

**PROFESSIONAL LIGHTING**

ILUMINACIÓN PROFESIONAL  
ECLAIRAGE TECHNIQUE PROFESSIONNEL

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*The shadow does not exist; what you call shade is the light you don't see.*

*La sombra no existe; lo que llamamos sombra es la luz que no vemos.*

*L'ombre n'existe pas; ce que nous appelons ombre c'est la lumière qu'on ne voit pas.*

*(Henri Barbusse)*

## Who we are Quiénes somos Qui sommes-nous



We are a team of people with international and highly professional profiles, covering all phases of the lighting and fan business, from design and manufacturing to distribution. We offer a comprehensive and global “package deal”.

Somos un equipo de personas, con vocación internacional y alta profesionalidad, que cubre todas las fases del negocio de la iluminación y ventilación, desde el diseño y la fabricación hasta la distribución, ofreciendo una oferta integrada y global.

Nous sommes une équipe de professionnels à visée internationale et nous couvrons toutes les étapes du secteur du luminaire et de la ventilation, depuis la conception et la fabrication jusqu'à la distribution, présentant une offre globale.





Our expertise stems from over 60 years' experience in identifying where to manufacture with the highest quality standards.

Llevamos más de 60 años detectando dónde producir bajo altos estándares de calidad y tenemos un gran knowhow en ello.

Nous avons passé plus de 60 ans à trouver le secteur où nous pouvions produire selon des standards de qualité élevés et nous avons un grand savoir-faire dans ce domaine.

## Products&Solutions Productos y soluciones Produits & Solutions

Faro Pro are products that have been carefully selected to provide aesthetic and efficient solutions which are easy to install and maintain, and which are environmentally friendly.

Faro PRO es una selección minuciosa de soluciones estéticas, eficientes, de fácil instalación y mantenimiento, comprometidas con el medio ambiente.

Faro PRO sont des produits minutieusement sélectionnés pour vous offrir des solutions esthétiques, efficaces, faciles à installer et à entretenir et respectueuses de l'environnement.



## Quality&testing Calidad y test Qualité & tests

All the products contained in this catalogue have undergone exhaustive tests made at an external laboratory acknowledged worldwide, certifying compliance with EC standards.

Todos nuestros productos han sido sometidos a numerosos ensayos realizados en un laboratorio externo reconocido a nivel internacional, certificando el cumplimiento de las normativas sujetas a la CE.

Tous les produits contenus dans ce catalogue ont été soumis à de nombreux essais réalisés par un laboratoire reconnu sur le plan international qui certifie le respect des normes CE.



## Assembled in Spain Ensamblado en España Assemblé en Espagne

Our goal is to provide quality solutions to our customers. Therefore, our products are assembled in Spain, and they incorporate components from the best European brands: Bridgelux, Vossloh-Schwabe, Philips, ELT, Tridonic, TCI.

Nuestro objetivo es ofrecer soluciones de calidad a nuestros clientes. Por ello, nuestros productos son ensamblados en España e incorporan componentes de las mejores marcas europeas: Bridgelux, Vossloh-Schwabe, Philips, ELT, Tridonic, TCI.

Notre objectif est de fournir des solutions de qualité à nos clients. Par conséquent, nos produits sont assemblés en Espagne et comportent des composants des meilleures marques européennes: Bridgelux, Vossloh-Schwabe, Philips, ELT, Tridonic, TCI.

# In-house laboratory

## Laboratorio interno

## Laboratoire interne

En nuestro propio laboratorio los productos se someten a rigurosos ensayos para comprobar la eficacia, la resistencia al uso, los factores medioambientales y se realizan entre otras pruebas: IP, choques eléctricos, choques de impacto (IK), hilo incandescente, resistencia térmica y mecánica, consumos y factores de potencia, garantizando siempre el cumplimiento de las normativas en vigor. Gracias a estos avances, elevamos el nivel de rigurosidad en nuestros ensayos y garantizamos el estricto cumplimiento de las normativas y estándares europeos.

Tous les produits sont aussi soumis à de rigoureux essais dans nos propres laboratoires afin de vérifier la résistance à l'utilisation, les facteurs environnementaux. Entre autres sont réalisés les tests: IP, les chocs électriques, les chocs d'impact (IK), le fil incandescent, la résistance thermique et mécanique, les consommations et les facteurs de puissance. Grâce à ces avancées, Faro Barcelona élève le niveau de rigueur de ses essais et garantit le strict respect des réglementations et normes européennes.

At our own laboratory, all the products are subject to strict tests in order to check their efficiency, resistance to wear, and environmental factors. Among other tests: IP, electrical shock, impact shocks (IK), incandescent wire, thermal and mechanical resistance, consume and power factors are carried out, thus ensuring permanent compliance with the current legal standards. Thanks to these advances, we have raised the bar regarding the thoroughness of our tests and we can ensure that European regulations and standards are fully complied with.



Salinity Chamber  
Cámara de niebla salina

3D Printer  
Impresora 3D



# Projects Proyectos Projets

RESIDENTIAL | HOTEL | OFFICE | RETAIL | HOSPITALITY

We offer a totally customized service culminating with quality projects that exceed our clients' expectations.

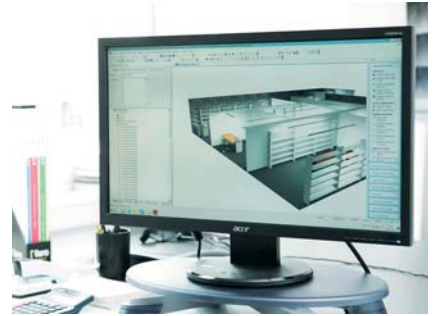
We perform illuminance calculations, 3D design simulations, as well as sustainability and amortization studies. We also monitor the project to the last detail.

Ofrecemos un servicio y una atención totalmente personalizada que culminan con proyectos de calidad que superan las expectativas de nuestros clientes.

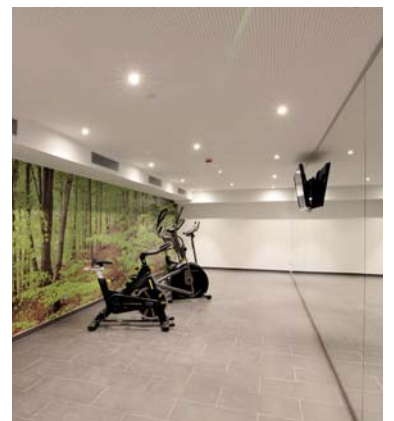
Hacemos cálculos de iluminancias, simulaciones en 3D, estudios de sostenibilidad y amortizaciones. Además, realizamos un seguimiento exhaustivo del proyecto.

Nous offrons un service et une attention entièrement personnalisés, qui se manifestent par des projets de qualité dépassant les attentes de nos clients.

Nous distribuons les luminaires, nous réalisons les calculs d'éclairage, les simulations en 3D, les études de viabilité et d'amortissement. De plus, nous menons un suivi exhaustif du projet.







## Food&Retail lighting module LED



Our mission is to offer new lighting solutions to meet the various needs of our customers. So, in this new edition we present to you FOOD&RETAIL LED LIGHTING MODULE, a new LED module especially created and developed for the lighting of clothes and food (fruit, vegetables, meat and fish).

### **We give life to your products.**

Enhance your products' appearance and boost sales at your store with FOOD&RETAIL LED LIGHTING MODULE. The models in our catalog which incorporate this LED module\* are the best option to enhance the appearance of meat, fish, fruit and vegetables. Besides, the PEARL WHITE LED module will allow you to highlight the shimmer of clothes and accessories at your store.

