, no glass and there are no toxic chemicals in the material from which it is manufactured.

The NSF series design is flat and oval, which means that dust and water accumulation are not a problem. In addition, it is IP66 and waterproof. Its optics are made of polycarbonate and performance is up to 160lm/W.

To ensure greater safety, screws are not exposed to the outside. Its 100W and 150W models together with the fact that models of up to 200W can be manufactured and certified at NSF, make this essential equipment for food handling area.

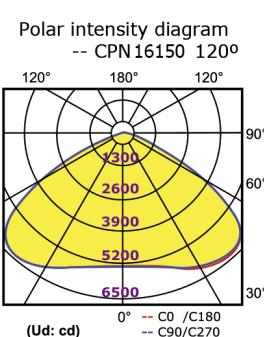


Para completar a família oferecemos a série NSF, uma solução para a aplicação de processos alimentares. O NSF é um equipamento com um design exterior simples e despojado, fácil de limpar, com alta classificação IP, sem parafusos expostos, sem vidro e sem produtos químicos tóxicos no material de fabrico.

A série NSF foi projetada de forma plana e ovalada, pelo que a poeira e a acumulação de água não são problema. Além disso, é IP66 e à prova de água. As suas ópticas são de polycarbonate e o desempenho é de até 160 lm/W.

Para maior segurança, as ferragens não estão expostas ao exterior. Os modelos disponíveis de 100 W e 150 W e a possibilidade de fabricar até 200 W certificados em NSF fazem deste um equipamento essencial para qualquer área de manipulação de alimentos.

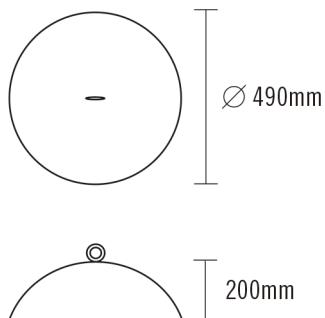
	<b>IP 66</b>	<b>IK 08</b>			85%RH		0-50ms 0-100%		°C Tr -20° +50°	<b>AC 100V 240V</b>
	50.000h		0,5m		50/60					
	5000K		50°		90°		120°			<b>DRIVER INCORPORADO</b>



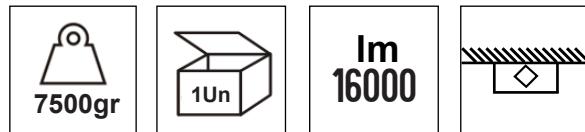


# NSF 100W

ID. CPN16100

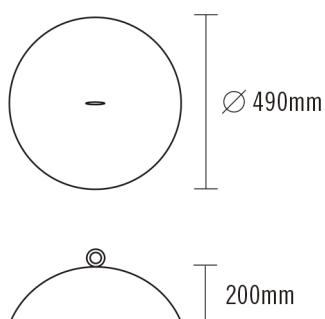


ID	EAN-13	W	CCT	lm	Ba°
CPN16100-50850N	8436549150074	100W	5000K	16000	50°
CPN16100-90850N	8436549150081	100W	5000K	16000	90°
CPN16100-120850N	8436549150098	100W	5000K	16000	120°




# NSF 150W

ID. CPN16150



ID	EAN-13	W	CCT	lm	Ba°
CPN16150-50850N	8436549150104	150W	5000K	24000	50°
CPN16150-90850N	8436549150111	150W	5000K	24000	90°
CPN16150-120850N	8436549150128	150W	5000K	24000	120°





NSF



# PANTALLA ESTANCA

/ TRI-PROOF LIGHT / LUMINARIAS ESTÁNCIAS

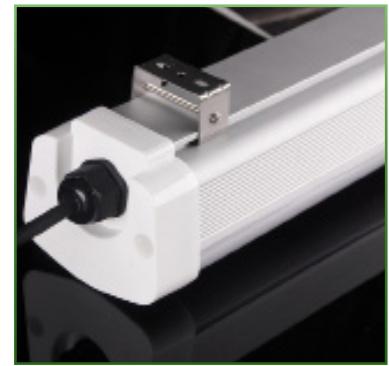
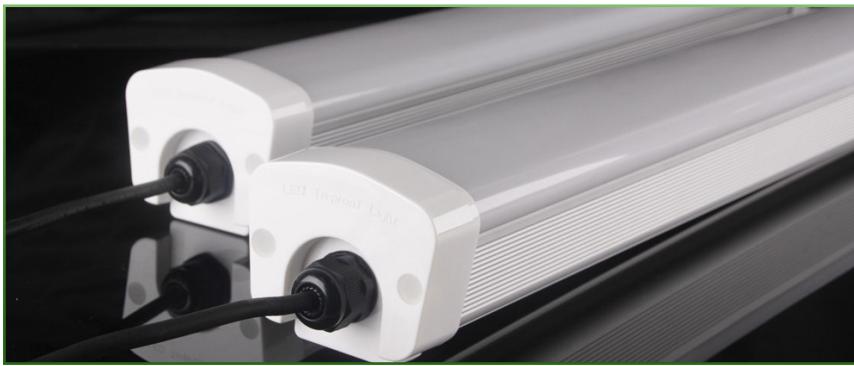


PRO



CE





 La pantalla estanca de AOD es el sustituto natural a las antiguas estancas de dos tubos fluorescentes de 36W o 58W. Fabricada en una sola pieza, ofrece una solución de fácil instalación, gran ahorro energético y es posible su conexión lineal.

Incorpora un chip SMD 2835 de alto rendimiento, una cubierta de policarbonato de alta transmisión lumínica duradera y cumple con las pruebas de alto impacto IK10. La estanca PRO es a prueba de humedad y polvo (IP65) y genera una salida de 130lm/W.

A modo opcional, la estanca PRO puede incorporar la solución regulable, kit de emergencia y sensor microondas, sin sacrificar su diseño ni su estanqueidad, la disponibilidad del modelo en 1200mm y en 1500mm lo hacen ideal para iluminar zonas como estaciones de transporte público, pasillos, supermercados, piscinas, almacenes, salas de exhibición, etc.

 The sealed AOD screen is the natural substitute for the old sealed two-tube 36W or 58W fluorescent tubes. It is manufactured in a single part, is an easy to install solution and offers great energy savings. Series connection is possible.

It incorporates a high performance SMD 2835 chip, a durable polycarbonate cover with high light transmission and it meets the IK10 high impact tests. The sealed PRO seal damp and dust proof (IP65) and it generates an output of up to 130lm / W.

Optionally, the sealed PRO seal can incorporate the adjustable solution, emergency kit, and microwave sensor, without sacrificing its design or sealing. The model's availability in 1200mm and 1500mm make it ideal for lighting areas such as public transport stations, corridors, supermarkets, swimming pools, warehouses, exhibition halls and pavilions.

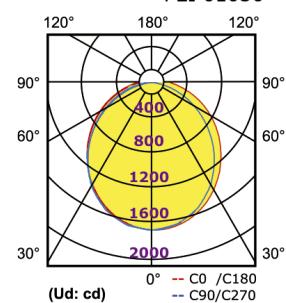
 O ecrã estanque da AOD é o substituto natural para as antigas caixas estanques de dois tubos fluorescentes de 36 W ou 58 W. Fabricado numa única peça, oferece uma solução de fácil instalação, grande economia de energia e a sua ligação em série é possível.

Incorpora um chip SMD 2835 de alto desempenho, uma cobertura de policarbonato com alta transmissão de luz, duradoura e que cumpre com as provas de alto impacto IK10. A caixa estanque PRO é à prova de humidade e poeira (IP65) e gera uma saída de até 130 lm/W.

Em termos operacionais, a caixa estanque PRO pode incorporar a solução ajustável, kit de emergência e sensor de micro-ondas, sem sacrificar o seu design ou estanqueidade; a disponibilidade do modelo em 1200mm e 1500 mm torna-o ideal para áreas de iluminação como estações de transportes públicos, corredores, supermercados, piscinas, armazéns, salas de exposições, pavilhões, etc.

	<b>IP 65</b>	<b>IK 10</b>					<b>AC 100V 240V</b>
<b>Hz</b>							<b>CRI &gt;80</b>
<b>3000K</b>		<b>4000K</b>		<b>5000K</b>		<b>120°</b>	<b>DRIVER INCORPORADO</b>

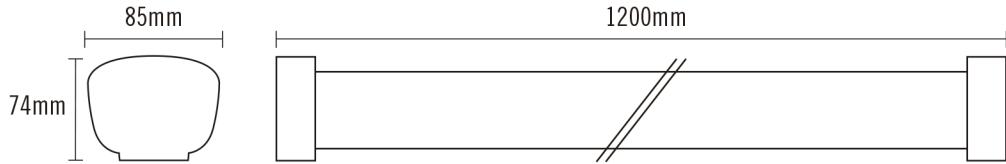
Polar intensity diagram  
-- PEI 01050



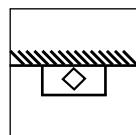


# PRO 40W

ID. PEI01040

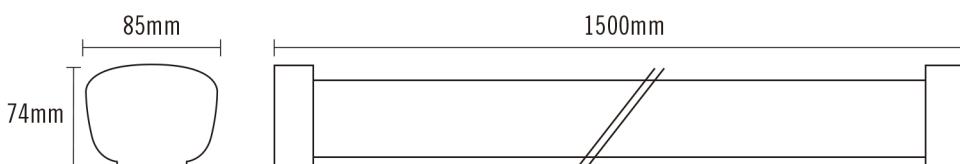


ID	EAN-13	W	CCT	lm	Ba°
PEI01040-4830N	8436549150463	40W	3000K	4900	120°
PEI01040-4840N	8436549150470	40W	4000K	5100	120°
PEI01040-4850N	8436549150487	40W	5000K	5300	120°

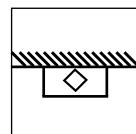
lm  
5300


# PRO 50W

ID. PEI01050



ID	EAN-13	W	CCT	lm	Ba°
PEI01050-5830N	8436549150494	50W	3000K	6100	120°
PEI01050-5840N	8436549150500	50W	4000K	6300	120°
PEI01050-5850N	8436549150517	50W	5000K	6500	120°

lm  
6500



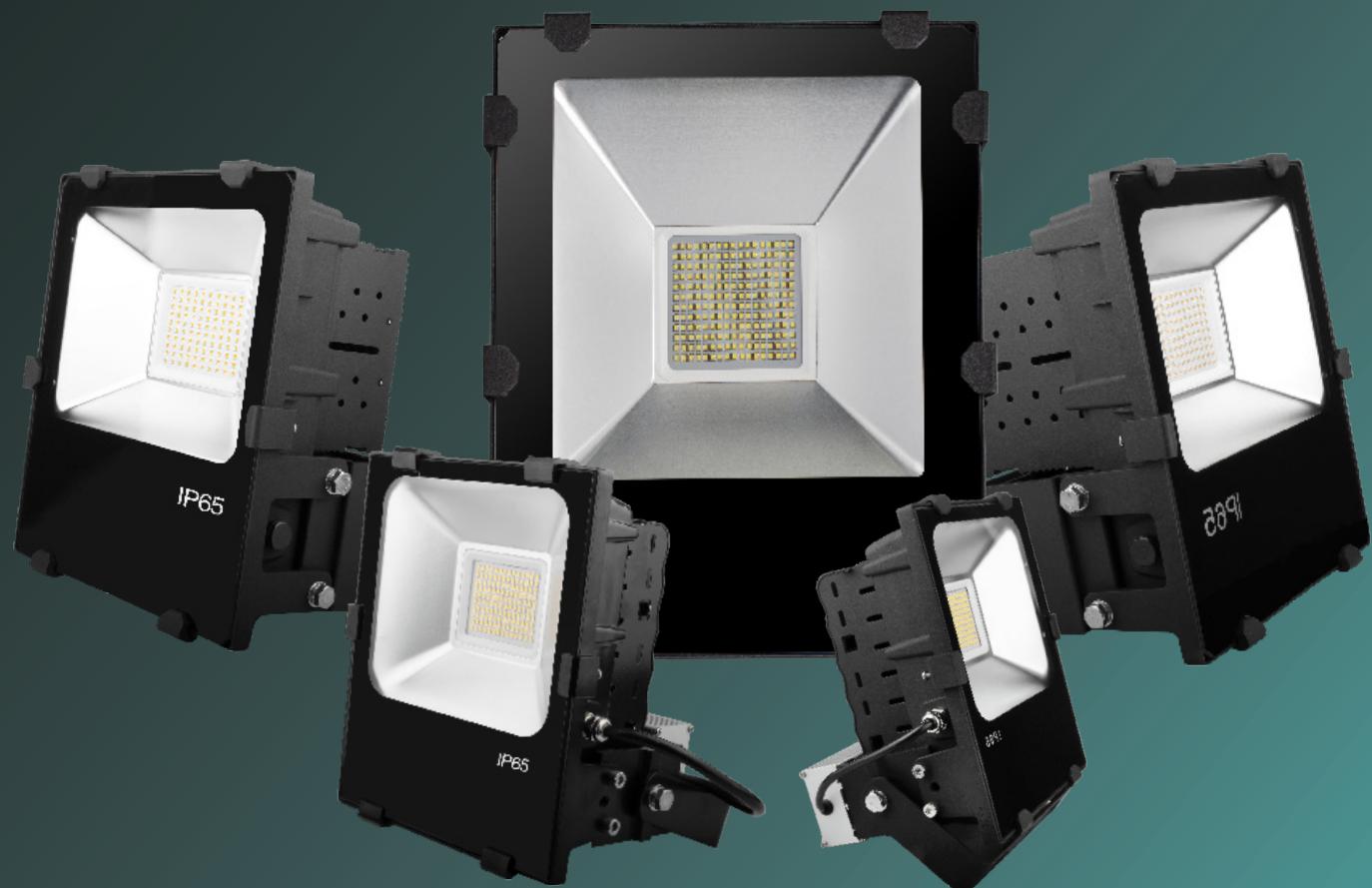
**PRO**



**PROYECTOR**  
**/PROJECTOR /PROJECTOR**

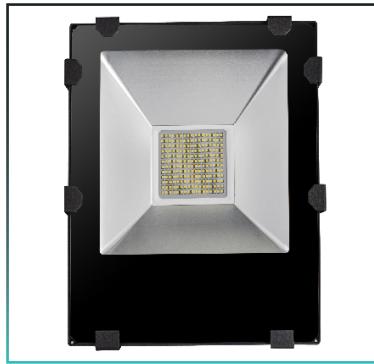


# HADES



CE





 La nueva serie HADES se presenta al mercado como el sucesor del CARONTE, con un re-diseño en la carcasa y los elementos de iluminación, produce una gran mejora contra su predecesor. Aluminio de alta pureza 1060/1070 y disipador tipo aleta, produciendo no más de un 10% de pérdida de luminosidad en 3 años.

El proyector HADES está diseñado con un chip SMD3030, proporcionándole, una alta estabilidad y calidad, y permitiéndole llegar hasta los 120 lm/W, el diseño del disipador y el resto del equipo son a prueba de agua y polvo y una película protectora previene el empañamiento del vidrio templado con alta transmisión lumínica que incorpora.

Su estructura compacta, su fácil instalación y mantenimiento y el resto de características que completan al HADES, como su distribución lumínica uniforme o el tratamiento superficial para exteriores, lo convierten en un equipo valido para zonas como gimnasios, aeropuertos, muelles, tableros publicitarios, obras de protección históricas, etc.

 The new HADES series is the successor of CARONTE. Its casing and lighting elements are significant improvements on its predecessor. Its high purity aluminum 1060/1070 and fin-type dissipator, means that it loses no more than 10% brightness over 3 years.

The HADES projector is designed with an SMD3030 chip, which provides high stability and quality and allows it to attain up to 120 lm / W. The dissipator and the rest of the equipment are waterproof and dustproof and a protective film prevents fogging of tempered glass and incorporates high light transmission.

Its compact structure, easy installation and maintenance and the other features that complete HADES, such as its uniform light distribution or surface treatment for external use, make it a suitable for areas such as gyms, airports, docks, advertising boards and protection of historical works.

 A nova série HADES é apresentada ao mercado como sucessora da CARONTE, com um novo design da carcaça e dos elementos de iluminação, produzindo uma grande melhoria em relação à sua antecessora. Alumínio de alta pureza 1060/1070 e dissipador tipo aleta, produzindo não mais do que 10% de perda de luminosidade em três anos.

O projetor de HADES foi concebido com um chip SMD3030, fornecendo-lhe alta estabilidade e qualidade e permitindo-lhe chegar até aos 120 lm/W. O design do dissipador de calor e o resto da equipamento são à prova de água e poeiras e uma película protetora impede o embaciamento do vidro temperado com alta transmissão de luz que inclui.

A sua estrutura compacta, a sua fácil instalação e manutenção e as outras características que completam o HADES, como a sua distribuição uniforme de luz ou o tratamento de superfície para uso externo, fazem dele um equipamento válido para áreas como ginásios, aeroportos, docas, painéis publicitários, obras de proteção histórica, etc.

IP  
66IK  
08

85% RH



50ms

0-100%



°C Tr

-20°

+40°

AC

100V

277V

Hz

50/60



40.000h



0,5m



AL

ABS

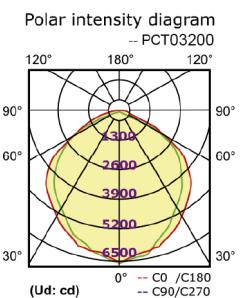
GLASS

CRI  
70

3000K \*

4000K \*

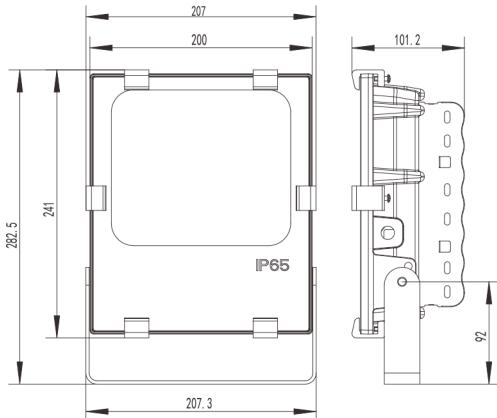
5000K

DRIVER  
INCORPORADO

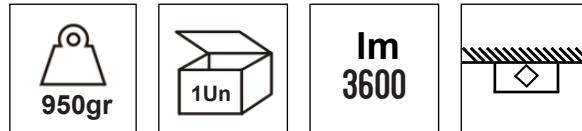


## HADES 30W

ID. PCT03030

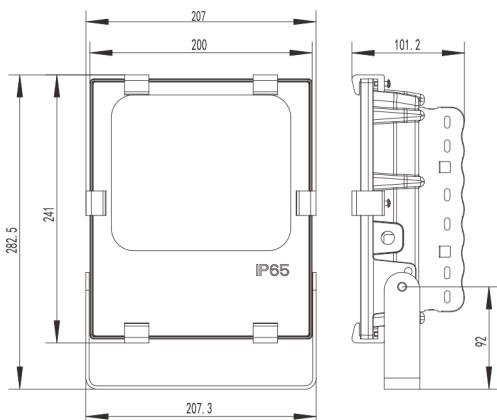


ID	EAN-13	W	CCT	Im	Ba°
PCT03030/BK830	8436549153907	30W	3000K	3200	120°
PCT03030/BK840	8436549153914	30W	4000K	3400	120°
PCT03030/BK850	8436549153921	30W	5000K	3600	120°

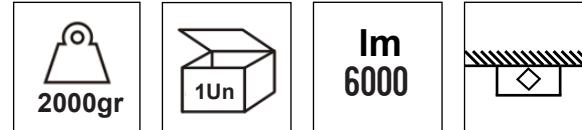


## HADES 50W

ID. PCT03050



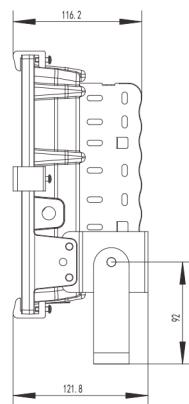
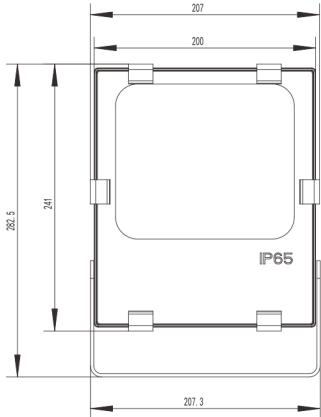
ID	EAN-13	W	CCT	Im	Ba°
PCT03050/BK830	8436549153938	50W	3000K	5400	120°
PCT03050/BK840	8436549155062	50W	4000K	5700	120°
PCT03050/BK850	8436549155079	50W	5000K	6000	120°