Nuestra misión es ofrecer nuevas soluciones en iluminación que satisfagan las diferentes necesidades de nuestros clientes. Por ello, en esta nueva edición, os presentamos FOOD&RETAIL LIGHTING MODULE LED, un nuevo módulo de LED creado y desarrollado especialmente para la iluminación de ropa y de alimentos (fruta, verdura, carne y pescado).

### **Damos vida a tus productos.**

Realza la apariencia de tus productos y estimula las compras en tu establecimiento con FOOD&RETAIL LIGHTING MODULE LED.

Los modelos de nuestro catálogo que incorporan este módulo LED\* son la mejor opción para realzar la apariencia de la carne, el pescado, la fruta y las verduras. Además, el módulo LED BLANCO PERLA te permitirá resaltar el brillo de la ropa y accesorios de tu tienda.

Notre mission est d'offrir de nouvelles solutions en illumination qui satisfassent les différents besoins de nos clients. Pour cela, dans cette nouvelle édition, nous vous présentons FOOD&RETAIL LIGHTING MODULE LED, un nouveau module LED créé et développé spécialement pour l'illumination des vêtements et des aliments (fruits, légumes, viande et poisson).

### **Nous donnons de la vie à tes produits.**

Améliore l'apparence des tes produits et stimule les achats dans ton établissement avec FOOD&RETAIL LIGHTING MODULE LED.

Les modèles de notre catalogue qui incorporent ce module LED\* sont les meilleurs produits afin d'améliorer l'apparence de la viande, du poisson, des fruits et des légumes. De plus, le module LED BLANCO PERLA te permettra de mettre en avant le brillant des vêtements et accessoires de ton magasin.

## FOOD LIGHTING LED

ILUMINACIÓN DE ALIMENTOS CON TECNOLOGÍA LED  
ILLUMINATION DES ALIMENTS AVEC LA TECHNOLOGIE LED

Meat, fish, fruit and vegetable may lose their color due to bad lighting. The **FOOD LIGHTING LED MODULE** highlights the freshness, color and gleam of fresh products.

La carne, el pescado, las frutas y las verduras pueden perder color debido a una mala iluminación. El **FOOD LIGHTING MODULE LED** enfatiza la frescura, el color y el brillo de los productos frescos.

La viande, le poisson, les fruits et les légumes peuvent perdre leur couleur à cause d'une mauvaise illumination. Le **FOOD LIGHTING MODULE LED** met l'accent sur la fraîcheur, la couleur et le brillant des produits frais.



### FRUIT&VEGETABLES LED MODULE

The new LED module to light up fruit and vegetables enhances their freshness and colors.

### MÓDULO LED PARA FRUTA Y VERDURA

El nuevo módulo LED para iluminar fruta y verdura acentúa el frescor y realza los colores de estas.

### MÓDULE LED POUR FRUITS ET LEGUMES

Le nouveau module LED pour illuminer les fruits et légumes accentue la fraîcheur et met en valeur les couleurs de ces derniers.

### MEAT LED MODULE

Buyers associate meat's appearance with its freshness and quality. The new LED module makes meat look fresher and more appetizing.

### MÓDULO LED PARA CARNE

Los compradores relacionan la apariencia de la carne con su frescura y calidad. El nuevo módulo LED hace que la carne se muestre más fresca y apetecible.

### MÓDULE LED POUR LA VIANDE

Les consommateurs mettent en relation l'apparence de la viande avec sa fraîcheur et sa qualité. Le nouveau module LED illumine de manière à ce que la viande paraisse plus fraîche et plus appétissante.

### FISH LED MODULE

The new LED module to light up fish enhances ice reflections, making fish look even brighter and fresher.

### MÓDULO LED PARA PESCADO

El nuevo módulo LED para iluminar pescado acentúa los reflejos del hielo, haciendo que el pescado se vea aún más brillante y fresco.

### MÓDULE POUR LE POISSON

Le nouveau module LED pour illuminer le poisson met en valeur les reflets de la glace, grâce à cela le poisson paraît d'autant plus frais et plus brillant.

## RETAIL LIGHTING LED

Lighting plays a key role in creating a special environment, turning your store into a unique space, and improving the overall brand experience. The **PEARL WHITE LED LIGHTING MODULE** adds depth to materials to achieve more intense and attractive colors. The new LED module for the lighting of fashion stores offers an excellent rendering of the colors and textures of clothes and accessories.

## ILUMINACIÓN DE TIENDAS CON TECNOLOGÍA LED

La iluminación juega un papel fundamental en la creación de un ambiente especial, convirtiendo tu tienda en un espacio único y mejorando la experiencia de marca en general. El **PEARL WHITE LIGHTING MODULE LED** añade profundidad a los materiales y consigue colores más intensos y llamativos. El nuevo módulo LED para la iluminación en tiendas de moda ofrece una excelente reproducción de los colores y texturas de ropa y accesorios.

## ILLUMINATION DES MAGASINS AVEC LA TECHNOLOGIE LED

L'illumination a un rôle fondamental dans la création d'une ambiance spéciale, convertissant ton magasin en un espace unique et améliorant l'expérience de marque en général. Le **PEARL WHITE LIGHTING MODULE LED** ajoute de la profondeur aux produits et il obtient des couleurs plus intenses et attrayants. Le nouveau module LED pour l'illumination en magasins de mode offre une excellente reproduction des couleurs et textures des vêtements et accessoires.




# Reading guide

## Guía de lectura

## Guide du lecture

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Description article
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Referencia  
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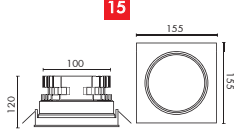


**2** JUNO recessed, fixed luminaire for 15W LED, square  
15W LED recessed luminaire, in aluminium, with 60° reflector and opal ABS diffuser.







**JUNO luminaria empotrable fija para LED 15W en formato cuadrado**  
Luminaria empotrable LED 15W, en aluminio, con reflector de 60° y difusor opal de ABS.

**JUNO Luminaire encastrable fixe pour LED 15W format carré**  
Luminaire encastrable LED 15W, en aluminium, avec réflecteur 60° et diffuseur opale en ABS.

**15**



**3** EPISTAR


IP20   138x138   850°  2-25  0.80 **14**

Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02060101	15	350	885	4000	< 80	60	NOT INCL	072

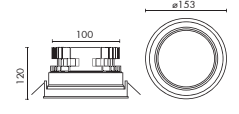
**Recommended Driver**

98310125 normal







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**15**



**3** EPISTAR

IP20   138   850°  2-25  0.80 **14**

Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02060201	15	350	885	4000	< 80	60	NOT INCL	072

**Recommended Driver**

98310125 normal

**16**

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)

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**1** DOWNLIGHT SYSTEM//SISTEMAS EMPOTRABLES//SYSTÈME ENCASTRABLE

- 14 Technical info: IP, class, cut-out, product type, orientability, incandescent wire  
Info técnica: IP, clase, taladro, tipología de producto, orientabilidad, hilo incandescente  
Information technique: IP, classe, perçage, typologie du produit, orientabilité, fils incandescent
- 15 Technical drawing and sizes  
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Lámpara, equipo y fotométricas  
Ampoule, équipement et photométriques

# Photometric data

## Datos fotométricos

## Donées photométriques

### Photometric data

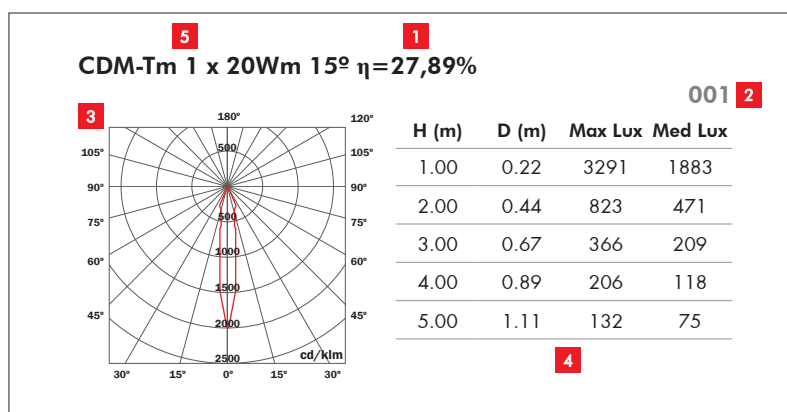
All the photometric data displayed in this catalogue have been made by engineering specialists. (see page 180)

### Datos fotométricos

Todos los datos fotométricos mostrados en este catálogo han sido realizados por una ingeniería especializada. (ver página 180)

### Donées photométriques

Toutes les données photométriques présentées dans ce catalogue ont été réalisées par un cabinet d'ingénierie spécialisée en éclairage. (Voir page 180)



1 Efficiency  
Rendimiento  
Rendement

3 Polar diagram  
Diagrama polar  
Diagramme polaire

5 Bulb  
Lámpara  
Ampoule

2 Photometric code  
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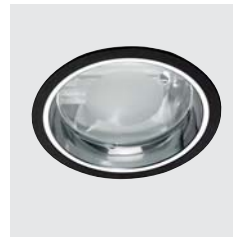
MAGNO 36

## DOWNLIGHT SYSTEM SISTEMAS EMPOTRABLES SYSTÈME ENCASTRABLE

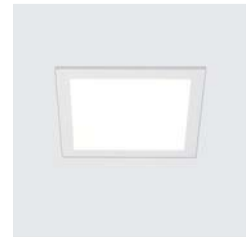
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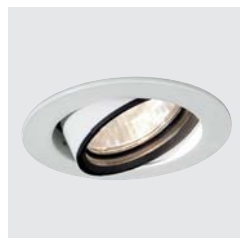
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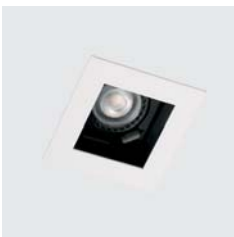
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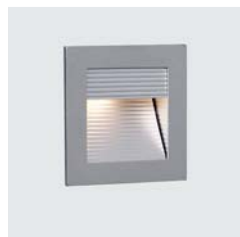
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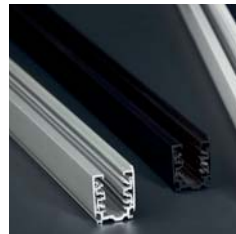
FOKUS 18



CYLINDER **NEW** 28



MAGNO 36



TRACKS  
CARRILES  
RAILS 42



TRACK PROJECTORS  
PROYECTORES DE CARRIL  
PROJECTEURS SUR RAIL





The **FOKUS** series is designed to house multiple light sources. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles. Made from aluminium, with three finishing types: black, white or gray.  
Design: Carles González Cases.

La familia FOKUS está diseñada para poder alojar múltiples fuentes lumínicas. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil. Realizado en aluminio con tres tipos de acabados: blanco, negro y gris.

La famille FOKUS est conçue pour pouvoir loger de multiples sources lumineuses. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible. Réalisé en aluminium avec trois types de finitions: blanches, noires, et grises.

FOKUS was born from Faro Group's commitment with a design school. FaroGroup collaborates with EINA Barcelona design school giving the students the chance to produce their own designs.

FOKUS nace del deseo de FAROGROUP de brindar a un estudiante de diseño la oportunidad de ver en el mercado su propia creación.

FOKUS est né du désir de FARO-GROUP d'offrir à un étudiant en Design, l'opportunité de mettre sur le marché sa création.



Con la colaboración de:  Escola de Disseny i Art

**Maximum versatility**

The spotlight's rail is compatible with the vast majority of brands on the market.

**Máxima versatilidad**

El sistema de anclaje es compatible con la gran mayoría de marcas existentes en el mercado.

**Polyvalence maximale**

Le système de fixation est compatible avec la majorité des marques présentes sur le marché.

**OVERVIEW DETALLES DÉTAILS**



**High-quality materials**

Aluminium body and high-grade aluminium reflectors available in 15, 20, 25, and 50°. Swivable horizontally from 355° to 90°.

**Máxima calidad de los materiales**

Cuerpo de aluminio y reflectores en aluminio de alta pureza disponibles en 15, 20, 25, y 50°. Con rotación de 355° y 90° sobre el plano horizontal.

**Des matériaux de la meilleure qualité**

Corps en aluminium et réflecteurs en aluminium de grande pureté disponibles en 15, 20, 25, et 50°. Avec rotation de 355° et 90° sur le plan horizontal.



### Fácil reposición

La instalación del reflector no necesita de herramientas, facilitando así la reposición de la lámpara.

Se accede a ella girando el embellecedor externo que forma una sola pieza junto al reflector y el cristal protector.



### Easy replacement

Installing the reflector requires no tools, which means that the bulb's easy to replace.

It is accessed by turning the external trim that forms one piece with the reflector and protective glass.



### Remplacement facile

L'installation du réflecteur ne requiert aucun outil, ce qui facilite le remplacement de la lampe.

Pour y accéder, tournez l'enjoliveur externe qui ne forme qu'une seule pièce avec le réflecteur et le verre protecteur.

## ACCESSORIES ACCESORIOS ACCESSOIRES



### Honeycomb louvre

A simple way to avoid glare without losing light output.

### Nido de abeja

Una manera sencilla de evitar el deslumbramiento sin perder rendimiento lumínico.

### Grille type panneau

Une façon simple d'éviter l'éblouissement sans perdre d'intensité lumineuse.



### Directional flaps

Directional to 360° for full control of the beam.

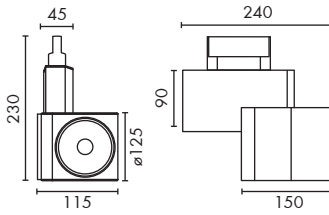
### Aletas direccionales

Direccionales a 360° para controlar totalmente el haz de luz.



### Volets

Peuvent être orientées sur 360° pour une maîtrise totale du faisceau de lumière.



### FOKUS Track-Mounted LED Projector

Aluminium track-mounted LED projector, available with different Watts, with a 20° or 56° reflector. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles. Equipment included.

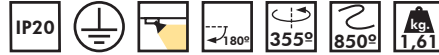
### FOKUS proyector de carril LED

Proyector de carril de aluminio LED disponible en diferentes Watts y con reflector de 20° o 56°. Versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil. Equipo incluido.

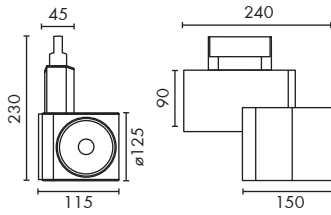
### FOKUS projecteur sur rail LED

Projecteur sur rail, LED, en aluminium, disponible en différents Watts, avec réflecteur 20° o 56°. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible.