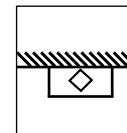
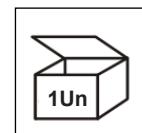


## HADES 70W

ID. PCT03070

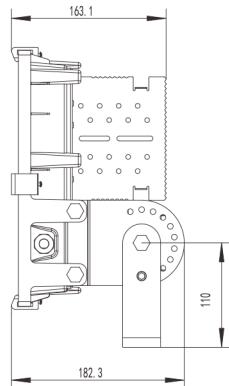
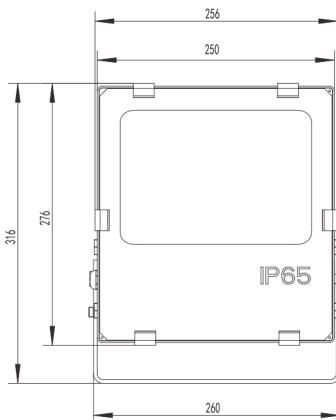


ID	EAN-13	W	CCT	Im	Ba°
PCT03070/BK830	8436549155086	70W	3000K	7500	120°
PCT03070/BK840	8436549156526	70W	4000K	8000	120°
PCT03070/BK850	8436549156533	70W	5000K	8400	120°

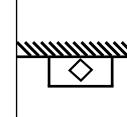
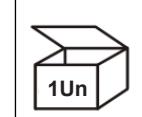


## HADES 100W

ID. PCT03100



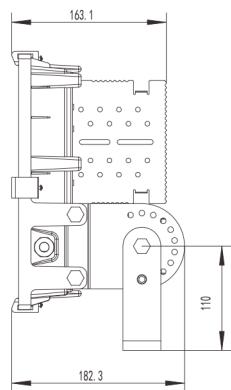
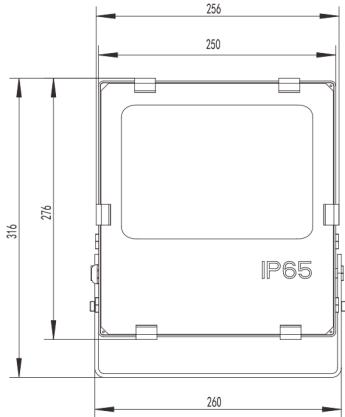
ID	EAN-13	W	CCT	Im	Ba°
PCT03100/BK830	8436549156540	100W	3000K	10700	120°
PCT03100/BK840	8436549156557	100W	4000K	11400	120°
PCT03100/BK850	8436549156564	100W	5000K	12000	120°



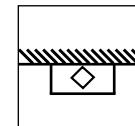


## HADES 120W

ID. PCT03120

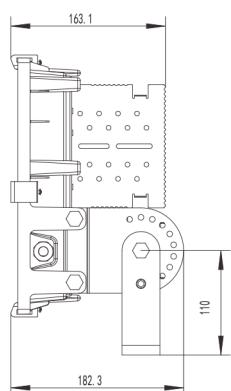
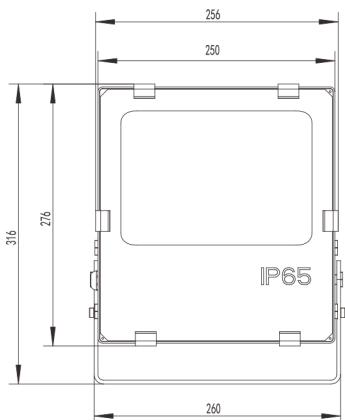


ID	EAN-13	W	CCT	lm	Ba°
PCT03120/BK830	8436549156571	120W	3000K	12900	120°
PCT03120/BK840	8436549156588	120W	4000K	13700	120°
PCT03120/BK850	8436549156595	120W	5000K	14400	120°

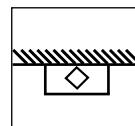
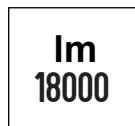
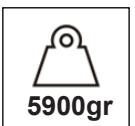


## HADES 150W

ID. PCT03150



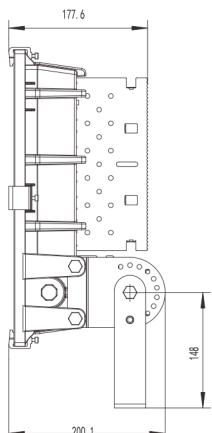
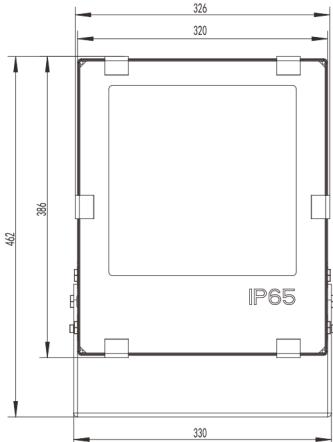
ID	EAN-13	W	CCT	lm	Ba°
PCT03150/BK830	8436549156601	150W	3000K	16000	120°
PCT03150/BK840	8436549156618	150W	4000K	17100	120°
PCT03150/BK850	8436549156625	150W	5000K	18000	120°



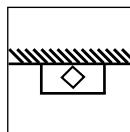
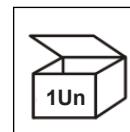


# HADES 200W

ID. PCT03200



ID	EAN-13	W	CCT	Im	Ba°
PCT03200/BK830	8436549156632	200W	3000K	21400	120°
PCT03200/BK840	8436549156649	200W	4000K	22800	120°
PCT03200/BK850	8436549156656	200W	5000K	24000	120°



HADES



SUDOKU  
/ SUDOKU / SUDOKU



# ENFOC / MACRO



CE





 Presentamos la nueva serie 5 de SUDOKU, fabricado en aluminio inyectado a presión ADC 12, con una estructura sólida y una increíble disipación del calor tornillería inoxidable 316 A4 y una pintura especial anticorrosión, la serie 5 de sudoku dispone de múltiples opciones de lente para adaptarse a cualquier necesidad. Además de ser modular desde el primer modulo base a la unión de varios, tanto en serie como en paralelo. Sus 16/20 chips SMD 5050 y sus fuentes de alimentación testadas, nos dan una salida de 150lm/W además hemos diseñado ópticas desde 25° a 90° para incluirlas a cualquier nivel y no perder luminosidad en ninguno de los proyectos.

El nuevo SUDOKU cambia el anclaje óptico y mejora en gran medida su protección IP, garantizando su funcionamiento bajo cualquier condición medioambiental, disponemos de la solución para cualquier elemento deportivo así como túneles, exterior, puertos, etc.

 We are proud to introduce the new SUDOKU Series 5, manufactured in ADC 12 diecast aluminum, with a solid structure and an incredible 316 A4 heat dissipation stainless screws and special anti-corrosion paint. The SUDOKU Series 5 has multiple lens options to satisfy every requirement. In addition, it is modular from 1 base module to the union of several, both in series and in parallel.

Its 16/20 SMD 5050 chips and tested power supplies provide an output of 150lm / W. The optics have been designed from 25° to 90° to be included at any level and not lose luminosity in any of the projects.

The new SUDOKU has changed optical anchoring and greatly improved its IP protection, which ensures its operation under any environmental condition. Here we have the solution for any sporting facility as well as for tunnels, external elements and ports.

 Apresentamos a nova série 5 da SUDOKU, fabricada em alumínio injetado sob pressão ADC 12, com uma estrutura sólida e uma incrível dissipação de calor, parafusos inox 316 A4 e uma pintura anticorrosiva especial. A série 5 de sudoku possui múltiplas opções de lentes para adaptação a qualquer necessidade. Além disso é modular, desde 1 módulo base à união de vários, tanto em série como em paralelo.

Os seus 16/20 chips SMD 5050 e as suas fontes de alimentação testadas dão uma saída de 150 lm/W. Além disso foram desenhadas ópticas de 25 ° a 90 ° para serem incluídas em qualquer nível e sem perder a luminosidade em nenhum dos projetos.

O novo SUDOKU muda a fixação ótica e melhora muito a sua proteção IP, garantindo a operação sob qualquer condição ambiental. Temos a solução para qualquer elemento desportivo, bem como de túneis, elementos externos, portos, etc.

A série STAR da AOD oferece a solução urbana definitiva, com o seu corpo feito de alumínio injetado a alta pressão e o seu vidro temperado de 4 mm, que lhe dá uma proteção padrão IK09 de série.



IP  
67

IK  
09



85%RH

50ms  
0-100%



°C Tr  
-20°  
+40°

AC  
220V  
240V

Hz  
50/60

60.000h



CRI  
>80

-  
0-10V  
+  
-  
PWM  
+



3000K  
\*

4000K  
\*

5700K

25°

40°

60°

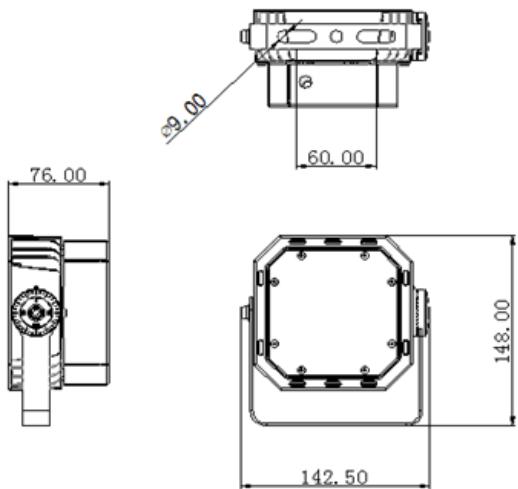
90°





## ENFOC 40W

ID. SDKS501

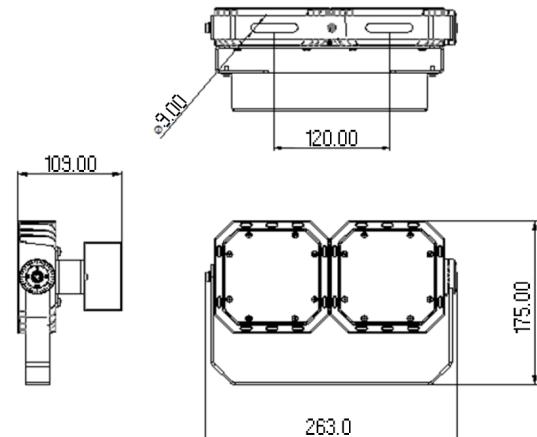


ID	EAN-13	W	CCT	Im	Ba°
SDKS501/90740-E	8436549153075	40W	4000K	6000	90°
SDKS501/90757-E	8436549153846	40W	5700K	6300	90°
SDKS501/S2740-E	8436549153853	40W	4000K	6000	ASIMETRICA

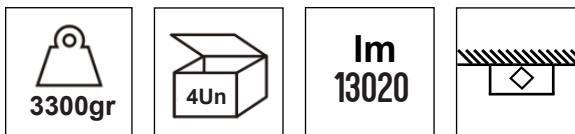


## ENFOC 80W

ID. SDKS502



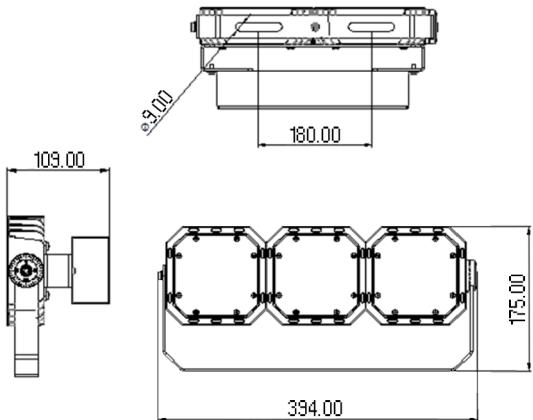
ID	EAN-13	W	CCT	Im	Ba°
SDKS502/60730-E	8436549152191	80W	3000K	11780	60°
SDKS502/90730-E	8436549152207	80W	3000K	11400	90°
SDKS502/60740-E	8436549152214	80W	4000K	12400	60°
SDKS502/90740-E	8436549152221	80W	4000K	12000	90°
SDKS502/60757-E	8436549152238	80W	5700K	13020	60°
SDKS502/90757-E	8436549152245	80W	5700K	12400	90°
SDKS502/S2740-E	8436549152252	80W	4000K	12000	ASIMETRICA



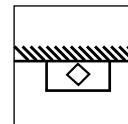


## ENFOC 120W

ID. SDKS503

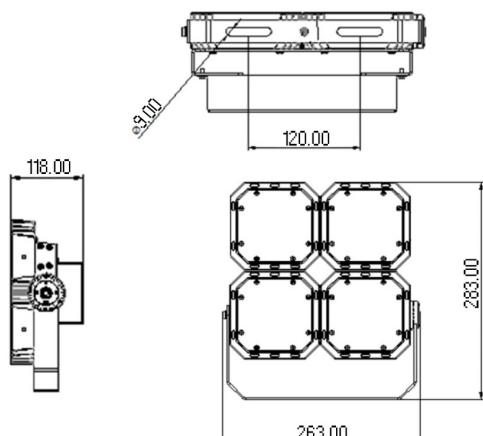


ID	EAN-13	W	CCT	lm	Ba°
SDKS503/60730-E	8436549152269	120W	3000K	17670	60°
SDKS503/90730-E	8436549152276	120W	3000K	17100	90°
SDKS503/60740-E	8436549152283	120W	4000K	18600	60°
SDKS503/90740-E	8436549152290	120W	4000K	18000	90°
SDKS503/60757-E	8436549152306	120W	5700K	19530	60°
SDKS503/90757-E	8436549152313	120W	5700K	18900	90°
SDKS503/S2740-E	8436549152320	120W	4000K	18000	ASIMETRICA

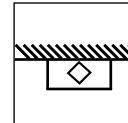
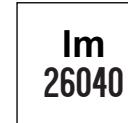
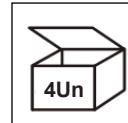


## ENFOC 160W

ID. SDKS504



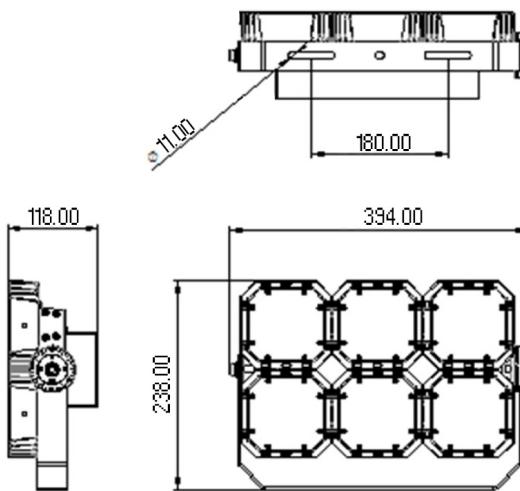
ID	EAN-13	W	CCT	lm	Ba°
SDKS504/60730-E	8436549152337	160W	3000K	23560	60°
SDKS504/90730-E	8436549152344	160W	3000K	22800	90°
SDKS504/60740-E	8436549152351	160W	4000K	24800	60°
SDKS504/90740-E	8436549152368	160W	4000K	24000	90°
SDKS504/60757-E	8436549152375	160W	5700K	26040	60°
SDKS504/90757-E	8436549152382	160W	5700K	25200	90°
SDKS504/S2740-E	8436549152399	160W	4000K	24000	ASIMETRICA



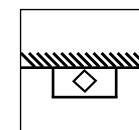
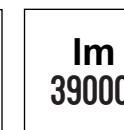
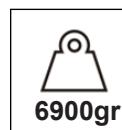


## ENFOC 240W

ID. SDKS506

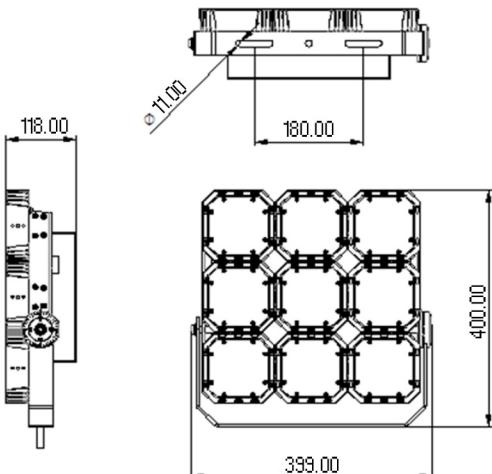


ID	EAN-13	W	CCT	Im	Ba°
SDKS506/40740-E	8436549152405	240W	4000K	37200	40°
SDKS506/60740-E	8436549152412	240W	4000K	36270	60°
SDKS506/40757-E	8436549152429	240W	5700K	39000	40°
SDKS506/60757-E	8436549152436	240W	5700K	38130	60°
SDKS506/S2740-E	8436549152443	240W	4000K	36270	ASIMETRICA

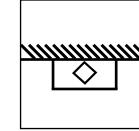


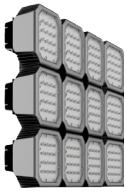
## ENFOC 360W

ID. SDKS509



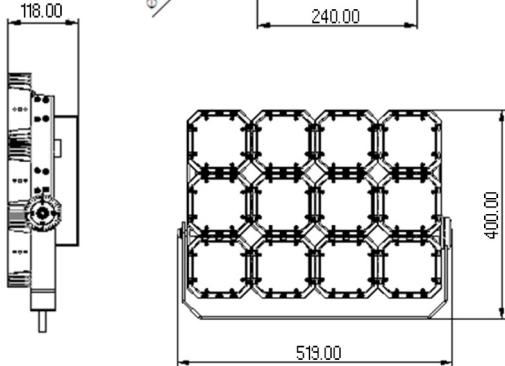
ID	EAN-13	W	CCT	Im	Ba°
SDKS509/25740-E	8436549152450	360W	4000K	53568	25°
SDKS509/40740-E	8436549152474	360W	4000K	54684	40°
SDKS509/60740-E	8436549152481	360W	4000K	55800	60°
SDKS509/25757-E	8436549152504	360W	5700K	56736	25°
SDKS509/40757-E	8436549152511	360W	5700K	57475	40°
SDKS509/60757-E	8436549152726	360W	5700K	58600	60°



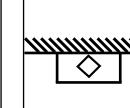
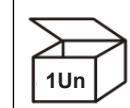


## MACRO 480W

ID. SDKS512

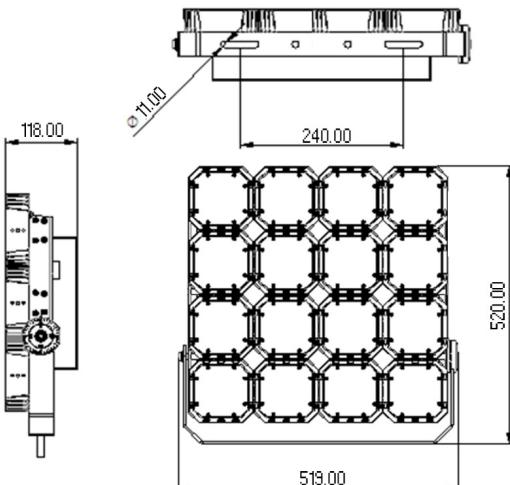


ID	EAN-13	W	CCT	Im	Ba°
SDKS512/25740-M	8436549152733	480W	4000K	70680	25°
SDKS512/40740-M	8436549152740	480W	4000K	72540	40°
SDKS512/60740-M	8436549152757	480W	4000K	73680	60°
SDKS512/25757-M	8436549152764	480W	5700K	74400	25°
SDKS512/40757-M	8436549152771	480W	5700K	76257	40°
SDKS512/60757-M	8436549152788	480W	5700K	78120	60°

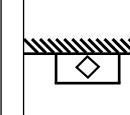
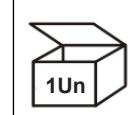


## MACRO 640W

ID. SDKS516



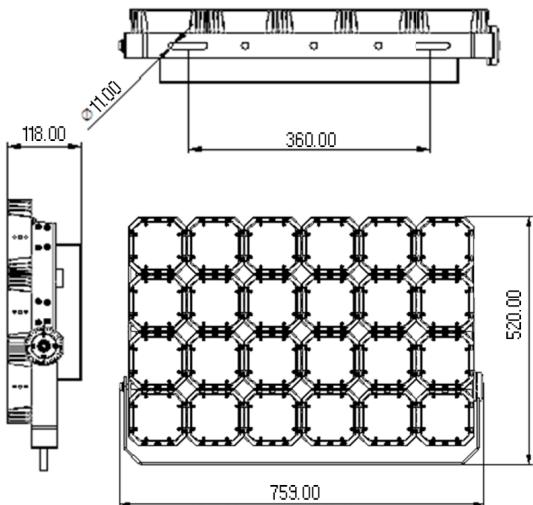
ID	EAN-13	W	CCT	Im	Ba°
SDKS516/25740-M	8436549152795	640W	4000K	94240	25°
SDKS516/40740-M	8436549152801	640W	4000K	96717	40°
SDKS516/60740-M	8436549152818	640W	4000K	98240	60°
SDKS516/25757-M	8436549152825	640W	5700K	99200	25°
SDKS516/40757-M	8436549152832	640W	5700K	101600	40°
SDKS516/60757-M	8436549152849	640W	5700K	107360	60°



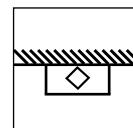
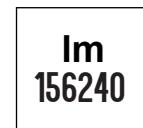
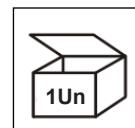


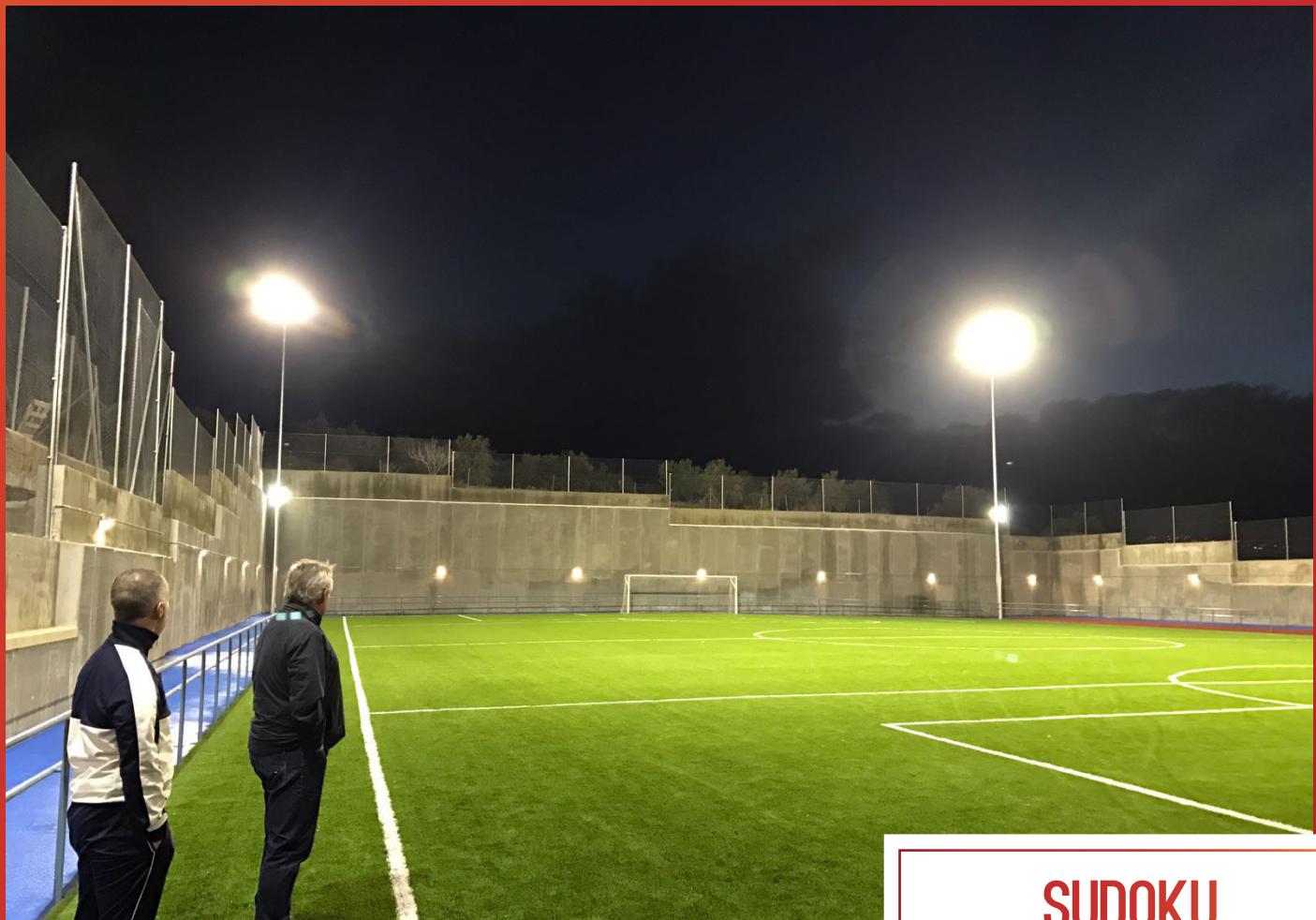
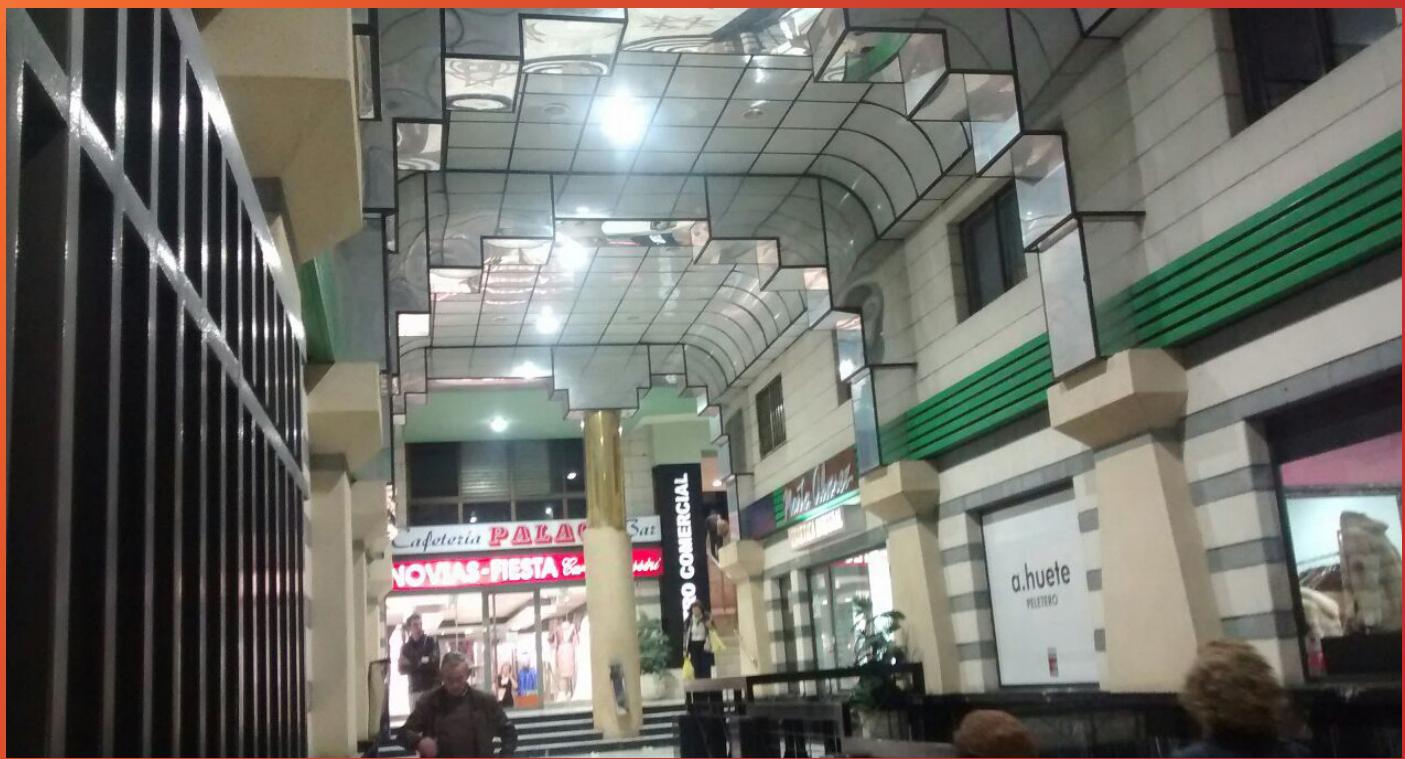
# MACRO 960W

ID. SDKS524



ID	EAN-13	W	CCT	Im	Ba°
SDKS524/25740-M	8436549152856	960W	4000K	141360	25°
SDKS524/40740-M	8436549152863	960W	4000K	145075	40°
SDKS524/60740-M	8436549152870	960W	4000K	147360	60°
SDKS524/25757-M	8436549152887	960W	5700K	148800	25°
SDKS524/40757-M	8436549152894	960W	5700K	152400	40°
SDKS524/60757-M	8436549153020	960W	5700K	156240	60°





SUDOKU

# SUDOKU PARA ILUMINACIÓN DEPORTIVA

/ SUDOKU FOR SPORT ILLUMINATION / SUDOKU ILUMINAÇÃO ESPORTIVA







**VIAL**  
**/ VIAL / VIAL**



STAR



CE





 La serie STAR de AOD ofrece la solución urbana definitiva, con su cuerpo fabricado en aluminio inyectado a alta presión y su vidrio templado de 4mm le dan una protección IK09 de serie y la óptica es independiente a la iluminaria.

La serie STAR está preparada para funcionar tanto en clase I como II y a multi-nivel con temporizador programable.

Su chip SMD 3030 2D le da una salida de 140lm/W, dispone de un protector contra sobre tensiones 10kVA y una fuente de alimentación regulable que le otorga 5 años de garantía y su posible ampliación.

Todas las características y su flexibilidad para las mejoras, la convierten en el equipo ideal para iluminar zonas públicas, desde 30W hasta 120W, y en zonas como calles peatonales, carreteras, urbanizaciones, etc.

 AOD's STAR series provides the ultimate urban solution. Its high pressure injected aluminum body and its 4mm tempered glass give IK09 standard protection and the optics it's independent to the luminaire.

The STAR series is designed to operate in both class I and II and at multi-level with a programmable timer.

Its SMD 3030 2D chip gives an output of 140lm / W. It has 10kVA overvoltage protection and an adjustable power supply, which gives it a 5 year warranty that may be extended.

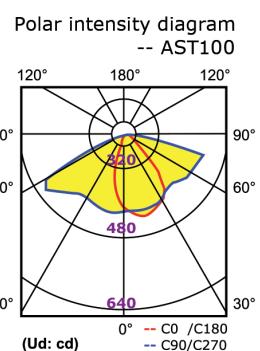
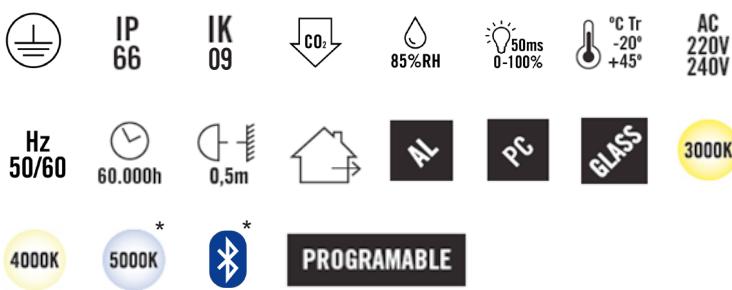
Its features and flexibility to make improvements make it the ideal equipment to illuminate public areas, from 30W to 120W, and in areas such as pedestrian streets, roads and residential areas.

 A série STAR da AOD oferece a solução urbana definitiva, com o seu corpo feito de alumínio injetado a alta pressão e o seu vidro temperado de 4 mm, que lhe dá uma proteção padrão IK09 de série e a óptica é independente da luminária.

A série STAR está pronta para trabalhar em classe I como II e em mult-nível com temporizador programável.

O seu chip SMD 3030 2D dá-lhe uma saída de 140 lm/W, tem um protetor de sobretensão de 10 kVA e uma fonte de alimentação ajustável que oferece uma garantia de 5 anos e possível extensão.

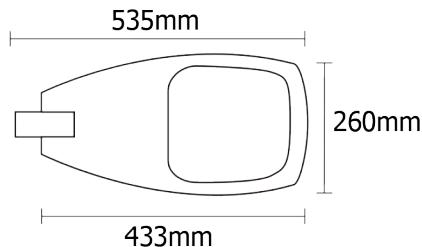
Todas as características e a sua flexibilidade para as melhorias tornam-no o equipamento ideal para iluminar áreas públicas, de 30 W a 120 W, e em áreas como ruas pedonais, estradas, urbanizações, etc.



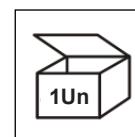
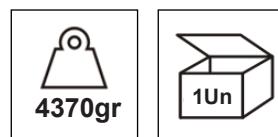
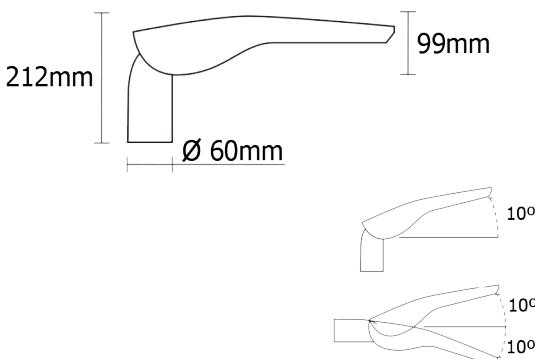


## STAR 30W

ID. AST030

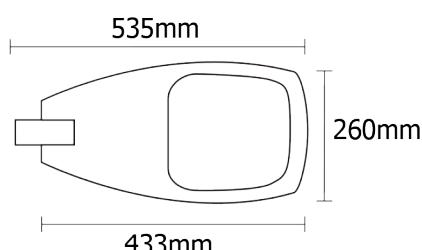


ID	EAN-13	W	CCT	lm	Ba°
AST030-S718T2C110KVA	8436549150050	30W	1800K	3750	ASIMETRICA
AST030-S730T2C110KVA	8436549150739	30W	3000K	3950	ASIMETRICA
AST030-S740T2C110KVA	8436549150753	30W	4000K	4100	ASIMETRICA
AST030-S750T2C110KVA	8436549150777	30W	5000K	4200	ASIMETRICA

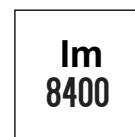
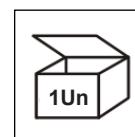
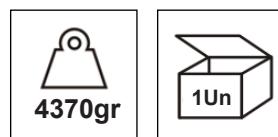
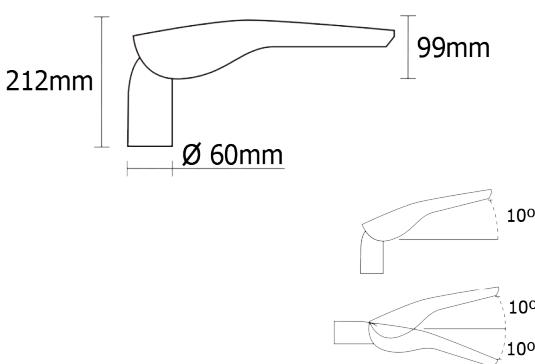


## STAR 60W

ID. AST060



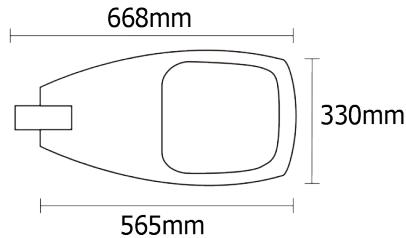
ID	EAN-13	W	CCT	lm	Ba°
AST060-S718T2C110KVA	8436549150043	60W	1800K	7500	ASIMETRICA
AST060-S730T2C110KVA	8436549150791	60W	3000K	7900	ASIMETRICA
AST060-S740T2C110KVA	8436549150807	60W	4000K	8150	ASIMETRICA
AST060-S750T2C110KVA	8436549153341	60W	5000K	8400	ASIMETRICA



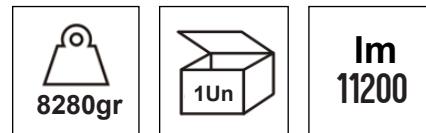
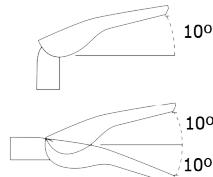
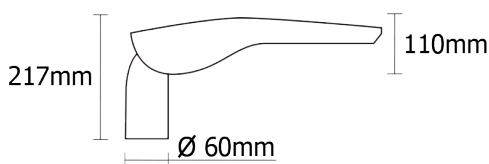


## STAR 80W

ID. AST080

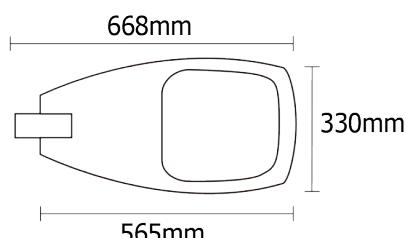


ID	EAN-13	W	CCT	Im	Ba°
AST080-S730T2C110KVA	8436549153389	80W	3000K	10550	ASIMETRICA
AST080-S740T2C110KVA	8436549153396	80W	4000K	10900	ASIMETRICA
AST080-S750T2C110KVA	8436549153402	80W	5000K	11200	ASIMETRICA

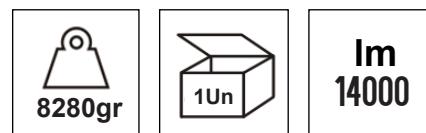
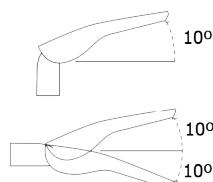
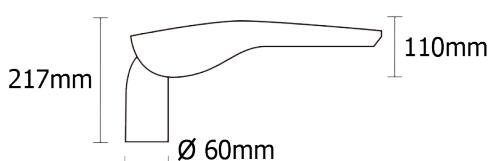


## STAR 100W

ID. AST100



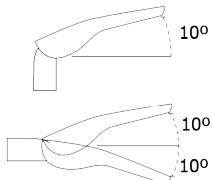
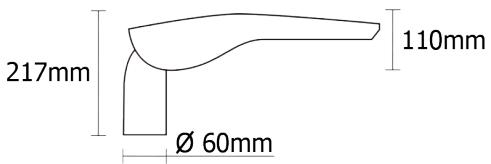
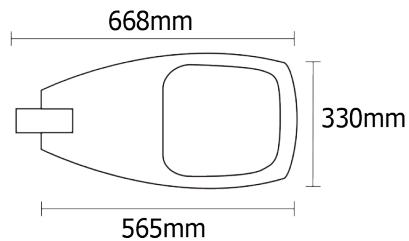
ID	EAN-13	W	CCT	Im	Ba°
AST100-S730T2C110KVA	8436549153440	100W	3000K	13200	ASIMETRICA
AST100-S740T2C110KVA	8436549153457	100W	4000K	13600	ASIMETRICA
AST100-S750T2C110KVA	8436549153464	100W	5000K	14000	ASIMETRICA



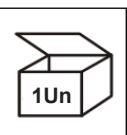


# STAR 120W

ID. AST120



ID	EAN-13	W	CCT	lm	Ba°
AST120-S730T2C110KVA	8436549153501	120W	3000K	15800	ASIMETRICA
AST120-S740T2C110KVA	8436549150821	120W	4000K	16300	ASIMETRICA
AST120-S750T2C110KVA	8436549150845	120W	5000K	16800	ASIMETRICA