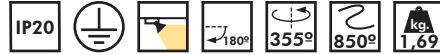
### LED 16W NEW



Ref.	W	Lm	K	CRI	X°	Driver	Photometric
01043101 <input type="checkbox"/>	16	1750	3000	>80	20	INCL.	185
01043102 <input checked="" type="checkbox"/>							
01043103 <input checked="" type="checkbox"/>							
01043201 <input type="checkbox"/>	16	1750	3000	>80	56	INCL.	187
01043202 <input checked="" type="checkbox"/>							
01043203 <input checked="" type="checkbox"/>							
01043301 <input type="checkbox"/>	16	1800	4000	>80	20	INCL.	189
01043302 <input checked="" type="checkbox"/>							
01043303 <input checked="" type="checkbox"/>							
01043401 <input type="checkbox"/>	16	1800	4000	>80	56	INCL.	191
01043402 <input checked="" type="checkbox"/>							
01043403 <input checked="" type="checkbox"/>							
01044201 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	20	INCL.	193
01044202 <input checked="" type="checkbox"/>							
01044203 <input checked="" type="checkbox"/>							
01044301 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	56	INCL.	195
01044302 <input checked="" type="checkbox"/>							
01044303 <input checked="" type="checkbox"/>							
01043501 <input type="checkbox"/>	16	1160	MEAT 4000	70	20	INCL.	197
01043502 <input checked="" type="checkbox"/>							
01043503 <input checked="" type="checkbox"/>							
01043601 <input type="checkbox"/>	16	1160	MEAT 4000	70	56	INCL.	199
01043602 <input checked="" type="checkbox"/>							
01043603 <input checked="" type="checkbox"/>							
01043701 <input type="checkbox"/>	16	1330	FISH 4000	85	20	INCL.	205
01043702 <input checked="" type="checkbox"/>							
01043703 <input checked="" type="checkbox"/>							
01043801 <input type="checkbox"/>	16	1330	FISH 4000	85	56	INCL.	207
01043802 <input checked="" type="checkbox"/>							
01043803 <input checked="" type="checkbox"/>							
01043901 <input type="checkbox"/>	16	1275	FRUIT 4000	85	20	INCL.	201
01043902 <input checked="" type="checkbox"/>							
01043903 <input checked="" type="checkbox"/>							
01044101 <input type="checkbox"/>	16	1275	FRUIT 4000	85	56	INCL.	203
01044102 <input checked="" type="checkbox"/>							
01044103 <input checked="" type="checkbox"/>							



### LED 22/26W NEW



Ref.	W	Lm	K	CRI	X°	Driver	Photometric
01044401 <input type="checkbox"/>							
01044402 <input checked="" type="checkbox"/>	26	2550	3000	>80	20	INCL.	186
01044403 <input checked="" type="checkbox"/>							
01044501 <input type="checkbox"/>							
01044502 <input checked="" type="checkbox"/>	26	2550	3000	>80	56	INCL.	188
01044503 <input checked="" type="checkbox"/>							
01044601 <input type="checkbox"/>							
01044602 <input checked="" type="checkbox"/>	26	2650	4000	>80	20	INCL.	190
01044603 <input checked="" type="checkbox"/>							
01044701 <input type="checkbox"/>							
01044702 <input checked="" type="checkbox"/>	26	2650	4000	>80	56	INCL.	192
01044703 <input checked="" type="checkbox"/>							
01045501 <input type="checkbox"/>							
01045502 <input checked="" type="checkbox"/>	26	2500	<b>PEARL WHITE</b> 3100	85	20	INCL.	194
01045503 <input checked="" type="checkbox"/>							
01045601 <input type="checkbox"/>							
01045602 <input checked="" type="checkbox"/>	26	2500	<b>PEARL WHITE</b> 3100	85	56	INCL.	196
01045603 <input checked="" type="checkbox"/>							
01044801 <input type="checkbox"/>							
01044802 <input checked="" type="checkbox"/>	22	1505	<b>MEAT 4000</b>	70	20	INCL.	198
01044803 <input checked="" type="checkbox"/>							
01044901 <input type="checkbox"/>							
01044902 <input checked="" type="checkbox"/>	22	1505	<b>MEAT 4000</b>	70	56	INCL.	200
01044903 <input checked="" type="checkbox"/>							
01045101 <input type="checkbox"/>							
01045102 <input checked="" type="checkbox"/>	22	1735	<b>FISH 4000</b>	85	20	INCL.	206
01045103 <input checked="" type="checkbox"/>							
01045201 <input type="checkbox"/>							
01045202 <input checked="" type="checkbox"/>	22	1735	<b>FISH 4000</b>	85	56	INCL.	208
01045203 <input checked="" type="checkbox"/>							
01045301 <input type="checkbox"/>							
01045302 <input checked="" type="checkbox"/>	22	1660	<b>FRUIT 4000</b>	85	20	INCL.	202
01045303 <input checked="" type="checkbox"/>							
01045401 <input type="checkbox"/>							
01045402 <input checked="" type="checkbox"/>	22	1660	<b>FRUIT 4000</b>	85	56	INCL.	204
01045403 <input checked="" type="checkbox"/>							

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

FOKUS accessories (See page 27) Accesorios FOKUS (Ver pág. 27) Accessoires FOKUS (Voir page 27)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**FOKUS track projector QR-CB51**

Aluminium carriage projector for QR-CB51 lamp which includes electronic equipment.

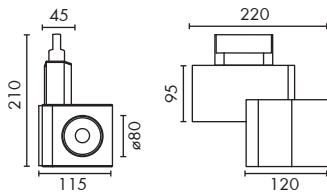
**FOKUS proyector de carril QR-CB51**

Proyector de aluminio para lámpara QR-CB51, que incluye equipo electrónico.

**FOKUS projecteur sur rail QR-CB51**

Projecteur sur rack pour ampoule QR-CB51 en aluminium qui inclue ballast électronique.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
01040201	<input type="checkbox"/>				
01040202	<input checked="" type="checkbox"/>	1 x GU5.3	12	Max. 50	Electronic INCL. 123~129
01040203	<input checked="" type="checkbox"/>				



**FOKUS track projector CDM-R111**

Aluminium track projector for CDM-R111. Includes electronic gear.

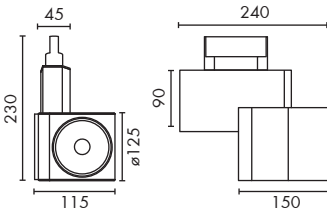
**FOKUS proyector de carril CDM-R111**

Proyector de aluminio para lámpara CDM-R111, con equipo electrónico incluido.

**FOKUS projecteur sur rail CDM-R111**

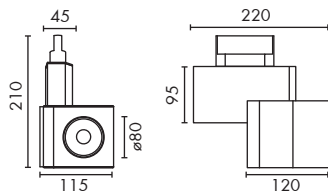
Projecteur sur rail pour ampoule CDM-R111 en aluminium, que inclue ballast électronique.

**CDM-R111**



Ref.	Socket	W	Gear	Photometric
01042101	<input type="checkbox"/>			
01042102	<input checked="" type="checkbox"/>	1 x GX8.5	20	Electronic INCL. 146~147
01042103	<input checked="" type="checkbox"/>			
01041001	<input type="checkbox"/>			
01041002	<input checked="" type="checkbox"/>	1 x GX8.5	35	Electronic INCL. 148~149
01041003	<input checked="" type="checkbox"/>			153~154
01040301	<input type="checkbox"/>			
01040302	<input checked="" type="checkbox"/>	1 x GX8.5	70	Electronic INCL. 150~152
01040303	<input checked="" type="checkbox"/>			155~157





### FOKUS track projector CDM-Tm

Aluminium track projector for CDM-Tm bulb, with 15° beam angle reflector. Includes electronic gear.