**STAR**

# ORNAMENTAL



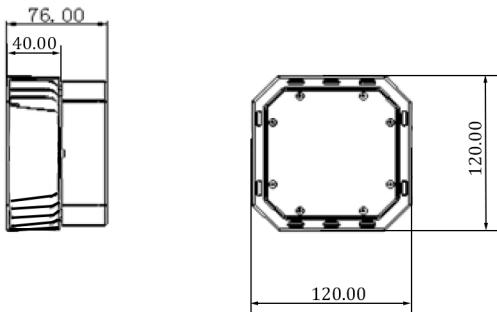
CE





# SOURCE 32W

ID. SDK501



ID	EAN-13	W	CCT	Im	Ba°
SDKS501/S2722	8436549153037	32W	2200K	4560	ASIMETRICA
SDKS501/S2727	8436549153044	32W	2700K	4632	ASIMETRICA
SDKS501/S2730	8436549153051	32W	3000K	4704	ASIMETRICA
SDKS501/S2740	8436549153068	32W	4000K	4800	ASIMETRICA



IP  
67

IK  
09



AC  
200V  
240V



Hz  
50/60



60.000h



0,5m



AL



PC



2200K



2700K



3000K



4000K



\*

PROGRAMABLE

## VILLA TOWN COMPLETE

ID	EAN-13	W	CCT	Ba°
AL-ALM/SDK/NSS/PNC	8436549156663	40W	****	ASIMETRICA



## PALACIO PALACE COMPLETE

ID	EAN-13	W	CCT	Ba°
AL-PLC/SDK/NSS/PNC	8436549156700	40W	****	ASIMETRICA

## PESCADOR FISHERMAN COMPLETE

ID	EAN-13	W	CCT	Ba°
AL-PES/SDK/NSS/PNC	8436549156717	40W	****	ASIMETRICA





**BRITANIA RÓTULA GIRATORIA**  
BRITANIA COMPLETE ROTATORY

ID	EAN-13	W	CCT	Ba°
AL-BRIOT/SDK/NSS/PNC	8436549156694	40W	****	ASIMETRICA

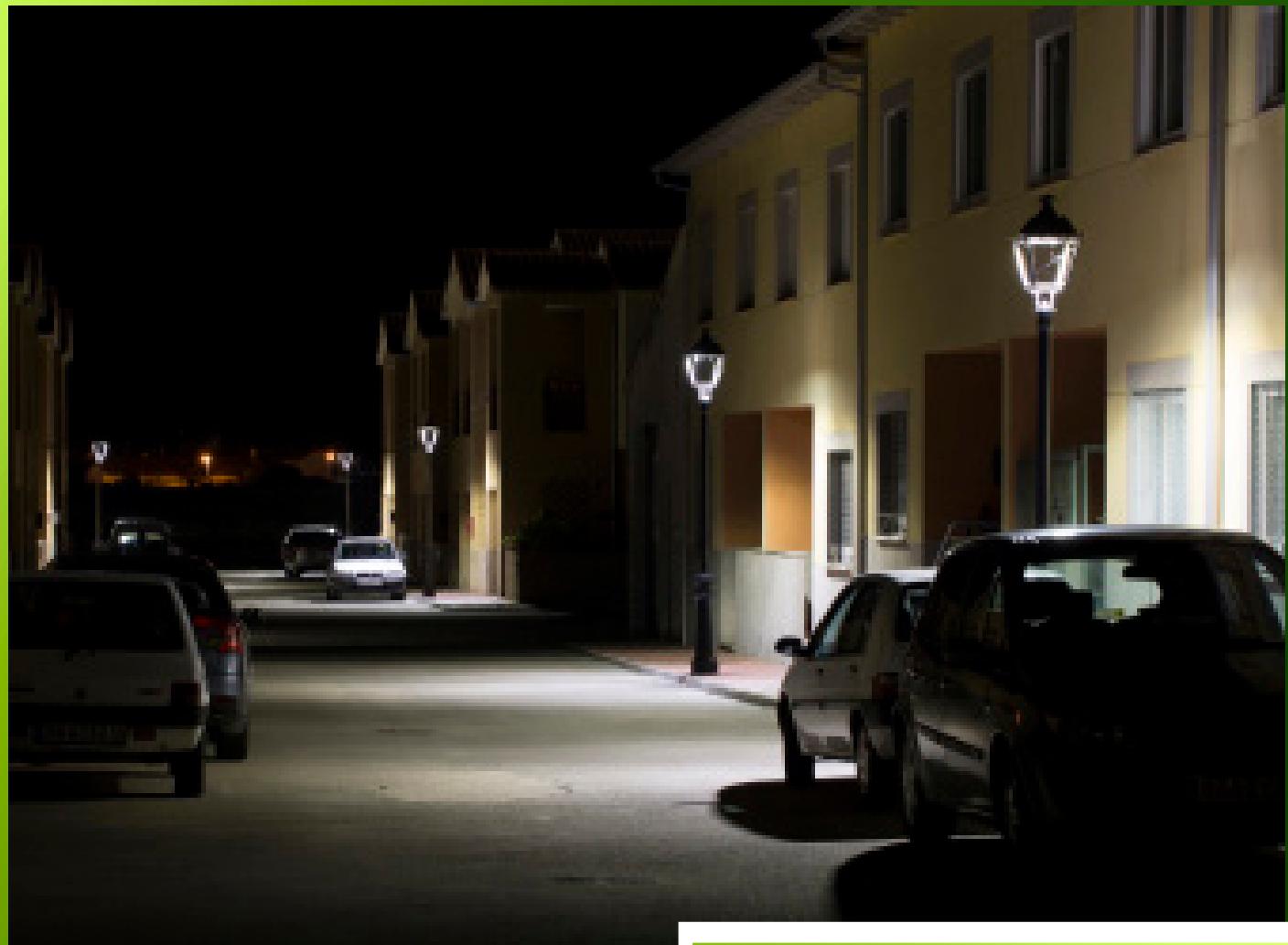
**BRITANIA**  
BRITANIA COMPLETE

ID	EAN-13	W	CCT	Ba°
AL-BRI/SDK/NSS/PNC	8436549156670	40W	****	ASIMETRICA



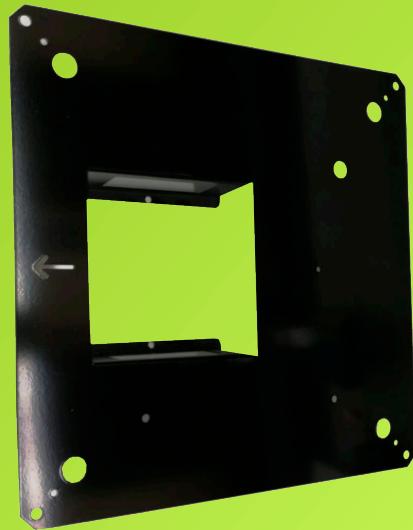
**BRITANIA LIRA**  
BRITANIA LIRA COMPLETE

ID	EAN-13	W	CCT	Ba°
AL-BRILI/SDK/NSS/PNC	8436549156687	40W	****	ASIMETRICA



ORNAMENTAL

## ACCESORIOS / ADDITIONAL FEATURES / CARACTERÍSTICAS ADICIONAIS





**VILLA**  
**TOWN**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-ALM	8436549150418	VILLA / TOWN

**BRITANIA**  
**BRITANIA**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-BRI	8436549154997	BRITANIA / BRITANIA



**BRITANIA LIRA**  
**BRITANIA ARM**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-BRILI	8436549155000	BRITANIA LIRA / BRITANIA ARM

**BRITANIA RÓTULA GIRATORIA**  
**BRITANIA ROTATING SWIVEL**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-BRIROT	8436549155017	MODELO BRITANIA RÓTULA GIRATORIA / MODEL BRITANIA ROTATING SWIVEL



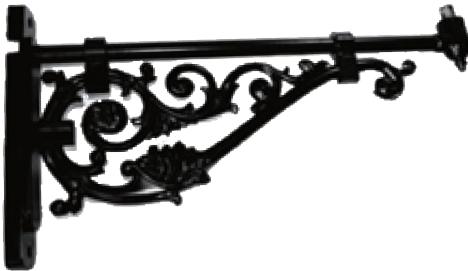
**PALACIO**  
**PALACE**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-PLC	8436549155048	PALACIO / PALACE

**PESCADOR**  
**FISHERMAN**

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-PES	8436549155055	PESCADOR / FISHERMAN



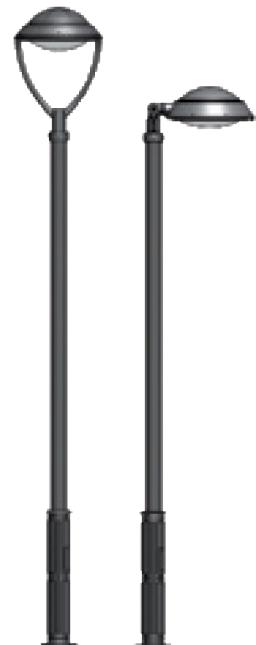


## BRAZO DECORATIVO LUMINARIA DECORATIVE ARM LUMINAIRE

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-BRZ.01	8436549155024	BRAZO DECORATIVO LUMINARIA EXTERIOR NEGRO / DECORATIVE ARM LUMINAIRE

## COLUMNA COLUMN

ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-CLM.01	8436549155031	COLUMNA CILÍNDRICA NEGRA 3,20 METROS / CYLINDRIC COLUMN BLACK 3.20 METERS
AL-CLM.02	8436549153891	COLUMNA TROCO. EUR. GALVANIZADA 6 METROS / TRONCO. EUR. COLUMN GALVANIZED 6 METERS



## PROTECTOR CONTRA SOBRETENSIONES PROTECTION AGAINST OVERVOLTAGE

ID	EAN	DESCRIPCIÓN / DESCRIPTION
NSS-10/230-C12-P	8436549156724	PROTECTOR CONTRA SOBRETENSIONES 10kV/10kA / PROTECTION AGAINST OVERVOLTAGE 10kV/10kA

## PLANCHAS ORNAMENTALES A MEDIDA CUSTOM ORNAMENTAL IRON

ID	EAN	DESCRIPCIÓN / DESCRIPTION
PNC-STD.01	*****	PLANCHAS ORNAMENTALES A MEDIDA / CUSTOM ORNAMENTAL IRON







SOLAR



CE





Tal como la sub-familia indica la serie SOLAR es la gama de productos perfecta para la iluminación a través de la energía solar. Dispone de las soluciones en JUNIOR, SEMI SENIOR Y SENIOR. Fabricadas en acero galvanizado pintado RAL 7035 siendo opcional su fabricación en acero inoxidable AISI 304, 316 y cataforesis.

Equipada con un PCB LED, módulos fotovoltaicos HIT, baterías de GEL con opción a litio o cristal, reguladores de carga programables por ciclos, IK09, IP66 y las ópticas asimétricas extensivas. Disponibles en temperaturas ámbar, 3000K, 4000K y 5000K.

Con su eficiencia nominal de 140m/W y el resto de sus características la convierten en la solución ideal para zonas urbanas, rurales y peatonales, camping, playa, urbanizaciones, etc.



As the name indicates the SOLAR series offers the perfect product range for lighting using solar energy. JUNIOR, SEMI SENIOR AND SENIOR solutions are available. Manufactured in painted RAL 7035 galvanized steel, as an option they may be made in AISI 304, 316 stainless steel treated by cataphoresis.

Equipped with a LED PCB, HIT photovoltaic modules, GEL batteries with lithium or crystal options available, programmable load regulators by cycles, IK09, IP66 and extensive asymmetrical optics. Available in 3000K, 4000K and 5000K amber temperatures.

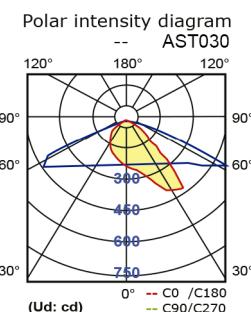
Its nominal efficiency of 140lm/W together with its other characteristics make it the ideal solution for urban, rural and pedestrian areas, campsites, beaches and residential areas.



Tal como a subfamília indica, a série SOLAR, é a gama perfeita de produtos para iluminação por energia solar. Possui soluções em JUNIOR, SEMI SENIOR e SENIOR. Fabricadas em aço galvanizado pintado RAL 7035, está disponível o fabrico em aço inoxidável AISI 304, 316 e cataforese. Equipada com um PCB LED, módulos fotovoltaicos HIT, baterias de GEL com opção de lítio ou vidro, reguladores de carga programáveis por ciclos, IK09, IP66 e extensas óticas assimétricas. Disponível nas temperaturas âmbar, 3000K, 4000K e 5000K.

Com a sua eficiência nominal de 140lm/W e o resto das suas características, torna-se a solução ideal para áreas urbanas, rurais e pedonais, parques de campismo, praias, urbanizações, etc.

	<b>IP 66</b>	<b>IK 09</b>							
<b>Hz</b>	<b>50/60</b>			<b>60.000h</b>		<b>0,5m</b>			
<b>ABS</b>									
				*		*			<b>3 DÍAS AUTONOMÍA</b>

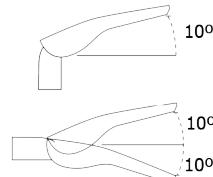
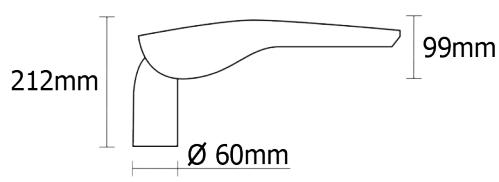
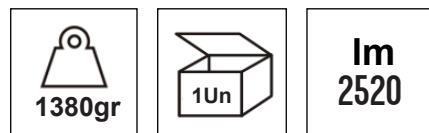
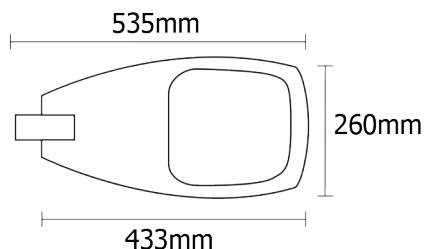




## SOLAR 20W

ID. FGP100B110L20

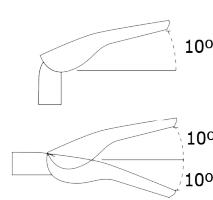
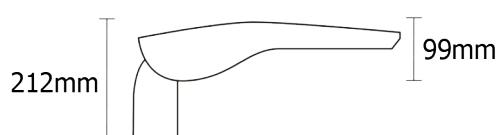
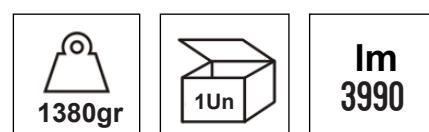
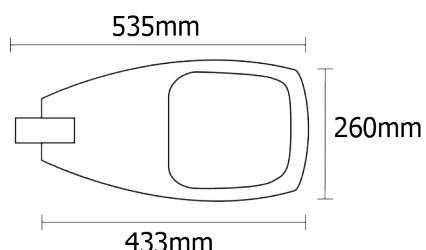
ID	EAN-13	W	CCT	Im	Ba°
FGP100B110L20	8436549153877	20W	*****	2520	ASIMETRICA



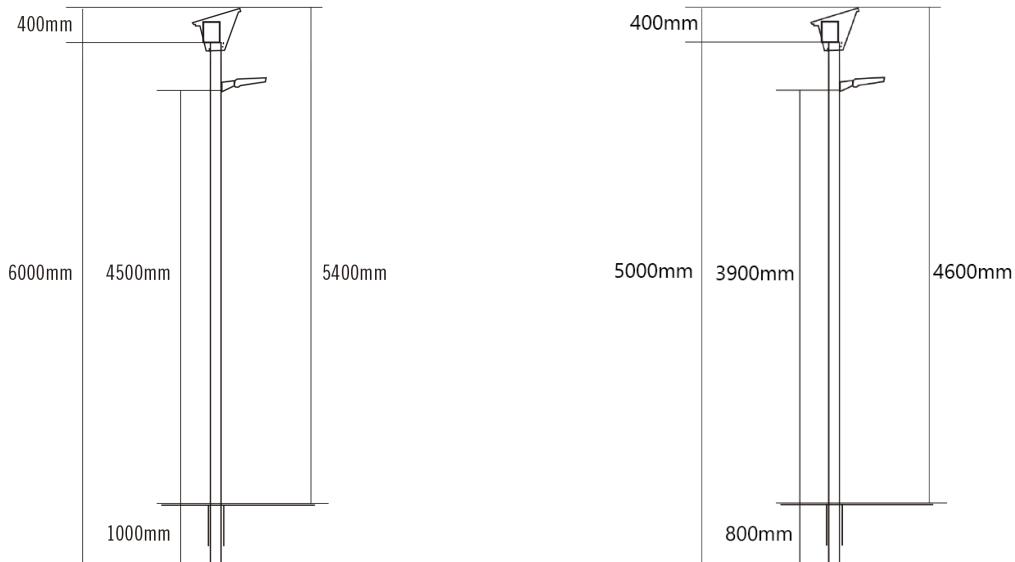
## SOLAR 30W

ID. FGP100B110L30

ID	EAN-13	W	CCT	Im	Ba°
FGP245B200L30	8436549153884	30W	*****	3990	ASIMETRICA



ID	EAN	DESCRIPCIÓN / DESCRIPTION
AL-CLM.03	8436549156809	COLUMNAS CILINDRICAS GALVANIZADAS 5 METROS SOLAR / GALVANIZED CYLINDRICAL COLUMN 5 METERS
AL-CLM.04	8436549157004	COLUMNAS CILINDRICAS GALVANIZADAS 6 METROS SOLAR / GALVANIZED CYLINDRICAL COLUMN 6 METERS
PID-CS-DMX2010-4CHN	8436549156779	REGULADOR SOLAR RC-DOM10 / SOLAR CONTROLLER RC-DOM10
FV.BTR.01	8436549156786	BATERIA SOLAR GEL VICTRON 12V/165 / VICTRON GEL SOLAR BATTERI 12V/165
FV.BTR.02	8436549156762	BATERIA SOLAR GEL VICTRON 24V/245 / VICTRON GEL SOLAR BATTERI 24V/245
FV.SLR.01	8436549156793	PLACA KYOCERA 240W / SOLAR PANEL KYOCERA 240W
FV.SLR.02	8436549152078	PLACA KYOCERA 100W / SOLAR PANEL KYOCERA 100W



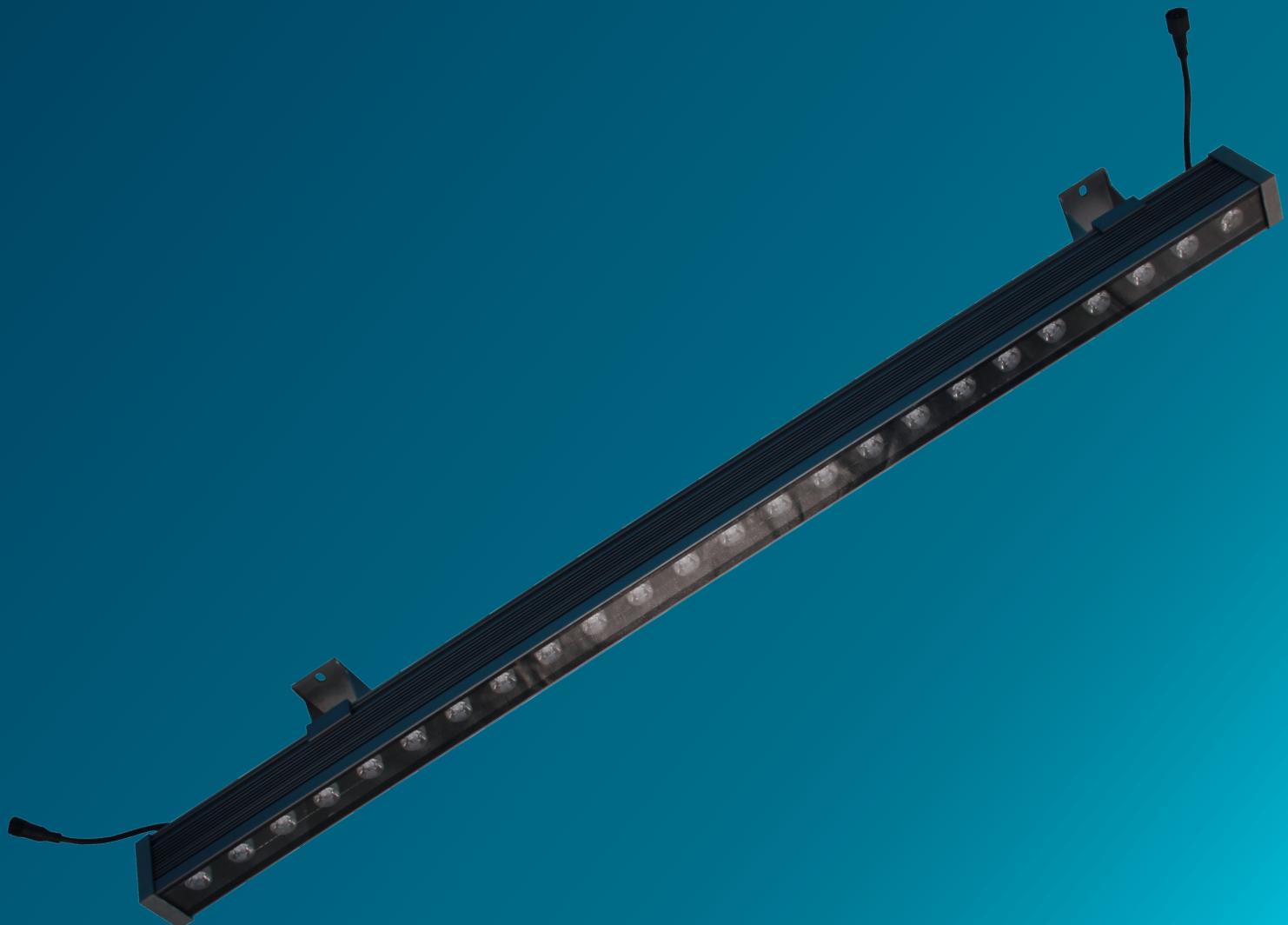
SOLAR



**FACHADA**  
/ FACADE / FACHADA



# WALL-WASHER



CE





 Led's Go Project S.L. introduce la familia fachada y a su producto WALL-WASHER. En los últimos años el bañador de fachada se ha introducido en múltiples lugares, proporcionando, un efecto lumínico fuerte y de gran calidad, fabricado en aleación de aluminio y una cubierta de cristal templado transparente, además de su superficie anodizada y un recubrimiento de polvo de poliéster.