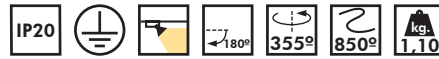
### FOKUS proyector de carril CDM-Tm

Proyector de aluminio para lámpara CDM-Tm, con reflector de 15°, con equipo electrónico incluido.

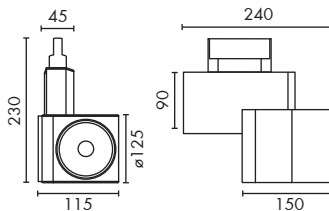
### FOKUS projecteur sur rail CDM-Tm

Projecteur sur rail pour ampoule CDM-Tm en aluminium, avec réflecteur de 15° que inclue ballast électronique.

#### CDM-Tm



Ref.	Socket	W	X°	Gear	Photometric
01040801 <input type="checkbox"/>	1 x PGJ5	20	15	Electronic INCL.	001
01040802 <input checked="" type="checkbox"/>					
01040803 <input checked="" type="checkbox"/>					
01040901 <input type="checkbox"/>	1 x PGJ5	35	15	Electronic INCL.	002
01040902 <input checked="" type="checkbox"/>					
01040903 <input checked="" type="checkbox"/>					



### FOKUS track projector HIT-T

Aluminium track projector for HIT-T bulb, with 20° or 50° beam angle reflector. Includes electronic gear.

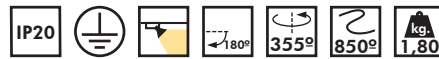
### FOKUS proyector de carril HIT-T

Proyector de aluminio para lámpara HIT-T, con reflector de 20° o 50° con equipo electrónico incluido.

### FOKUS projecteur sur rail HIT-T

Projecteur sur rail pour ampoule HIT-T en aluminium, avec réflecteur de 20° o 50° que inclue ballast électronique.

#### HIT-T



Ref.	Socket	W	X°	Gear	Photometric
01040401 <input type="checkbox"/>	1 x G12	35	20	Electronic INCL.	003
01040402 <input checked="" type="checkbox"/>					
01040403 <input checked="" type="checkbox"/>					
01040501 <input type="checkbox"/>	1 x G12	35	50	Electronic INCL.	004
01040502 <input checked="" type="checkbox"/>					
01040503 <input checked="" type="checkbox"/>					
01040601 <input type="checkbox"/>	1 x G12	70	20	Electronic INCL.	005
01040602 <input checked="" type="checkbox"/>					
01040603 <input checked="" type="checkbox"/>					
01040701 <input type="checkbox"/>	1 x G12	70	50	Electronic INCL.	006
01040702 <input checked="" type="checkbox"/>					
01040703 <input checked="" type="checkbox"/>					
01041901 <input type="checkbox"/>	1 x G12	100	20	Electronic INCL.	007
01041902 <input checked="" type="checkbox"/>					
01041903 <input checked="" type="checkbox"/>					
01042001 <input type="checkbox"/>	1 x G12	100	50	Electronic INCL.	008
01042002 <input checked="" type="checkbox"/>					
01042003 <input checked="" type="checkbox"/>					

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

FOKUS accessories (See page 27) Accesorios FOKUS (Ver pág. 27) Accessoires FOKUS (Voir page 27)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**FOKUS track projector QR-111**

Aluminium track projector for QR-111 lamp which includes electronic equipment.

**FOKUS proyector de carril QR-111**

Proyector de aluminio para lámpara QR-111, que incluye equipo electrónico.

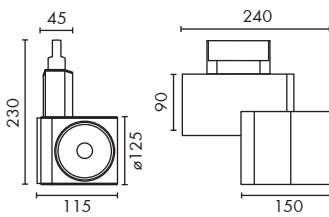
**FOKUS projecteur sur rail QR-111**

Projecteur sur rack en aluminium pour ampoule QR-111 qui inclue ballast électronique.

**QR-111**



Ref.	Socket	V	W	Gear	Photometric
01040101					
01040102	1 x G53	12	Max. 100	Electronic INCL.	130~145
01040103					



**FOKUS track projector QR-111 LED**

Aluminium track projector for QR-111 LED lamp which includes electronic equipment.

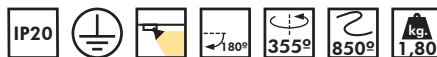
**FOKUS proyector de carril QR-111 de LED**

Proyector de aluminio para lámpara QR-111 de LED, que incluye equipo electrónico.

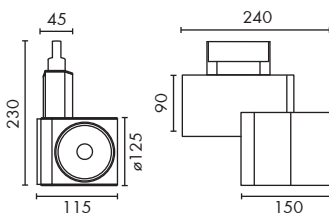
**FOKUS projecteur sur rail QR-111 LED**

Projecteur sur rack en aluminium pour ampoule QR-111 LED qui inclue ballast électronique.

**QR-111 LED**



Ref.	Socket	W	V	Driver	Photometric
01041501					
01041502	1 x G53	5...25	12 VAC	Electronic INCL.	175~178
01041503					



Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

FOKUS accessories (See page 27) Accesorios FOKUS (Ver pág. 27) Accessoires FOKUS (Voir page 27)

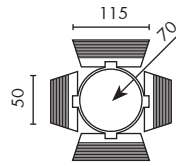
\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)

ACCESSORIES ACCESORIOS ACCESSOIRES



**Directional flaps**  
Aletas direccionales  
Volets

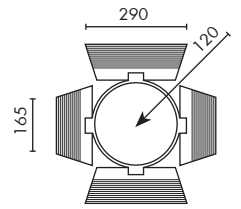
**FOKUS P**



Ref.

01992101   
01992402

**FOKUS G**



Ref.

01992301   
01992502



**Honeycomb louvre**  
Acc. nido de abeja  
Grille type panneau

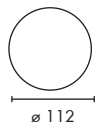
**FOKUS P**



Ref.