Disponible en diversos colores, el rojo y el azul son los más famosos, sin dejar atrás al RGB con el que podemos iluminar múltiples zonas.

El WALL-WASHER está compuesto por un chip cree de 2W cada uno con el que, según la medida del mismo, llegamos a los 95lm/W y a unos 170Lux a los 6 metros de altura.

 Led's Go Project SL introduces its façade family and its WALL-WASHER product. In recent years, façade lighting has been introduced in many places. It provides a strong, high quality lighting effect and is made of aluminum alloy and a cover of transparent tempered glass, in addition to its anodized surface and a polyester powder coating.

It is available in different colors. Red and blue are the most popular without forgetting RGB, with which we are able to illuminate multiple areas.

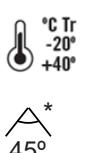
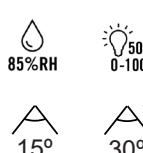
The WALL-WASHERcomprises a cree chip of 2W. Each one allows us to attain 95lm / W and 170Lux at a height of 6 metres.

It is a product to be remembered when lighting areas such as the facades of dealerships, historic buildings, homes and businesses.

 A Led's Go Project SL apresenta a família de fachada e o seu produto WALL-WASHER. Nos últimos anos, a luminária de fachada foi introduzida em vários lugares, proporcionando um efeito de iluminação forte e de alta qualidade. Feito em liga de alumínio e com uma cobertura de vidro temperado transparente, possui também superfície anodizada e um revestimento anti-poeiras de poliéster

Disponível em diversas cores, o vermelho e o azul são os mais famosos, sem deixar atrás o RGB, com o qual podemos iluminar várias áreas. A LUMINÁRIA é composta por um chip de 2W cada, com que, de acordo com a medida do mesmo, se atingem 95 lm/W e 170 Lux a 6 metros de altura.

Sem dúvida, um produto a ser tido em conta no momento de iluminar áreas como fachadas de concessionários, prédios históricos, residências, empresas, etc.

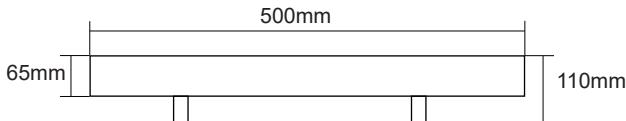




## WALL-WASHER 24W

ID. PI-05024

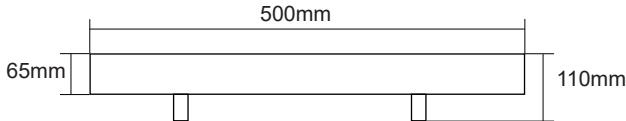
ID	EAN-13	W	CCT	lm
PI-05024/B	8436549151897	24W	●	2100
PI-05024/R	8436549151903	24W	●	2100



## WALL-WASHER 48W

ID. PI-05048

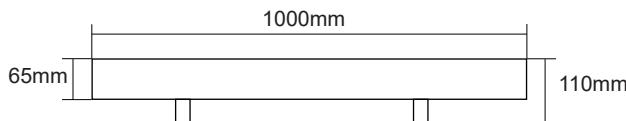
ID	EAN-13	W	CCT	lm
PI-05048/RGB	8436549152108	48W	●	800

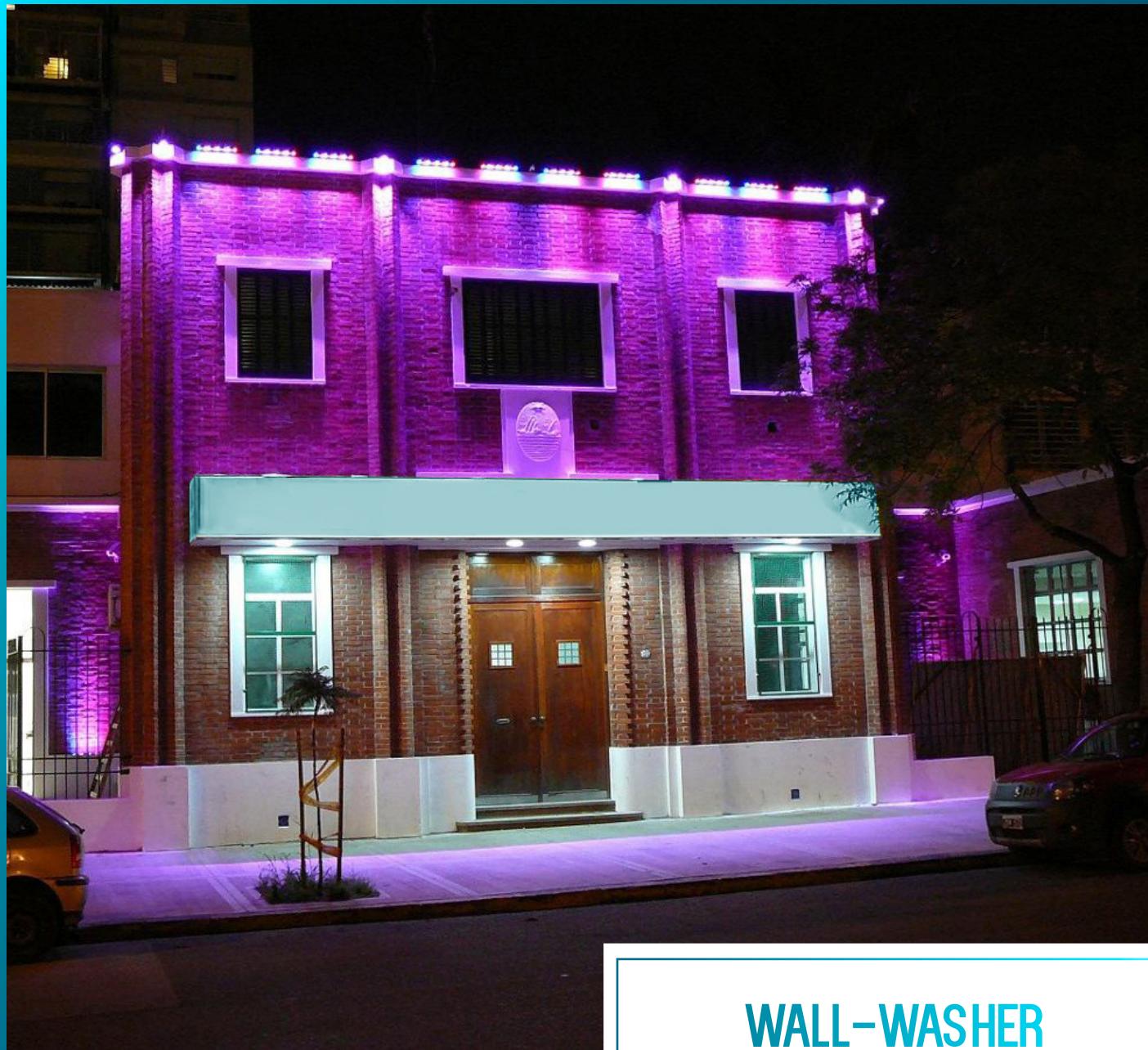


## WALL-WASHER 48W

ID. PI-10048

ID	EAN-13	W	CCT	lm
PI-10048/B	8436549151910	48W	●	4200
PI-10048/R	8436549152061	48W	●	4200
PI-10048/RGB	8436549152115	48W	●	1500





**WALL-WASHER**



**ATEX**  
**/ ATEX / ATEX**



# ATEX



CE



 RoHS  
COMPLIANT



 Presentamos la familia ATEX, Led's Go Project se introduce al mercado ATEX con la distribución exclusiva en España de la firma KHJ, fabricantes del ramo desde hace 20 años. Empresa cuya larga experiencia, certificaciones al día y gran cantidad de obras realizadas la convierten en un gran partner para nuestra empresa.

Grandes casas como SHELL, ENI, BOSCH o TOTAL, ya disfrutan de las ventajas del Atmosphere's Explosives, cumpliendo las normativas y siendo asesorados por profesionales del sector.

KHJ y LED'S GO PROJECT, ofrecen una amplia gama de productos a prueba de explosión y servicios en entornos hostiles y peligrosos tales como, refinerías de petróleo, plantas petroquímicas, campos petrolíferos en tierra y mar adentro, túneles o depósitos de minería.

 Allow us to Introduce the ATEX family. Led's Go Project entered the ATEX market as the sole distributor in Spain for KHJ, who have been manufacturers for 20 years. This company with its long experience, up-to-date certifications and large number of projects implemented make it a great partner for us.

Large companies like SHELL, ENI, BOSCH or TOTAL enjoy the benefits of Atmosphere's Explosives, which are compliant with regulations. Advice is provided by professionals in the sector.

KHJ and LED'S GO PROJECT, offer a wide range of explosion-proof products and services in hostile and dangerous environments such as, oil

 Apresentamos a família ATEX. A Led's Go Project apresenta no mercado ATEX, com a distribuição exclusiva em Espanha da empresa KHJ, fabricante do setor há 20 anos. Empresa cuja longa experiência, certificações atualizadas e grande número de trabalhos realizados a tornaram um ótimo parceiro para a nossa empresa.

Grandes casas como a SHELL, ENI, BOSCH ou TOTAL já desfrutam das vantagens do Atmosphere's Explosives, cumprindo as normas e sendo assessoradas por profissionais do setor.

A KHJ e a LED'S GO PROJECT oferecem uma ampla gama de produtos e serviços à prova de explosão em ambientes hostis e perigosos, como refinarias de petróleo, fábricas petroquímicas, campos petrolíferos em terra e offshore, túneis ou depósitos de minas.

# BROWN BEAR



Aim to become a top brand in LED industrial lighting

CE





# BROWN BEAR

ID. EX-KBB

## Product definition

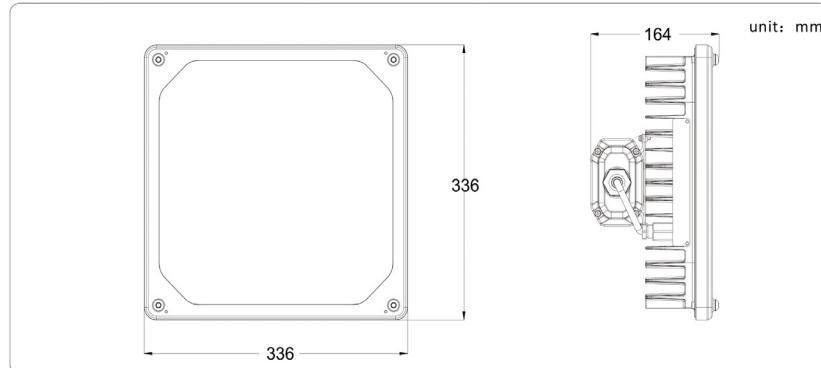
Ex-	K	BB	XX	XX	XX	-X
Type	Brand	Series	Power	Candela Distribution	CCT(K)	Area
Ex-Explosion Proof	BB-Brown Bear		80-80W 100-100W 120-120W 150-150W	H5V5(80°) H6V6(120°)	WM-2700~3300K NH-3700~4300K CH-5400~6400K	
	K-KHJ					E-English
				FW(C0-180°;120°;C90-270°;100°)		

### Parameters:

IP Code:IP66  
Weight(kg):10.5  
Cable Entry:M20,M25,NPT3/4",G3/4"  
Ex Mark:Ex nR IIC T5 or T6 Gc,  
Ex tc IIIC T95° or T80° Dc IP66  
ATEX Certificate NO.:TüV 15 ATEX 7672X



## Size



## Optional parts

NO.	Installation accessories	Picture	Material	Weight (Kg)	QTY
1	Ceiling Bracket		Q235	1.2	1
2	Built-in Bracket		Q235	1	1
3	Stanchion Bracket		Q235	1.8	1
4	Pole mount Bracket		Q235	3	1

# FROG



Aim to become a top brand in LED industrial lighting





# FROG

ID. EX-KF

## Product Definition

Ex-Type	K-Brand	F-Series	XXX-Power	X-Input voltage	XXXX-Candela Distribution	X-CCT(K)	-X-Area
Ex-Explosion Proof	K-KHJ	F-Frog	120-120W 150-150W	AC180~277V A-AC90~180V	H1V1(15°) H3V3(40°) H4V4(60°) H5V5(80°) H6V6(120°) FW(C0-180°;110°;90-270°;120°)	WM-2700 ~3300K NH-3700 ~4300K CH-5400 ~6400K	
							E-English

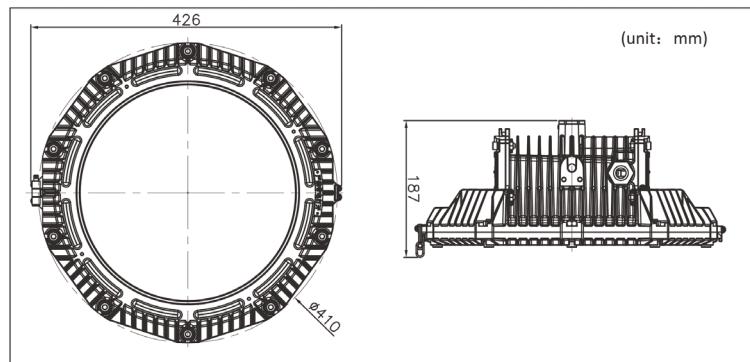
### Parameters:

IP Code: IP 66  
Weight(kg):13.9  
Cable Entry:M20,M25,NPT3/4",G3/4"  
Ex Mark:Ex de IIB T5 or T6 Gb,  
Ex tb IIIC T95° or T80°Db IP 66

ATEX Certification No.:LCIE 13 ATEX 3023X  
IECEx Certification No.:IECEx CQM 13.0003X



## SIZE



## Optional parts

No.	Installation accessories	Picture	Material	Weight (Unit: Kg)	QTY
1	Bracket		Q235	0.4	1
2	Stanchion Bracket 1		Q235	1.63	1
3	Stanchion Bracket 2		Q235	2.26	1
4	Stanchion Bracket 3		Q235	3.89	1
5	Loop		45#+SUS304	0.26	1
6	Pipe connector		SUS304	0.26	1
7	Guard		SUS304	0.38	1

# POLAR BEAR



Aim to become a top brand in LED industrial lighting





# POLAR BEAR

ID.EX-KPLB

## Product Definition

Ex-	K	PLB	XX	XX	X	-X
Type	Brand	Series	Power	Candela Distribution	CCT(K)	Area
Ex-Explosion Proof	K-KHJ	PLB-PolarBear	80-80W	H1V1(15°) H3V3(40°) H4V4(60°)	WM-2700 ~3300K NH-3700 ~4300K	
			120-120W	H5V5(80°)	CH-5400 ~6400K	
			160-160W	H6V6(120°)		
			200-200W	FW(C0-180°;120°;90-270°;100°)		E-English
			240-240W	SL(C0-180°;90°;90-270°;150°)		

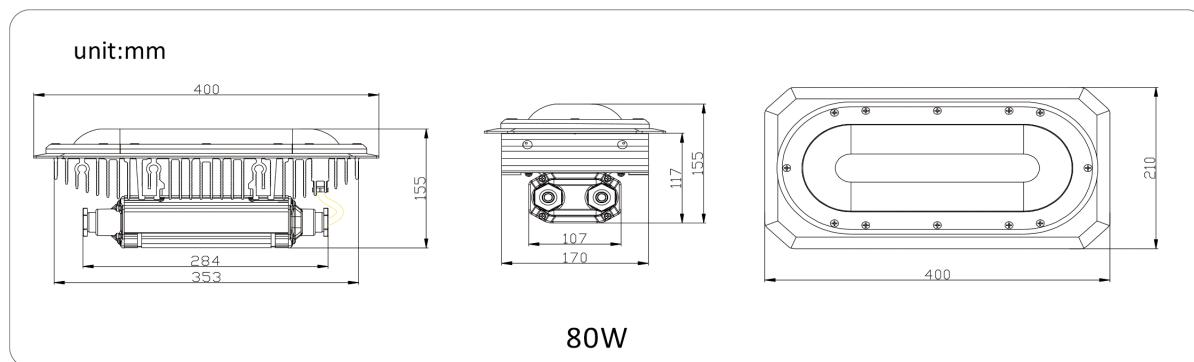
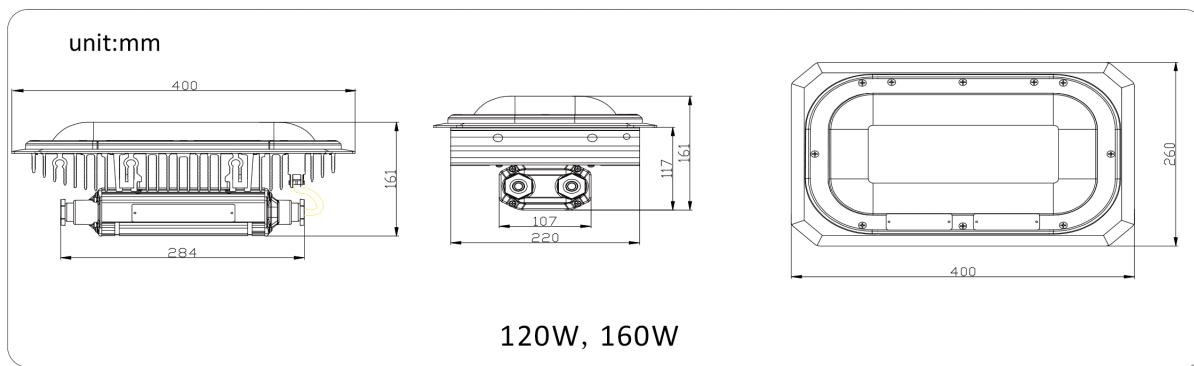
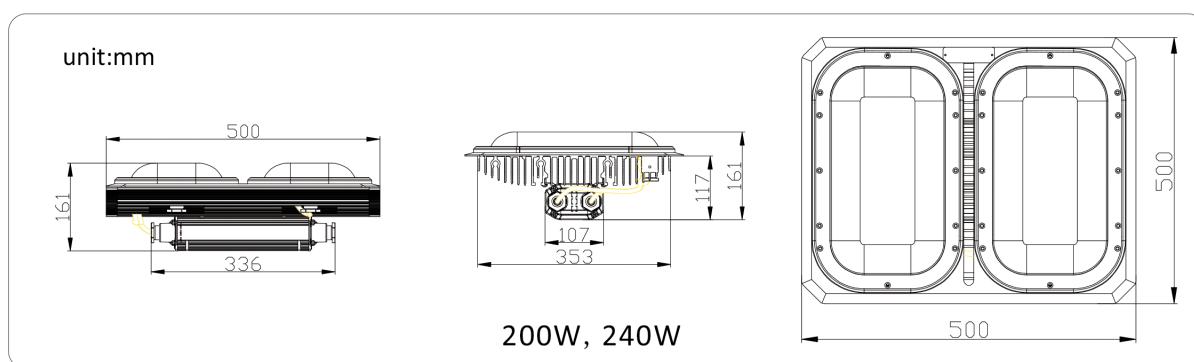
### Parameters:

IP Code: IP 66  
 Weight(kg):7.3(80W),11(120W,160W),18.4(200W,240W)  
 Cable Entry:M20,M25,NPT3/4"  
 ,G3/4"  
 Ex Mark:Ex nR IIC T\* Gc,  
 Ex tc IIIC T\* Dc IP66  
 ATEX Cer;fica;on No.:LCIE 14 ATEX 1014X  
 IECEEx Cer;fica;on No.:IECEEX CQM 13.0044X

Cable Entry:M25,NPT3/4"  
 Class I Division 2,Groups A,B,C,D  
 UL Certification No.:20170823- E491372



## Size

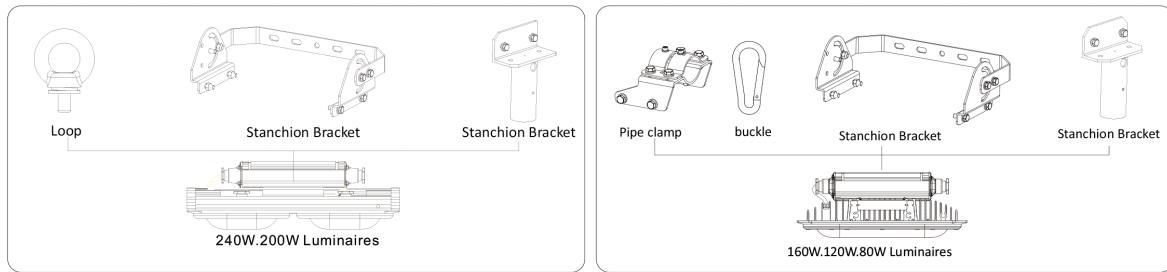




# POLAR BEAR

ID.EX-KPLB

## Optional Parts



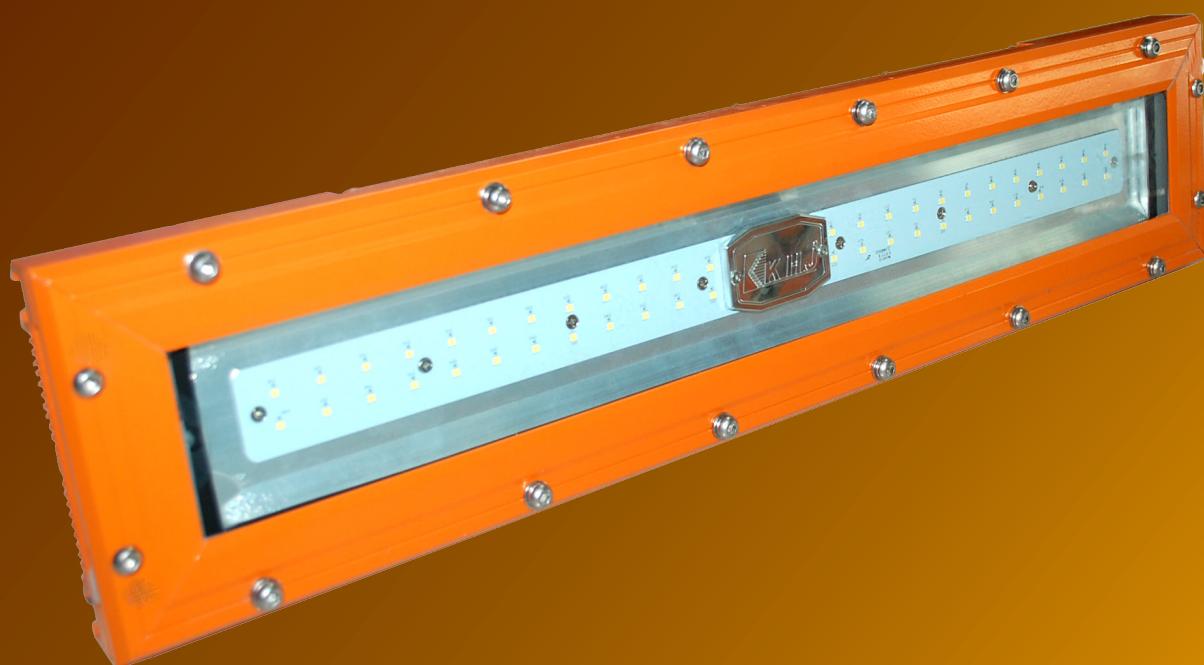
## Optional Parts

No.	Installation accessories	Picture	Material	Weight(Kg)	QTY	Remarks (Apply to)
1	Pipe clamp		Q235	2.1	1	80W
2	Pipe clamp		Q235	2.3	1	120W
3	Loop		45#	0.2	4	200W/240W
4	Buckle		45#	0.1	4	80W/120W/160W
5	Stanchion Bracket-1		Q235	4	1	80W/120W/160W
6	Stanchion Bracket-2		Q235	4.2	1	200W/240W
7	Stanchion Bracket-3		Q235	1.63	1	80W/120W/160W 200W/240W
8	Guard-1		SUS304	0.3	1	80W
9	Guard-2		SUS304	0.35	1	120W/160W
					2	200W/240W



POLAR BEAR

# SWORDFISH



Aim to become a top brand in LED industrial lighting





# SWORDFISH

ID. EX-KSF

## Product Definition

Ex-Type	K-Brand	SF-Series	XX-Power	XX-Input voltage	XX-Size(mm)	XX-Candela	XX-CCT(K)	-U-Type	-E-Area
Ex-Explosion Proof	K-KHJ	SF-Swordfish	18-18W	AC-100~277V	600-600mm	WM-2700~3300K	-U-Type	E-English	
			36-36W	A-AC/DC 24~48V	1200-900mm	NH-3700~4300K			
			48-48W	B-DC 10~30V		CH-5400~7000K			
			56-56W						
			72-72W						

### Parameters:

IP Code: IP 66  
Weight(kg): 6.4(600mm), 8.7(900mm)  
Cable Entry: M20, M25, NPT 3/4", G3/4"

Ex Mark: Ex d eb op is IIB T6 Gb

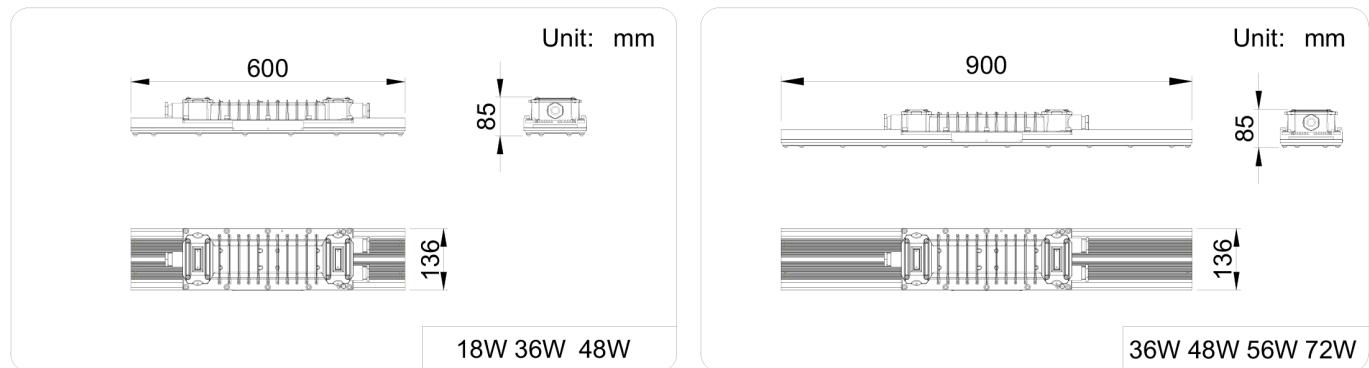
Ex tb op is IIIC T80°Db

ATEX Cer;ifica;on No.: TÜV 15 ATEX 7673X

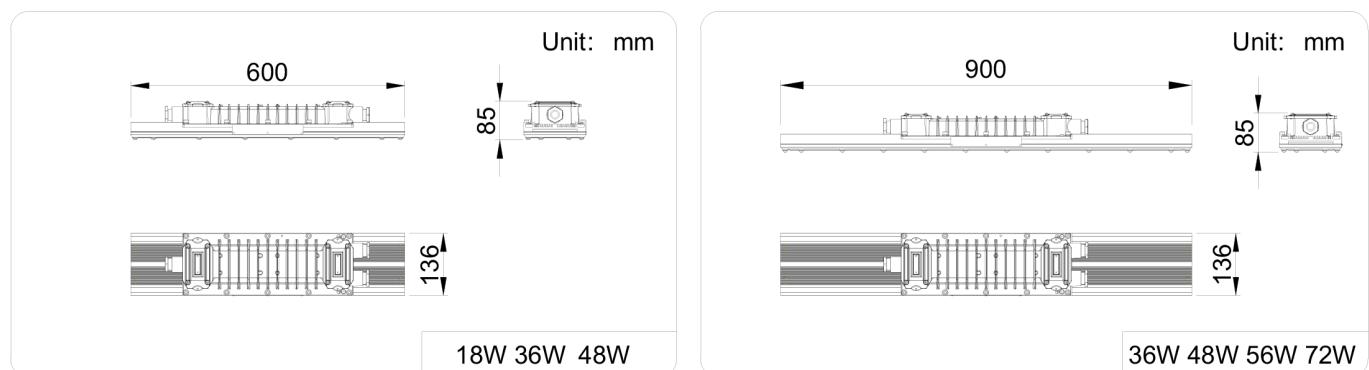
IECEx Cer;ifica;on No.: IECEx TUR 16.0028X



## Size



## Size



**SWORDFISH****ID. EX-KSF****Optional parts**

NO.	Installation accessories	Material	Weight (Unit: kg)	QTY
1	Bracket		Q235	0.8
2	Loop		Q235	1.2
3	Pipe Clamp		Q235	1.8
4	Stanchion bracket		Q235	2.6
5	Clamp mount		Q235	3.0



**SWORDFISH**



# COMPLEMENTOS / ACCESSORIES / ACESSORIOS



# COMPLEMENTOS



CE



RoHS  
COMPLIANT

## KIT EMERGENCIA EMERGENCY KIT

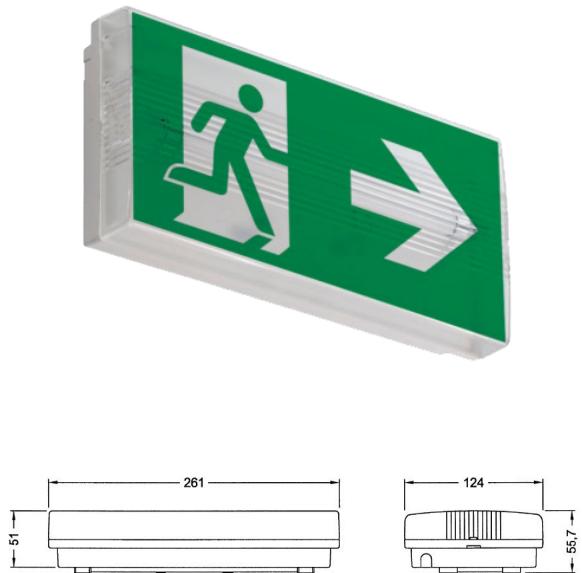


ID	EAN	DESCRIPCIÓN / DESCRIPTION
UNILED 15/120	8436549156847	KIT EMERGENCIA, IP20, 12V 4.4AH, 15V-120V DRIVER EXT. / EMERGENCY KIT, IP20, 12V 4.4H, 15V-120V DRIVER EXT.
UNILED 3/60 4500	8436549156854	KIT EMERGENCIA, IP20, 3.6V 4.5 AH, 6V-60V DRIVER EXT. / EMERGENCY KIT, IP20, 3.6V 4.5H, 6V-60V DRIVER EXT.

## ILUMINACIÓN DE EMERGENCIA

### EMERGENCY LIGHTING

ID	EAN	DESCRIPCIÓN / DESCRIPTION
H-750PAL	8436549156892	ILUMINACION EMERGENCIA, 1H, 75lm, 2,4W, 2,4V / EMERGENCY LIGHTING, 1H, 75lm, 2,4W, 2,4V
H-1000PAL	8436549156908	ILUMINACION EMERGENCIA, 1H, 100lm, 2,4W, 2,4V / EMERGENCY LIGHTING, 1H, 100lm, 2,4W, 2,4V
H-1500PAL	8436549156915	ILUMINACION EMERGENCIA, 1H, 150lm, 2,4W, 2,4V / EMERGENCY LIGHTING, 1H, 150lm, 2,4W, 2,4V
H-2000PAL	8436549156922	ILUMINACION EMERGENCIA, 1H, 230lm, 2,4W, 2,4V / EMERGENCY LIGHTING, 1H, 230lm, 2,4W, 2,4V
H-3000PAL	8436549156939	ILUMINACION EMERGENCIA, 1H, 356lm, 3W, 4,8V / EMERGENCY LIGHTING, 1H, 356lm, 2,4W, 2,4V
H-4000PAL	8436549156946	ILUMINACION EMERGENCIA, 1H, 400LM, 3W, 4,8V / EMERGENCY LIGHTING, 1H, 400lm, 2,4W, 2,4V



## ACCESORIOS ILUMINACIÓN DE EMERGENCIA

### EMERGENCY LIGHTING ACCESSORIES



ID	EAN	DESCRIPCIÓN / DESCRIPTION
H-ST21	8436549156960	GRAPAS PARA EMPOTRAR ST-21 / STAPLES ST-21
H-ST28WHT	8436549156977	MARCO EMPOTRAR ST-28 BLANCO / RECESSED FRAME ST-28 WHITE
H-ST28WGF	8436549156984	MARCO EMPOTRAR ST-28 GRAFITO / RECESSED FRAME ST-28 BLACK LEAD
H-ST28WSV	8436549156991	MARCO EMPOTRAR ST-28 GRIS / RECESSED FRAME ST-28 GREY

## ATEX REGULATION



**KHJ®**  
KHJ SEMICONDUCTOR LIGHTING

**Explosion Proof Knowledge**

Hazardous Areas Classification according to IEC 60079-10-1 and IEC 61241-10-2

Zone	Description
Zone 0 and Zone 20	An area in which an explosive atmosphere is continuously present or for long periods or frequently
Zone 1 and Zone 21	An area in which an explosive atmosphere is likely to occur occasionally in normal operation
Zone 2 and Zone 22	An area in which an explosive atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only

Selection of Protected Equipment in Hazardous Areas generally according to IEC 60079-14

Zone	Type of Protection Assigned to Equipment	EPL
Zone 0	Ex ia Ex ma and types of protection suitable for Zone 0 as constructed to IEC 60079-26	Ga
Zone 1	Any type of protection suitable for Zone 0 and Ex d, Ex ib, Ex py, Ex e, Ex q and Ex mb (Also see notes on Ex s protection)	Gb
Zone 2	Any type of protection suitable for Zone 0 or 1 and Ex n, Ex mc, Ex ic, Ex pz and Ex o (Also see notes on Ex s protection)	Gc
Zone 20	tD A20, tD B20, iaD and maD	Da
Zone 21	Any type of protection suitable for Zone 20 and tD A21, tD B21, ibD, mbD and pD	
Zone 22	Any type of protection suitable for Zone 20 or 21 and tD A22 IP 6X	Dc

EPL, ATEX Category, Design Requirements and Expected Application

IEC EPL	ATEX Category	Degree of Safety	Design Requirement(condensed)	Expected Zone of use
Ga	Category 1	Very high level of protection	Two independent means of protection or safe with two independent faults	Zone 0
Da	Category 1			Zone 20
Gb	Category 2	High level of protection	Safe with frequently occurring disturbances or with a normal operating fault	Zone 1
Db	Category 2			Zone 21
Gc	Category 3	Enhanced level of protection	Safe in normal operation	Zone 2
Dc	Category 3			Zone 22



## Certified Instrumentation from Endress+Hauser for North America

### Markings for Canada (Marking Examples)

Option A: Zones

Option B: Divisions

**Ex ia IIC T4 Class I, Division 1, Groups A,B,C&D T4**

Means:		Means:	
Ex	Explosion protected	Class I	Flammable gas or vapor
ia	Protection method (Intrinsic Safety)	Division 1	Area classification (explosive atmosphere may exist under normal operating conditions)
IIC	Gas group (acetylene & hydrogen)	Group A,B,C&D	Gas groups
T4	Temperature class	T4	Temperature code

### Protection Concepts

### Ex/AEx

Method of Protection	Code	Permitted Use	Standard US (FM)	Standard Canada (CSA)	Protection Principle
Increased Safety	AEx e	Class I, Zone 1	FM 3600* (ISA S12.16.01)	CSA Std. E79-7	No arcs, sparks or hot surfaces
	Ex e	Zone 1	IEC 60079-7		
Non-incendive	(NI)	Class I, Div 2	FM 3611	CSA Std. C22.2 No. 213 and CEC, Part I, App. J	
Non-sparking	Ex nA	Zone 2	IEC 60079-15	CSA Std. E79-15	
Explosionproof	(XP)	Class I, Div 1	FM 3615	CSA Std. C22.2 No. 30	
Flameproof	AEx d	Class I, Zone 1	FM 3600* (ISA S12.22.01)	CSA Std. E79-1	Contain the explosion and quench the flame
	Ex d	Zone 1	IEC 60079-1		
Powder Filled	AEx q	Class I, Zone 1	FM 3600* (ISA S12.25.01)	CSA Std. E79-5	
	Ex q	Zone 1	IEC 60079-5	CSA Std. E79-5	
Enclosed Break	Ex nC	Zone 2	IEC 60079-15	CSA Std. 79-15	
Intrinsic Safety	(IS)	Class I, Div 1	FM 3610	CSA Std. C22.2 No. 157	
	AEx ia	Class I, Zone 0	FM 3610	CSA Std. C22.2 No. 157/ CSA Std. E79-11	Limit energy of sparks and surface temperature
	AEx ib	Class I, Zone 1	FM 3610		
	Ex ia	Zone 0	IEC 60079-11		
	Ex ib	Zone 1	IEC 60079-11	CSA Std. E79-11	
	Ex nA	Zone 2	IEC 60079-15	CSA Std. E79-15	
Limited Energy	Ex nL	Zone 2	IEC 60079-15	CSA Std. E79-15	
Pressurized	Type X	Class I, Div 1	FM 3620	CSA Std. E79-2	Keep flammable gas out
	Type Y	Class I, Div 1	FM 3620		
	Type Z	Class I, Div 2	FM 3620		
	Ex p	Zone 1			
	Ex px	Zone 1	IEC 60079-2		
	Ex py	Zone 1	IEC 60079-2		
	Ex pz	Zone 2	IEC 60079-2		
Restricted Breathing	Ex nZ	Zone 2	IEC 60079-15	CSA Std. E79-15	
Encapsulation	AEx m	Class I, Zone 1	FM 3600* (ISA S12.23.01)	CSA Std. E79-15	
	Ex m	Zone 1	IEC 60079-18	CSA Std. E79-18	
Oil Immersion	AEx o	Class I, Zone 1	FM 3600* (ISA S12.26.01)	CSA Std. E79-6	
	Ex o	Zone 1	IEC 60079-6	CSA Std. E79-6	