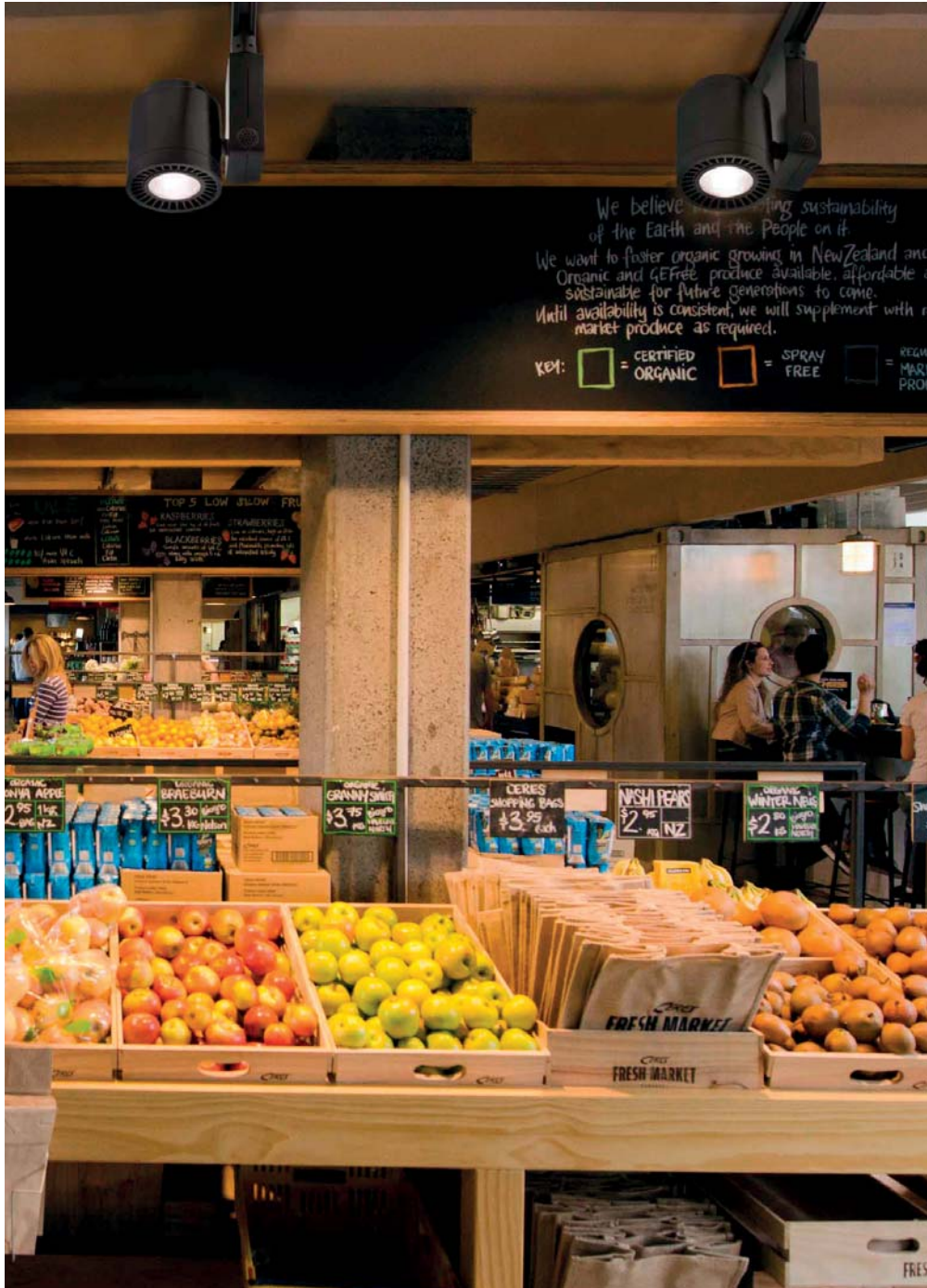
01992001

**FOKUS G**



Ref.

01992002





**CYLINDER** is a series of projectors designed to store different light sources. In black and White, made from aluminium. Available version with LED module for food lighting (fruit, vegetables, meat and fish) and stores. Includes aluminium reflector, 20° and 56°.

CYLINDER es una familia de proyectores diseñados para poder alojar diferentes fuentes lumínicas. En blanco y negro, está fabricado en aluminio. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y de tiendas. Incluye reflector de aluminio de 20° y 56°.

CYLINDER est une famille de projecteurs conçus pour pouvoir loger différentes sources lumineuses. En noir et blanc, il est fabriqué en aluminium. Version avec module LED disponible, pour l'illumination des aliments (fruits, légumes, viande et poisson) et de magasins. Cela inclut un réflecteur en aluminium de 20° et de 56°.

### **Gear Tray Design**

Cylinder's gear tray presents a compact, screw-free design.

### **Diseño del portaequipos**

El portaequipos de Cylinder presenta un diseño compacto y sin tornillos.

### **Design du coffret d'appareillage**

Le coffret d'appareillage de Cylinder présente un design compact et sans vis.

### **OVERVIEW** DETALLES DÉTAILS



### **Maximum Durability**

The heatsink which surrounds the reflector is designed to promote air circulation, ensuring optimal work temperature and maximum lamp service life.

### **Máxima durabilidad**

El disipador que rodea el reflector está diseñado para facilitar la circulación del aire, asegurando una temperatura óptima de trabajo y garantizando la máxima vida útil de la lámpara.

### **Durabilité Maximum**

Le dissipateur qui entoure le réflecteur est conçu pour faciliter la circulation de l'air, assurant une température optimale de travail et garantissant une durée de vie maximum de la lampe.

### **Versatility**

Cylinder presents a structure that is prepared to house different light sources, ensuring the lamp's versatility and allowing it to adapt to different lighting requirements.

### **Versatilidad**

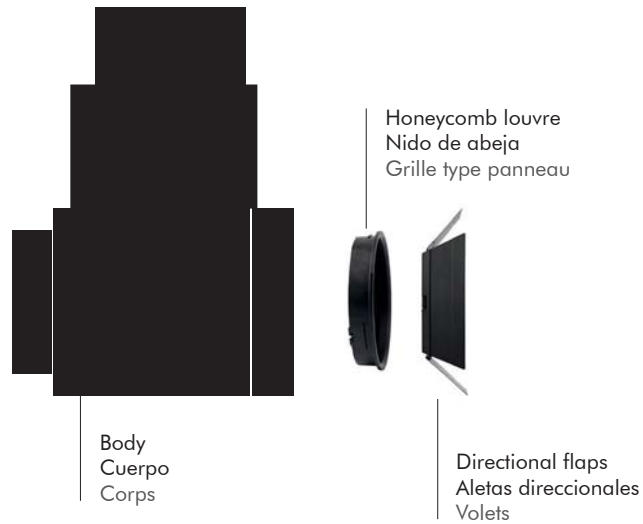
Cylinder presenta una estructura que está preparada para alojar diferentes fuentes lumínicas garantizando la versatilidad del aparato y permitiendo adaptarse a las diferentes necesidades de iluminación.

### **Versatilité**

Cylinder présente une structure qui est préparée pour loger différentes sources lumineuses garantissant la versatilité de l'appareil et lui permettant de s'adapter aux différents besoins d'illumination.

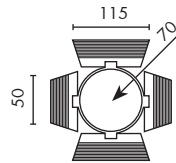


**ACCESSORIES** ACCESORIOS ACCESSOIRES



**Directional flaps**  
Aletas direccionales  
Volets

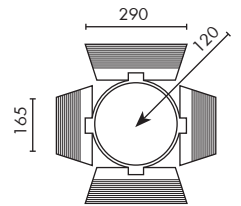
**CYLINDER P**



Ref.

- 01992101
- 01992402

**CYLINDER G**



Ref.

- 01992301
- 01992502



**Honeycomb louvre**  
Acc. nido de abeja  
Grille type panneau

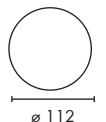
**CYLINDER P**



Ref.

- 01992001

**CYLINDER G**



Ref.

- 01992002



**CYLINDER Track Mounted LED Projector**

Aluminium track-mounted LED projector, available with different Watts and 20° or 56° reflector. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles. Equipment included.

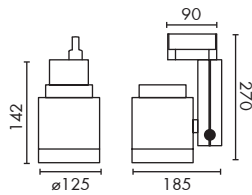
**CYLINDER proyector de carril LED**

Proyector de carril de aluminio LED disponible en diferentes Watts y con reflector de 20° o 56°. Versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil. Equipo incluido.