\*Also shall comply with ISA S12.00.01

Based on ISA S12.02.01



## Explosion Proof Knowledge

Certified Instrumentation from Endress+Hauser for North America

### Markings for the United States (Marking Examples)

Option A: Zones

Option B: Divisions

**Class I, Zone 0, AEx ia IIC T4 IS Class I, Division 1, Groups A,B,C&D T4**

Means:		Means:	
Class I	Flammable gas or vapor	IS	Protection method (Intrinsic Safety)
Zone 0	Area classification (explosive atmosphere present continuously)	Class I	Flammable gas or vapor
A	Conformity to US requirements	Division 1	Area classification (explosive atmosphere may exist under normal operating conditions)
Ex	Explosion protected	Group A,B,C&D	Gas groups
ia	Protection method (Intrinsic Safety)	T4	Temperature code
IIC	Gas group (acetylene & hydrogen)		
T4	Temperature class		

### Area Classification

		Flammable Material Present Continuously (> 1000 h/y)	Flammable Material Present Intermittently (10...000 h/y)	Flammable Material Present Abnormally (< 10 h/y)
IEC CENELEC	Gas	Zone 0	Zone 1	Zone 2
CENELEC	Dust	Zone 20	Zone 21	Zone 22
NEC & CEC (North America)	Gas, Dust and Fibers	Division 1	Division 1	Division 2
	Gas	Zone 0	Zone 1	Zone 2

### Zone/Division

### Temperature Code T4 and Temperature Class

Maximum Surface Temperature [°C]	North American Temperature Code	CENELEC/IEC Temperature Class
450	T1	T1
300	T2	T2
280	T2A	
260	T2B	
230	T2C	
215	T2D	
200	T3	T3
180	T3A	
165	T3B	
160	T3C	
135	T4	T4
120	T4A	
100	T5	T5
85	T6	T6

### Special Purpose Enclosures

Enclosure Type US (NEMA 250) and Canada (CSA Std. C22.2 No. 94)	Approximate equivalent IP-Code (IEC 60529)	Protection against
1	→ IP10	incidental contact with the enclosed equipment
2	→ IP11	dripping and light splashing of liquids
3	→ IP54	windblown dust, rain, sleet, snow and external formation of ice
3R	→ IP14	rain, sleet, snow and external formation of ice
3S	→ IP54	windblown dust, rain, sleet, snow and external mechanism(s) remain operable when ice laden
4	→ IP56	windblown dust, rain, sleet, snow, splashing water, hose-directed water
4X	→ IP56	windblown dust, rain, sleet, snow, splashing water, hose-directed water and corrosion
5	→ IP52	settling airborne dust, lint, fibers, flyings, dripping and light splashing of liquids
6	→ IP67	hose-directed water, entry of water during occasional temporary submersion at limited depth
6P	→ IP67	hose-directed water, entry of water during prolonged submersion at limited depth

### IIC/Groups Hazardous Locations Groups

Typical Hazard	North America CEC Section 18 NEC Article 500	CENELEC/IEC EN 60079 IEC 60079
Acetylene	Class I/Group A or IIC	IIC
Hydrogen	Class I/Group B or IIC	IIC
Ethylene	Class I/Group C or IIB	IIB
Propane	Class I/Group D or IIA	IIA
Methane	Group D (gaseous mines) or I	I
Metal Dust	Class II/Group E	
Coal Dust	Class II/Group F	
Grain Dust	Class II/Group G	
Fibers	Class III	



## Certified Instrumentation from Endress+Hauser for North America

### Markings for Canada (Marking Examples)

Option A: Zones

Option B: Divisions

**Ex ia IIC T4 Class I, Division 1, Groups A,B,C&D T4**

Means:		Means:	
Ex	Explosion protected	Class I	Flammable gas or vapor
ia	Protection method (Intrinsic Safety)	Division 1	Area classification (explosive atmosphere) may exist under normal operating conditions
IIC	Gas group (acetylene & hydrogen)	Group A,B,C&D	Gas groups
T4	Temperature class	T4	Temperature code

## Protection Concepts

## Ex/AEx

Method of Protection	Code	Permitted Use	Standard US (FM)	Standard Canada (CSA)	Protection Principle
Increased Safety	AEx e	Class I, Zone 1	FM 3600* (ISA S12.16.01)		No arcs, sparks or hot surfaces
	Ex e	Zone 1	IEC 60079-7	CSA Std. E79-7	
Non-incendive	(NI)	Class I, Div 2	FM 3611	CSA Std. C22.2 No. 213 and CEC, Part I, App. J	
Non-sparking	Ex nA	Zone 2	IEC 60079-15	CSA Std. E79-15	
Explosionproof	(XP)	Class I, Div 1	FM 3615	CSA Std. C22.2 No. 30	
Flameproof	AEx d	Class I, Zone 1	FM 3600* (ISA S12.22.01)		Contain the explosion and quench the flame
	Ex d	Zone 1	IEC 60079-1	CSA Std. E79-1	
Powder Filled	AEx q	Class I, Zone 1	FM 3600* (ISA S12.25.01)		
	Ex q	Zone 1	IEC 60079-5	CSA Std. E79-5	
Enclosed Break	Ex nC	Zone 2	IEC 60079-15	CSA Std. 79-15	
Intrinsic Safety	(IS)	Class I, Div 1	FM 3610	CSA Std. C22.2 No. 157	
	AEx ia	Class I, Zone 0	FM 3610		
	AEx ib	Class I, Zone 1	FM 3610		
	Ex ia	Zone 0	IEC 60079-11	CSA Std. C22.2 No. 157/ CSA Std. E79-11	Limit energy of sparks and surface temperature
	Ex ib	Zone 1	IEC 60079-11	CSA Std. E79-11	
	Ex nA	Zone 2	IEC 60079-15	CSA Std. E79-15	
Limited Energy	Ex nL	Zone 2	IEC 60079-15	CSA Std. E79-15	
Pressurized	Type X	Class I, Div 1	FM 3620		
	Type Y	Class I, Div 1	FM 3620		
	Type Z	Class I, Div 2	FM 3620		
	Ex p	Zone 1		CSA Std. E79-2	Keep flammable gas out
	Ex px	Zone 1	IEC 60079-2		
	Ex py	Zone 1	IEC 60079-2		
	Ex pz	Zone 2	IEC 60079-2		
	Ex nZ	Zone 2	IEC 60079-15	CSA Std. E79-15	
Restricted Breathing	Ex nR	Zone 2	IEC 60079-15	CSA Std. E79-15	
Encapsulation	AEx m	Class I, Zone 1	FM 3600* (ISA S12.23.01)		
	Ex m	Zone 1	IEC 60079-18	CSA Std. E79-18	
Oil Immersion	AEx o	Class I, Zone 1	FM 3600* (ISA S12.26.01)		
	Ex o	Zone 1	IEC 60079-6	CSA Std. E79-6	

\*Also shall comply with ISA S12.00.01

Based on ISA S12.02.01



## Explosion Proof Knowledge

ATEX certified instrumentation from Endress+Hauser

### Approval number EC

KEMA 01 ATEX 1234 X

Year of issue

ATEX directive

Consecutive number

Special conditions

Notified body i.e. KEMA, PTB, CESI, TÜV, DMT, etc.

#### Protection Method

EEx ia

Summary of protection methods against explosion

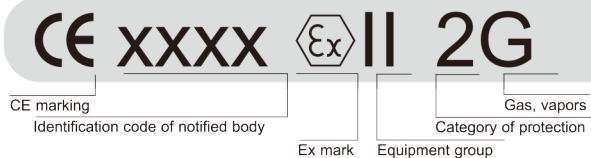
General Principles	IEC / European Practice	Cenelec EN Zone	American* Practice	Division	Principle Characteristics
Explosion Containment	Explosion-proof Ex >>d<<	1, 2	50018	Explosion-proof	1, 2
Segregation	Pressurization Ex <<p<<	1, 2	50016	Purging	1, 2
	Encapsulation Ex <<m<<	1, 2	50028	Not recognized	-
	Oil-immersion Ex >>o<<	1, 2	50015	Oil-immersion	1, 2
	Powder filling Ex <<q<<	1, 2	50017	Not recognized	-
Prevention	Increased safety Ex >>e<<	1, 2	50019	Not recognized	-
	Intrinsic safety Ex >>ia<<	0, 1, 2 (20, 21, 22)*	50020/50039/ 50284	Intrinsic safety	1, 2
	Intrinsic safety Ex >>ib<<	1, 2 (21, 22)*	50020/50039	Not recognized	-
Special requirement for category 1 equipment	Type n Ex >>n<<	2	50021	Non incendive	2
	0 (1, 2)*	50284	Not recognized	-	Additional requirements for equipment protected by standardized types of protection.
Dust Ex Protection	Protection by enclosure and temperature limitation	20, 21, 22	50281	NEC Section 90-4	1, 2
					Special requirements for equipment in dust explosion hazardous areas.



ATEX certified instrumentation from Endress+Hauser

## ATEX Marking

Marking example:



## Type of Protection

unchanged



### Category of Equipment

ATEX directive divides equipment into groups and additional into categories:

**II 2G**

#### Group I (Mines)

Subdivided into categories  
M1 Equipment remains functional with an explosive atmosphere present

M2 Equipment to be de-energized in the event of an explosive atmosphere

#### Group II (Surface (non-mining) equipment)

Category	subdivided into	Zone
1G (gas)	Equipment with a very high level of protection	0 (gas)
1D (dust)		20 (dust)
2G (gas)	Equipment with a high level of protection	1 (gas)
2D (dust)		21 (dust)
3G (gas)	Equipment with a normal level of protection	2 (gas)
3D (dust)		22 (dust)

Note: category 2D apparatus required for Zone 22 (conductive dust).

Examples of Category marking:

- 1/2G for equipment interfacing Zone 0 and Zone 1 areas
- 1/3D for equipment interfacing Zone 20 and Zone 22 areas
- (1) for associated apparatus with intrinsically safe output into Zone 0

### Temperature Classification

\*1 for comparison only

Maximum Surface Temperature Degree C	Degree F	Temperature Classification IEC/European	Temperature Classification North American*1
450	842	T1	T1
300	572	T2	T2
280	536		T2A
260	500		T2B
230	446		T2C
215	419		T2D
200	392	T3	T3
180	356		T3A
165	329		T3B
160	320		T3C
135	275	T4	T4
120	248		T4A
100	212		T5
85	185	T6	T6

**T4**

### Apparatus Group and Gas/Dust Group

Hazard Categories	Apparatus Classification Europe	Apparatus Classification North America*1	Min. Ignition Energy
Mines	Group I	Group D (gaseous mines)	
Acetylene	Group IIC	Class I, Group A	20 µJ
Hydrogen	Group IIC	Class I, Group B	20 µJ
Ethylene	Group IIB	Class I, Group C	60 µJ
Propane	Group IIA	Class I, Group D	180 µJ
Metal dust		Class II, Group E	More easily ignitable
Coal dust		Class II, Group F	
Grain dust		Class II, Group G	
Fibers		Class III	

**IIC**

# ATEX

### ATEX Directives AT<sub>mosphere</sub> EX<sub>plodable</sub>

Old directives specify the European standards

New directives specify the so called Essential Health and Safety Requirements

Dust-Ex hazardous areas are regulated first time in EC.

At this moment there are three directives for equipment intended for use in Hazardous Area:

82/139/EEC (Mines)  
Will be valid until June 30, 2003  
Only Electrical Equipment

76/117/EEC (Surface Industries)  
Will be valid until June 30, 2003  
Only Electrical Equipment

New directive  
94/9/EC (ATEX) valid since March 1, 1996 mandatory July 1, 2003  
All Equipment, Protective Systems and Components

### Summary of changes:

Categorisation of equipment matching area classifications.

Categorisation based upon Essential Safety Requirements (ESR):

- Consider electrical and non-electrical equipment, also dust-Ex hazardous areas
- Influencing equipment design with respect to

- Protective method
- Choice of materials
- Equipment marking
- Safety instructions included
- Environmental and atmospheric conditions
- Software included

It will be mandatory to re-certify equipment certified under the old directives if you want to sell this equipment after July 1, 2003.

## SIMBOLOGÍA / SYMBOLS / SIMBOLOGIA

	Regulable	Dimable	Regulável
	No regulable	Non-dimmable	No regulável
	Regulable 0-10V	Dimable 0-10V	Regulável 0-10V
	Apertura de haz 60°	Beam angle	Abertura de feixe
	Tensión de entrada AC 110V 230V	Input voltage	Tensão de entrada
	Frecuencia de trabajo 50/60 Hz	Operating frequency	Frequência de trabalho
	Clase de seguridad I	Security class I	Classe de segurança I
	Clase de seguridad II	Security class II	Classe de segurança II
	Flujo lumínico Im 20180	Luminous flux	Fluxo total
	Sistema de codificación para indicar el grado de protección proporcionado por un envolvente contra la entrada de elementos sólidos y líquidos	Coding system to indicate the level of protection provided by covering against the influx of solids and liquids	sistema de codificação para indicar o grau de proteção proporcionado por uma envolvente contra a entrada de elementos sólidos e líquidos
	Sistema de codificación para indicar el grado de protección proporcionado por un envolvente contra los impactos mecánicos nocivos. (Jules)	Coding system to indicate the level of protection provided by covering against harmful mechanical impacts. (Jules)	sistema de codificação para indicar o grau de proteção proporcionado por uma envolvente contra os impactos mecânicos nocivos. (Jules)
	Índice de reproducción cromática CRI 70	Colour Rendering Index	Índice de reprodução cromática
	Orientable eje vertical	Adjustable vertical shaft	Eixo orientável vertical
	Orientable eje horizontal	adjustable horizontal shaft	eixo orientável horizontal
	Unidad por caja Box	Unit by box	Unidade por caixa
	Vida útil 40.000h	Lifespan	Vida útil
	Humedad relativa máxima en ambiente de trabajo 85%RH	Maximum relative humidity in work environment	Humidade relativa máxima em ambiente de trabalho
	Diámetro de corte para montar luminarias empotradas Ø75mm	Cutting diameter to fit fitted lights	Diâmetro de corte para montar luminárias embutidas
	Medida de corte para montar luminarias empotradas rectangulares 1185x285	Cutting measurement to fit rectangular fitted lights	Medida de corte para montar luminárias embutidas
	Montaje en superficie	Surface mount	Montagem em superfície
	Montaje en carril	Track mounting	Montaje em carril
	Rango de temperatura de trabajo -20° +40°	Work temperature range	Intervalo de temperatura de trabalho
	Peso neto del producto 237gr	Product's net weight	Peso líquido do produto
	Menos emisión de CO2	Low CO <sub>2</sub> emissions	Menos emissão de CO <sub>2</sub>
	Índice de Deslumbramiento Unificado <19 UGR<19	Unified Glare Rating <19	Índice de brilho unificado <19
	Índice de Deslumbramiento Unificado <14 UGR<14	Unified Glare Rating <14	Índice de brilho unificado <14
	Sin flicker NO FLICKING	No flicking	Sin flicker
	CE Aprobado	CE Approved	CE Aprovado
	RoHS Aprobado COMPLIANT	ROHS Approved	ROHS Aprovado
	Velocidad de encendido 50ms 0-100%	Turning on speed	Velocidade de acendimento

	Distancia mínima entre el foco de la luminaria y el objeto iluminado	Minimum distance between the light bulb and the object being lit	Distância mínima entre o foco da luminária e o objeto iluminado
	Uso exterior	Outdoor use	Uso externo
	Uso interior	Indoor use	Uso interno
	No cubrir luminaria	Do not cover luminaire	Não cubra a luminária
	Aluminio	Aluminum	Alumínio
	Polimetilmetacrilato	Polymethyl methacrylate	Polimetilmetacrilato
	Acrilonitrilo butadieno estireno	Acrylonitrile Butadiene Stirene	Acrilonitrila-butadieno-estireno
	Vidrio	Glass	Vidro
	Color del acabado	Finish color	Acabamento de cor
	Color del acabado	Finish color	Acabamento de cor
	Color del acabado	Finish color	Acabamento de cor
	Disponibilidad de color según RAL aportado	Availability of color according to RAL provided	Disponibilidade de cor de acordo com o RAL fornecido
	Luz Cálida 2200K	Warm Light 2200K	Luz Quente 2200K
	Luz Cálida 2700K	Warm Light 2700K	Luz Quente 2700K
	Luz Cálida 3000K	Warm Light 3000K	Luz Quente 3000K
	Luz Natural 4000k	Natural Light 4000k	Luz Natural 4000K
	Luz Fría 5000K	Cold Light 5000k	Luz Fria 5000K
	Luz Fría 5700K	Cold Light 5700k	Luz Fria 5700K
	RGB	RGB	RGB
	Programable	Programmable	Programável
	Driver incorporado	Built-in driver	Driver embutido
	Driver no incorporado	Non Built-in driver	Driver no embutido
	3 días de autonomía	3 days of autonomy	3 dias de autonomia
	Voltaje de seguridad bajo	Safety Extra Low Voltage	Voltagem extra baixa de segurança
	Óptica concentrada	Pinhole optics	Ótica concentrada
	Óptica universal	Universal optics	Ótica universal
	Bañador de fachada	Wallwasher	Lavagem de parede
	Óptica asimétrica	Asymmetric optics	Ótica assimétrica
	Luz de emergencia	Emergency light	Luz de emergência
	Sensor de presencia	Presence sensor	Sensor de presença
	Alta rotación de producto	High product rotation	Alta rotação do produto
*	Producto bajo pedido	Product on request	Produto a pedido
	Bluetooth	Bluetooth	Bluetooth

## PROTECCIÓN IP GRADO DE PROTECCIÓN (IP), ACORDE A DIN EN IEC 60529

GRADO DE PROTECCIÓN CONTRA LA INTRODUCCIÓN DE CUERPOS SÓLIDOS		
PRIMER ÍNDICE	DESCRIPCIÓN	ALCANCE DE LA PROTECCIÓN
0	Sin protección	Sin especial protección para personas contra un contacto directo de piezas móviles internas y externas con vida. Sin protección a los equipamientos contra el riesgo de objetos sólidos externos.
1	Protección contra cuerpos sólidos grandes	Protección contra el contacto accidental de grandes áreas con vida y partes interiores con movimiento, por ejemplo: La parte posterior de la mano. Pero sin protección contra el acceso deliberado del mismo. Protección contra el ingreso de objetos sólidos con un diámetro mayor que 50mm
2	Protección contra cuerpos sólidos medianos	Protección contra el contacto entre los dedos y las partes interiores móviles. Protección contra el ingreso de objetos sólidos con un diámetro mayor a 12,5mm.
3	Protección contra cuerpos sólidos pequeños	Protección contra el contacto entre las piezas móviles internas y herramientas, cables, hilos... con un espesor mayor a 2,5mm. Protección contra el ingreso de objetos sólidos con un diámetro mayor a 2,5mm
4	Protección contra los cuerpos sólidos muy pequeños (granulados)	Protección contra el contacto entre las piezas móviles internas y herramientas, cables, hilos... con un espesor mayor a 1mm. Protección contra el ingreso de objetos sólidos con un diámetro mayor a 1mm
5	Protección contra los residuos de polvo	Protección contra el contacto entre piezas móviles interiores y el ingreso de polvo. El ingreso no se previene completamente, pero el polvo no puede penetrar en tales cantidades que puedan afectar al funcionamiento correcto del mismo.
6	Protección total contra la penetración de cualquier cuerpo sólido (Estanqueidad)	Protección total contra el contacto de las piezas móviles interiores. Protección contra cualquier ingreso de polvo.