**CYLINDER projecteur sur rail LED**

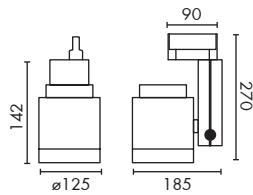
Projecteur LED sur rail, en aluminium, disponible en différents Watts et avec réflecteur de 20° ou 56°. Version avec module LED pour l'illumination des aliments (fruits, légumes, viande et poisson) et textiles. Equipement inclus.

**LED 16W NEW**



Ref.	W	Lm	K	CRI	Xº	Driver	Photometric
01063101 <input type="checkbox"/>	16	1750	3000	>80	20	INCL.	185
01063102 <input checked="" type="checkbox"/>							
01063201 <input type="checkbox"/>	16	1750	3000	>80	56	INCL.	187
01063202 <input checked="" type="checkbox"/>							
01063301 <input type="checkbox"/>	16	1800	4000	>80	20	INCL.	189
01063302 <input checked="" type="checkbox"/>							
01063401 <input type="checkbox"/>	16	1800	4000	>80	56	INCL.	191
01063402 <input checked="" type="checkbox"/>							
01064201 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	20	INCL.	193
01064202 <input checked="" type="checkbox"/>							
01064301 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	56	INCL.	195
01064302 <input checked="" type="checkbox"/>							
01063501 <input type="checkbox"/>	16	1160	MEAT 4000	70	20	INCL.	197
01063502 <input checked="" type="checkbox"/>							
01063601 <input type="checkbox"/>	16	1160	MEAT 4000	70	56	INCL.	199
01063602 <input checked="" type="checkbox"/>							
01063701 <input type="checkbox"/>	16	1330	FISH 4000	85	20	INCL.	205
01063702 <input checked="" type="checkbox"/>							
01063801 <input type="checkbox"/>	16	1330	FISH 4000	85	56	INCL.	207
01063802 <input checked="" type="checkbox"/>							
01063901 <input type="checkbox"/>	16	1275	FRUIT 4000	85	20	INCL.	201
01063902 <input checked="" type="checkbox"/>							
01064101 <input type="checkbox"/>	16	1275	FRUIT 4000	85	56	INCL.	203
01064102 <input checked="" type="checkbox"/>							





### LED 22/26W NEW



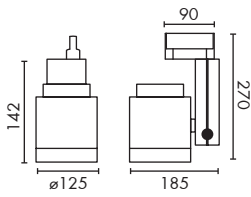
Ref.	W	Lm	K	CRI	X°	Driver	Photometric
01064401 <input type="checkbox"/>	26	2550	3000	>80	20	INCL.	186
01064402 <input checked="" type="checkbox"/>							
01064501 <input type="checkbox"/>	26	2550	3000	>80	56	INCL.	188
01064502 <input checked="" type="checkbox"/>							
01064601 <input type="checkbox"/>	26	2650	4000	>80	20	INCL.	190
01064602 <input checked="" type="checkbox"/>							
01064701 <input type="checkbox"/>	26	2650	4000	>80	56	INCL.	192
01064702 <input checked="" type="checkbox"/>							
01065501 <input type="checkbox"/>	26	2500	PEARL WHITE 3100	85	20	INCL.	194
01065502 <input checked="" type="checkbox"/>							
01065601 <input type="checkbox"/>	26	2500	PEARL WHITE 3100	85	56	INCL.	194
01065602 <input checked="" type="checkbox"/>							
01064801 <input type="checkbox"/>	22	1505	MEAT 4000	70	20	INCL.	198
01064802 <input checked="" type="checkbox"/>							
01064901 <input type="checkbox"/>	22	1505	MEAT 4000	70	56	INCL.	200
01064902 <input checked="" type="checkbox"/>							
01065101 <input type="checkbox"/>	22	1735	FISH 4000	85	20	INCL.	206
01065102 <input checked="" type="checkbox"/>							
01065201 <input type="checkbox"/>	22	1735	FISH 4000	85	56	INCL.	208
01065202 <input checked="" type="checkbox"/>							
01065301 <input type="checkbox"/>	22	1660	FRUIT 4000	85	20	INCL.	202
01065302 <input checked="" type="checkbox"/>							
01065401 <input type="checkbox"/>	22	1660	FRUIT 4000	85	56	INCL.	204
01065402 <input checked="" type="checkbox"/>							

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



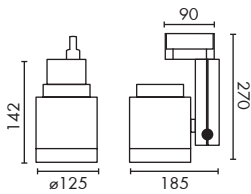
**QR 111 NEW**



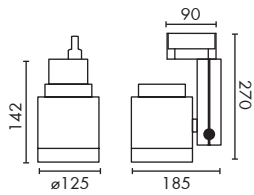
Ref.	Socket	V	W	Gear	Photometric
01060201	<input type="checkbox"/>	1xG53	12	Max. 100	Electronic INCL. 130~145
01060202	<input checked="" type="checkbox"/>				



**QR LED NEW**



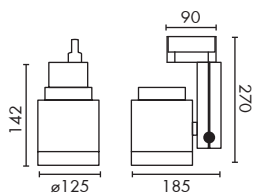
Ref.	Socket	V	W	Gear	Photometric
01065701	<input type="checkbox"/>	1xG53	12	5...25	Electronic INCL. 175~178
01065702	<input checked="" type="checkbox"/>				



### CDM-R111 NEW



Ref.	Socket	W	Gear	Photometric
01062101 <input type="checkbox"/>	GX8.5	20	Electronic INCL.	146-147
01062102 <input type="checkbox"/>				
01061001 <input type="checkbox"/>	GX8.5	35	Electronic INCL.	148-149 153-154
01061002 <input type="checkbox"/>				
01060301 <input type="checkbox"/>	GX8.5	70	Electronic INCL.	150-152 155-157
01060302 <input type="checkbox"/>				



### HIT-T NEW



Ref.	Socket	W	Xº	Gear	Photometric
01060401 <input type="checkbox"/>	G12	35	12	Electronic INCL.	003
01060402 <input type="checkbox"/>					
01060501 <input type="checkbox"/>	G12	35	38	Electronic INCL.	004
01060502 <input type="checkbox"/>					
01060601 <input type="checkbox"/>	G12	70	12	Electronic INCL.	005
01060602 <input type="checkbox"/>					
01060701 <input type="checkbox"/>	G12	70	38	Electronic INCL.	006
01060702 <input type="checkbox"/>					

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





The **MAGNO** series of projectors is designed to house light sources. The models for discharge lamps include a high pure aluminium reflector in 12°, 24° or 38°. The body of the projector is made in aluminium. All the models are available in three paint finish: white, black or grey.

La familia de proyectores MAGNO está diseñada para poder alojar diferentes fuentes lumínicas. Los modelos para lámparas de descarga incluyen reflector de aluminio de alta pureza disponible en 12°, 24° o 38°.

El cuerpo del proyector está fabricado en aluminio. Todos los modelos están disponibles en tres acabados de pintura: blanco, negro o gris.

La famille de projecteurs MAGNO est conçue afin de loger des sources de lumière. Les modèles pour ampoules à décharge incluent un réflecteur en aluminium haute pureté en 12°, 24° ou 38°.

Le corps du projecteur est fabriqué en aluminium. Tous les modèles sont disponibles en trois finitions de peinture: blanc, noir ou gris.

OVERVIEW DETALLES DÉTAILS

**Maximum durability**

The body of the projector is designed to facilitate the air flow, ensuring thus an optimum working temperature in order to guarantee a long life, both to the equipment as to the lamp.

**Máxima durabilidad**

El cuerpo del proyector está diseñado para facilitar la circulación de aire asegurando así una temperatura óptima de trabajo para garantizar la máxima vida útil tanto del equipo como de la lámpara.