GRADO DE PROTECCIÓN AL AGUA		
SEGUNDO ÍNDICE	DESCRIPCIÓN	ALCANCE DE LA PROTECCIÓN
0	Sin protección	Sin ninguna protección especial
1	Protección contra el goteo de agua vertical (Condensación)	La caída vertical de gotas de agua no debe causar daños.
2	Protección contra el goteo de agua inclinada verticalmente	La caída de gotas de agua con hasta un ángulo de 15° de la vertical desde cualquier dirección, no debe causar daño.
3	Protección contra agua en spray	La caída de gotas de agua con hasta un ángulo de 15° de la vertical desde cualquier dirección, no debe causar daño.
4	Protección contra las salpicaduras de agua	Las salpicaduras de agua desde cualquier dirección, no deben de causar daño al interior
5	Protección contra chorros de agua de cualquier dirección con manguera	Los chorros de agua producidos con manguera y desde cualquier dirección, no deben de causar daño al interior
6	Protección contra inundaciones	La cantidad de agua que se introduzca, en casos de inundación esporádica o temporal, no debe dañar el interior, por ejemplo, los golpes de mar.
7	protección contra la inmersión temporal	la cantidad de agua que se introduzca, en caso de sumergir el equipo en específicas condiciones de presión entre 1 y 30 minutos, no debe dañar las piezas internas del mismo.
8	Protección durante inmersión continua	El agua que se pueda introducir, si sumergimos el equipo al menos durante 2 horas y con una presión de dos bares (para los racores HelaGuard IP68 metálicos), no deben de causar daño interior.
9K	Protección contra la introducción de agua a alta presión	El agua que se introduzca en el interior, producida al utilizar pistolas de limpieza con agua de alta presión, no deben causar daño interior

## PROTECTION IP IP INDEX, DIN EN IEC 60529

DEGREE OF PROTECTION AGAINST SOLIDS		
FIRST DIGIT	DESCRIPTION	SCOPE OF PROTECTION
0	without protection	No special protection for people against direct contact of internal and external moving parts with life. Without protection to equipments against the risk of external solid objects.
1	Protection against large solid bodies	Protection against accidental contact of large areas with life and internal parts with movement, for example: The back of the hand. But without protection against the deliberate access of it. Protection against the entry of solid objects with a diameter greater than 50mm
2	Protection against medium solid bodies	Protection against contact between the fingers and the moving interior parts. Protection against the entry of solid objects with a diameter greater than 12.5mm.
3	Protection against small solid bodies	Protection against contact between internal moving parts and tools, cables, wires ... with a thickness greater than 2.5mm. Protection against the entry of solid objects with a diameter greater than 2.5mm
4	Protection against very small solid bodies (granules)	Protection against contact between internal moving parts and tools, cables, wires ... with a thickness greater than 1mm. Protection against the entry of solid objects with a diameter greater than 1mm
5	Protection against dust residues	Protection against contact between internal moving parts and the ingress of dust. The income is not completely prevented, but the powder can not penetrate in such quantities that it can affect the correct functioning of the same.
6	Total protection against the penetration of any solid body (Leakproofness)	Total protection against contact of internal moving parts. Protection against any dust ingress.

DEGREE OF PROTECTION AGAINST WATER		
FIRST DIGIT	DESCRIPTION	SCOPE OF PROTECTION
0	Without protection	Without protection
1	Protection against vertical water dripping (Condensation)	The vertical drop of water droplets should not cause damage.
2	Protection against dripping vertically inclined water	Dropping water drops with an angle of 15° from the vertical from any direction should not cause damage.
3	Protection against spray water	Dropping water drops with an angle of 15° from the vertical from any direction should not cause damage.
4	Protection against water splash	Splashing water from any direction should not cause damage to the interior
5	Protection against water jets from any direction with hose	The jets of water produced with hose and from any direction, should not cause damage to the interior
6	Protection against floods	The amount of water that is introduced, in cases of sporadic or temporary flooding, should not damage the interior, for example, the impacts of the sea.
7	Protection against temporary immersion	the amount of water that is introduced, in case of immersing the equipment in specific conditions of pressure between 1 and 30 minutes, should not damage the internal parts of the same.
8	Protection during continuous immersion	The water that can be introduced, if we submerge the equipment for at least 2 hours and with a pressure of two bars (for HelaGuard IP68 metallic fittings), should not cause internal damage.
9K	Protection against the introduction of high pressure water	The water that is introduced inside, produced when using cleaning guns with high pressure water, should not cause internal damage

## NIVELES DE ILUMINACIÓN

ACTIVIDAD	NIVELES DE ILUMINACION (LUX)			TONOS DE LUZ RECOMENDADOS		ACTIVIDAD	
	MINIMO	BUENO	MUY BUENO	LUZ DIA	BLANCO	BLANCO CALIDO	
<b>ASCENSORES</b>							
Interior	300	500	700				
Rellano	50	100	200				
<b>EDIFICIOS AGRICOLAS</b>							
Garajes, cocheras: Alumbrado general	50	100	200				
Reparaciones	200	300	500				
Graneros, almacenes: Alumbrado general	50	150	300				
Gallineros, porquerizas y conejeros	50	150	300				
Preparación de los alimentos al ganado	100	200	400				
<b>ENSEÑANZA</b>							
Dibujo de arte, industrial y costura	500	700	1000				
Gimnasios	150	300	500				
Pizarras	300	500	700				
Salas de clases y laboratorios	200	500	1000				
Salas de conferencias	200	500	1000				
Vestíbulos, habitaciones de paso	150	500	700				
Vestuarios, tocadores, lavabos	50	100	250				
<b>GARAJES</b>							
Parkings	100	150	300				
Reparaciones	200	300	500				
<b>HABITACIONES</b>							
Cuartos de baño: Alumbrado general	50	100	250				
Espejos	200	500	1000				
Cocinas	150	300	600				
Cuartos de estar: Alumbrado general	70	200	400				
Lectura	200	500	700				
Cuartos de niños	70	200	400				
Dormitorios: Alumbrado general	50	100	250				
Camas	200	500	800				
Escaleras	100	150	300				
Trabajo de escolares en casa	300	500	750				
<b>HOSPITALES Y CLINICAS</b>							
Camas	100	200	400				
Habitaciones y salas: Alumbrado general	50	100	250				
Alumbrado de noche	10						
Sobre la cama, examen y lectura	300	500	750				
Gabinetes dentales, sillón	700	2500	5000				
Salas de espera	200	400	600				
Laboratorios (Patología e información)	300	500	1000				
Mesas de operación	3000	5000	8000				
Quirófanos	300	500	1000				
Salas de examen	300	500	1000				
Salas de recepción y espera	200	400	600				
<b>HOTELES, CAFES Y RESTAURANTES</b>							
Cocinas	200	400	700				
Comedores y salones	100	300	600				
Dormitorios: Alumbrado general	100	200	400				
Camas	200	500	800				
Recepción: Alumbrado general	100	200	400				
Alumbrado localizado	300	500	750				
<b>LOCALES INDUSTRIALES</b>							
Comunes a todas las categorías:							
Alumbrado general							
Depósitos							
Embalaje							
Entrada, pasillos, escaleras							
Instrumentos de medida y control							
Oficinas de dibujo: Alumbrado general							
Sobre las mesas de dibujo							
Industrias basta: Forja, laminación							
Industrias gran precisión: Grabados, relojería							
Industrias de precisión: Ajuste, pulido							
Industrias muy basta: Almacenaje, embalaje							
Industrias ordinarias: Taladros, torneado							
<b>Imprenta y Artes Gráficas:</b>							
Guillotinas y apisonadoras							
Máquinas de composición mecánica							
Máquinas: salida de las hojas							
Máquinas para batir tintas							
Mesas de arreglo, composición							
<b>Industrias Alimenticias:</b>							
Engatillado, cerrado de cajas							
Ensamado							
Escogido							
Esterilización							
Frigoríficos: Cámara frigorífica							
Salas de máquinas							
Laboratorio							
Preparación de pastas, llenado de latas							
Tratamiento de subproductos							
<b>Industrias Metalúrgicas:</b>							
Alumbrado localizado en los moldes							
Cabina de pulverización							
Laminado, cizallado y trefilado							
Nave de guarnecido de carrocerías							
Preparación de chapas, pintura y pulimentado							
Dosificación y mezcla de los colores							
Pulido de pinturas, decoración, acabado							
Inspección: Detalles a verificar minúsculos							
Detalles a verificar mediano							
Detalles a verificar fino							
Detalles a verificar muy finos							
Rebarbado							
Talleres de montaje: Piezas muy pequeñas							
Talleres de montaje de piezas medianas							
Talleres de montaje de piezas pequeñas							
Talleres: Modelado, embutición, fusilaje							
Trabajos de piezas medianas en banco o maq.							
Trabajos de piezas pequeñas en banco o maq.							
Trabajos muy finos en banco o máquina							

NIVELES DE ILUMINACION (LUX)			TONOS DE LUZ RECOMENDADOS			ACTIVIDAD	NIVELES DE ILUMINACION (LUX)			TONOS DE LUZ RECOMENDADOS		
MINIMO	BUENO	MUY BUENO	LUZ DIA	BLANCO	BLANCO CALIDO		MINIMO	BUENO	MUY BUENO	LUZ DIA	BLANCO	BLANCO CALIDO
100	200	400	-	-	-	<b>Industrias Químicas</b>	200	300	600	-	-	-
50	200	400	-	-	-	Delante de los aparatos como: molinos Molido, mezclado, triturado	200	300	500	-	-	-
100	200	400	-	-	-	Sobre el plano de la mesa	300	600	1200	-	-	-
100	200	500	-	-	-	Sobre mesas y pupitres	200	300	600	-	-	-
300	500	1000	-	-	-	Sobre niveles, manómetros, termómetros	300	500	1000	-	-	-
100	200	500	-	-	-	<b>Industrias Textiles</b>	1000	2000	3000	-	-	-
700	1000	2000	-	-	-	Alumbrado localizado	700	1000	2500	-	-	-
200	400	600	-	-	-	Comparación de colores	500	700	1200	-	-	-
1000	2500	5000	-	-	-	Control final	150	300	600	-	-	-
600	1000	2000	-	-	-	Preparación: Mezcla, vareado, estirado	300	500	1000	-	-	-
70	80	150	-	-	-	Talleres de corte	300	500	1000	-	-	-
300	600	800	-	-	-	Trabajos sobre el bastidor	300	500	1000	-	-	-
300	500	1000	-	-	-	<b>INDUSTRIAS DEL TRANSPORTE</b>	100	200	400	-	-	-
300	500	1000	-	-	-	<b>Estación de ferrocarril</b>	200	300	500	-	-	-
300	500	1000	-	-	-	Sala de espera	150	200	500	-	-	-
700	1000	2000	-	-	-	<b>Estaciones de Servicio</b>	200	300	600	-	-	-
700	1000	2000	-	-	-	Lavado y reparaciones	300	500	1000	-	-	-
300	500	1000	-	-	-	Patios y accesos	100	150	300	-	-	-
300	500	1000	-	-	-	Surtidores	200	300	600	-	-	-
50	100	200	-	-	-	<b>Garajes de Automóviles</b>	100	150	300	-	-	-
150	200	400	-	-	-	Lavado, engrase, cuidado en general	200	300	500	-	-	-
300	500	1000	-	-	-	Reparaciones	100	150	300	-	-	-
300	500	1000	-	-	-	<b>Hangares de Aviones</b>	200	300	600	-	-	-
50	100	200	-	-	-	Alumbrado general	300	500	1000	-	-	-
150	200	400	-	-	-	Entrenamiento y reparaciones	100	150	300	-	-	-
300	500	1000	-	-	-	<b>Muelles Marítimos</b>	50	100	200	-	-	-
250	400	600	-	-	-	Mercancías	100	200	400	-	-	-
150	200	400	-	-	-	Viajeros	100	150	300	-	-	-
500	700	1200	-	-	-	<b>Venta de Billetes</b>	100	150	300	-	-	-
700	1000	2500	-	-	-	Alumbrado general	100	200	400	-	-	-
200	300	600	-	-	-	Andenes de viajeros	300	500	1000	-	-	-
200	300	600	-	-	-	Cassilleros, Distribuidores y taquillas	100	150	300	-	-	-
300	500	1000	-	-	-	Salas de equipajes	100	150	300	-	-	-
2000	3500	5000	-	-	-	<b>OFICINAS Y ADMINISTRACIONES</b>	100	200	400	-	-	-
300	500	1000	-	-	-	Archivos	300	500	1000	-	-	-
3000	4000	5000	-	-	-	Manejo de libros, mecanografía, ficheros	150	600	700	-	-	-
300	600	1200	-	-	-	Vestíbulos, habitaciones de paso	100	200	400	-	-	-
1000	2000	3000	-	-	-	<b>TIENDAS</b>	300	500	1000	-	-	-
1500	2500	4000	-	-	-	<b>Grandes Superficies</b>	1000	3000	5000	-	-	-
200	300	600	-	-	-	Alumbrado general	500	1000	2000	-	-	-
1000	1500	3000	-	-	-	Escaparates sobre calle comercial	100	200	400	-	-	-
200	300	600	-	-	-	Escaparates sobre calle no comercial	1000	2000	3000	-	-	-
500	1000	2000	-	-	-	Estantes de mercancías	500	700	1200	-	-	-
200	300	600	-	-	-	Presentaciones, especiales y vitrinas	200	300	500	-	-	-
300	500	1000	-	-	-	Sobre los mostradores	300	500	700	-	-	-
500	700	1200	-	-	-	<b>Pequeñas Superficies</b>	500	1000	2000	-	-	-
1000	1500	3000	-	-	-	Alumbrado general	200	300	500	-	-	-
200	300	600	-	-	-	Sobre los mostradores	300	500	700	-	-	-
300	500	1000	-	-	-	Escaparates	500	1000	2000	-	-	-

## LIGHTING LEVELS

ACTIVITY	LIGHTING LEVELS (LUX)			SUGGEST LIGHT TONES		ACTIVITY	
	MINIMUM	GOOD	VERY GOOD	DAY LIGHT	WHITE	WARM WHITE	
<b>ELEVATORS</b>							
Inside	300	500	700				
Hallway	50	100	200				
<b>FARMING BUILDINGS</b>							
Garages, parking, general lighting	50	100	200				
Repairs	200	300	500				
Feed stock rooms, general lighting	50	150	300				
Chicken coops, pork sties, rabbit hutches	50	150	300				
Animal food preparation	100	200	400				
<b>EDUCATION</b>							
Art and industrial drawing and sawing	500	700	1000				
Gymnasiums	150	300	500				
Blackboards	300	500	700				
Classrooms and laboratories	200	500	1000				
Conference rooms	200	500	1000				
Hallways , pass through rooms	150	500	700				
Locker rooms, dressers, washbasins	50	100	250				
<b>GARAGES</b>							
Parking Structures	100	150	300				
Repair shops	200	300	500				
<b>ROOMS</b>							
Bathrooms: general lighting	50	100	250				
Mirrors	200	500	1000				
Kitchens	150	300	600				
Family rooms: general lighting	70	200	400				
Reading	200	500	700				
Childrens rooms	70	200	400				
Bedrooms: general lighting	50	100	250				
Beds	200	500	800				
Staircases	100	150	300				
Homework areas	300	500	750				
<b>HOSPITALS AND CLINICS</b>							
Beds	100	200	400				
Rooms and halls: general lighting	50	100	250				
Night lighting	10						
Bed overhead: examining and reading	300	500	750				
Dental practices, chairs	700	2500	5000				
Waiting rooms	200	400	600				
Laboratories, Pathology and information	300	500	1000				
Surgery tables	3000	5000	8000				
Surgery rooms	300	500	1000				
Examining rooms	300	500	1000				
Reception and waiting rooms	200	400	600				
<b>HOTELS, CAFES AND RESTAURANTS</b>							
Kitchens	200	400	700				
Dining rooms and halls	100	300	600				
Bedrooms: general lighting	100	200	400				
Beds	200	500	800				
Reception: general lighting	100	200	400				
Localized lighting	300	500	750				

### INDUSTRY PREMISES

Common to all categories:

General lighting

Deposits

Packing

Entrances, hallways, staircases

Measurement and control instruments

Drawing offices: general lighting

Drawing boards

Heavy industry: forge, lamination

Great precision industries: engraving, watch making

Precision industries: Fitting, polishing

Very heavy industries: Storage, packing

Ordinary industries: Drills, lathes

### Printing and graphic art shops:

Guillotines and Steamrollers

Mechanic assembling machines

Machines: sheet output

Machines for ink mixing

Composition and arranging tables

### Food industries:

Box making and closing

Bagging

Picking

Sterilization

Refrigeration: refrigerated chamber

Machine rooms

Laboratories

Dough preparation, can filling

By-product treatment

### Metal Industries:

Mold localized lighting

Pulverization chamber

Laminating, Shearing, Wire drawing

Upholstering Shops

Sheet Metal preparation, paint and polishing

Dosaging and mixing of colors

Paint polishing, decoration, finishing

Inspection: Details to verify: minuscule

Details to verify: medium

Details to verify: fine

Details to verify: very fine

Fettled

Assembly shops: very small pieces

Assembly shops: medium pieces

Assembly shops: small pieces

Molding shops: deep drawing, fuselage

Medium piece projects in bench or machine

Small piece projects in bench or machine

Very fine projects in bench or machine

LIGHTING LEVELS (LUX)			SUGGEST LIGHT TONES			ACTIVITY	LIGHTING LEVELS (LUX)			SUGGEST LIGHT TONES		
MINI-MUM	GOOD	VERY GOOD	DAY LIGHT	WHITE	WARM WHITE		MINI-MUM	GOOD	VERY GOOD	DAY LIGHT	WHITE	WARM WHITE
100	200	400	-	-	-	<b>Chemical industries</b> Frontal of machines like: mills Grounding, mixing, crushing Over the leveled table Over tables and desks	200	300	600	-	-	-
50	200	400	-	-	-	Over levels, manometers, thermometers	200	300	500	-	-	-
100	200	400	-	-	-	<b>Textile industries</b> Localized lighting Color comparing Final control	300	600	1200	-	-	-
100	200	500	-	-	-	Preparation, mixing, beating, stretching Cutting shops	200	300	600	-	-	-
300	500	1000	-	-	-	Work over Frames	300	500	1000	-	-	-
100	200	500	-	-	-	<b>TRANSPORT INDUSTRIES</b> <b>Train stations</b> Waiting hall	300	500	1000	-	-	-
700	1000	2000	-	-	-	<b>Gas stations</b> Washing and repairing Halls and accesses Pumps	1000	2000	3000	-	-	-
200	400	600	-	-	-	<b>Car garages</b> Washing, lubricating, general care Repairing	700	1000	2500	-	-	-
1000	2500	5000	-	-	-	<b>Plane hangars</b> General lighting Training and repairing	500	700	1200	-	-	-
600	1000	2000	-	-	-	<b>Naval docks</b> Merchandise Travelers	150	300	600	-	-	-
70	80	150	-	-	-	<b>Ticket sales</b> General lighting Traveler platforms	300	500	1000	-	-	-
300	600	800	-	-	-	Squares, distributors and lockers Luggage rooms	100	150	300	-	-	-
300	500	1000	-	-	-	<b>OFFICES AND ADMINISTRATIONS</b> Archives	100	200	400	-	-	-
300	500	1000	-	-	-	Book handling, typing, filing areas	300	500	1000	-	-	-
50	100	200	-	-	-	Halls, pass through rooms	150	600	700	-	-	-
150	200	400	-	-	-	<b>SHOPS</b> <b>Malls</b>	300	500	1000	-	-	-
300	500	1000	-	-	-	General lighting Shop windows over commercial streets	1000	3000	5000	-	-	-
3000	4000	5000	-	-	-	Shop windows over no commercial streets	500	1000	2000	-	-	-
300	600	1200	-	-	-	Merchandise shelves	100	200	400	-	-	-
1000	2000	3000	-	-	-	Showcases and glass shelving	1000	2000	3000	-	-	-
1500	2500	4000	-	-	-	Over counters	500	700	1200	-	-	-
200	300	600	-	-	-	<b>Small shops</b>	200	300	500	-	-	-
1000	1500	3000	-	-	-	General lighting Over counters	300	500	700	-	-	-
200	300	600	-	-	-	Shop windows	500	1000	2000	-	-	-
300	500	1000	-	-	-							
500	700	1200	-	-	-							
1000	1500	3000	-	-	-							



## ***LED'S GO PROJECT, S.L***

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