**Durabilité maximale**

Le corps du projecteur est conçu pour faciliter la circulation de l'air en assurant ainsi une température de travail optimale afin de garantir la durée de vie maximum de l'équipement ainsi que de la ampoule.



**Substitution of lamps**

In all the MAGNO models the lamp is reached by twisting the trim that the protecting glass features, facilitating thus its substitution.

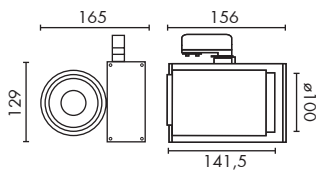


**Reposición de lámparas**

En todos los modelos de se accede a la lámpara girando el embellecedor que incorpora el cristal protector, facilitando así su reposición.

**Remplacement des ampoules**

Sur tous les modèles on accède à la ampoule en faisant tourner l'enjoliveur qui incorpore le verre protecteur, facilitant ainsi son remplacement.



### MAGNO track projector HIT-T

Aluminium track projector for HIT-T bulb, with 12° or 38° beam angle reflector. Includes electronic gear.

### MAGNO proyector de carril HIT-T

Proyector de carril para lámpara HIT-T de aluminio, con reflector de 12° o 38° que incluye equipo electrónico.

### MAGNO projecteur sur rail HIT-T

Projecteur sur rail pour ampoule HIT-T en aluminium, avec réflecteur de 12° ou 38° qui inclue ballast électronique.

### HIT-T

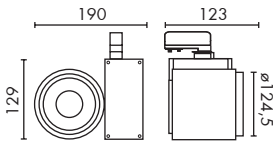


Ref.	Socket	W	Lm	X°	Gear	Photometric
01010401 <input type="checkbox"/>						
01010402 <input checked="" type="checkbox"/>	1 x G12	35	3300	12	Electronic INCL.	011
01010403 <input checked="" type="checkbox"/>						
01010501 <input type="checkbox"/>						
01010502 <input checked="" type="checkbox"/>	1 x G12	35	3300	38	Electronic INCL.	012
01010503 <input checked="" type="checkbox"/>						
01010601 <input type="checkbox"/>						
01010602 <input checked="" type="checkbox"/>	1 x G12	70	6600	12	Electronic INCL.	013
01010603 <input checked="" type="checkbox"/>						
01010701 <input type="checkbox"/>						
01010702 <input checked="" type="checkbox"/>	1 x G12	70	6600	38	Electronic INCL.	014
01010703 <input checked="" type="checkbox"/>						
01011101 <input type="checkbox"/>						
01011102 <input checked="" type="checkbox"/>	1 x G12	100	9500	12	Electronic INCL.	015
01011103 <input checked="" type="checkbox"/>						
01011201 <input type="checkbox"/>						
01011202 <input checked="" type="checkbox"/>	1 x G12	100	9500	38	Electronic INCL.	016
01011203 <input checked="" type="checkbox"/>						

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**MAGNO track projector QR-111**

Aluminium carriage projector for QR-111 lamp which includes electronic equipment.

**MAGNO proyector de carril QR-111**

Proyector de carril de aluminio para lámpara QR-111 que incluye equipo electrónico.

**MAGNO projecteur sur rail QR-111**

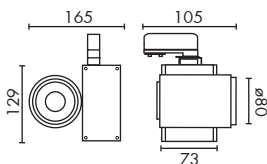
Projecteur sur rail en aluminium pour ampoule QR-111 qui inclue ballast électronique.

**QR-111**



Ref.	Socket	V	W	Gear	Photometric
01010101					
01010102	1 x G53	12	Max. 100	Electronic INCL.	123~145
01010103					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



**MAGNO track projector QR-CB51**

Aluminium carriage projector for QR-CB51 lamp which includes electronic equipment.

**MAGNO proyector de carril QR-CB51**

Proyector de carril para lámpara QR-CB51 de aluminio, que incluye equipo electrónico.

**MAGNO projecteur sur rail QR-CB51**

Projecteur sur rail pour ampoule QR-CB51 en aluminium qui inclue ballast électronique.

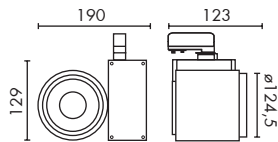
**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
01010201					
01010202	1 x GU5.3	12	Max. 50	Electronic INCL.	123~129
01010203					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock





#### MAGNO track projector CDM-R111

Proyector de carril para lámpara CDM-R111 de aluminio, que incluye equipo electrónico.

#### MAGNO proyector de carril CDM-R111

Proyector de carril para lámpara CDM-R111 de aluminio, que incluye equipo electrónico.

#### MAGNO projecteur sur rail CDM-R111

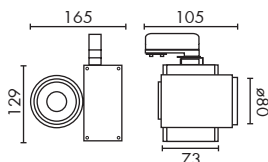
Projecteur sur rail pour ampoule CDM-R111 en aluminium, que inclut ballast électronique.

#### CDM-R111



Ref.	Socket	V	X°	Gear	Photometric
01011001					
01011002	1 x GX8.5	35	24 / 40	Electronic INCL.	148-154
01011003					
01010301					
01010302	1 x GX8.5	70	10 / 24	Electronic INCL.	150-156
01010303					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



#### MAGNO track projector CDM-Tm

Aluminium track projector for CDM-Tm bulb, with 12° or 24° beam angle reflector. Includes electronic gear.

#### MAGNO proyector de carril CDM-Tm

Proyector de carril para lámpara CDM-Tm de aluminio, con reflector de 12° o 24° que incluye equipo electrónico.

#### MAGNO projecteur sur rail CDM-Tm

Projecteur sur rail pour ampoule CDM-Tm en aluminium, avec réflecteur de 12° o 24° qui inclut électronique.

#### CDM-Tm



Ref.	Socket	W	X°	Gear	Photometric
01010801					
01010802	1 x PGJ5	20	12	Electronic INCL.	009
01010803					
01010901					
01010902	1 x PGJ5	20	24	Electronic INCL.	010
01010903					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock

Track accessories (See page 42) Accesorios carril (Ver pág. 42) Accessoires rail (Voir page 42)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)

**TRACKS  
& ACCESSORIES**

**CARRILES  
Y ACCESORIOS**

**RAILS  
ET ACCESSOIRES**



# 3 phase track, 16A

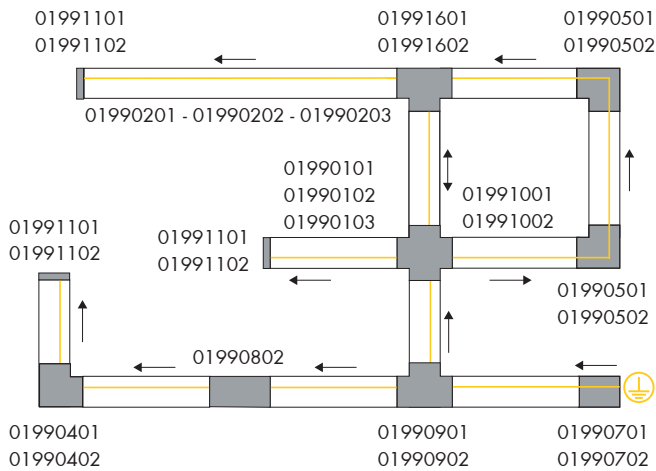
## Carril trifásico, 16A

### Rail triphasé, 16A



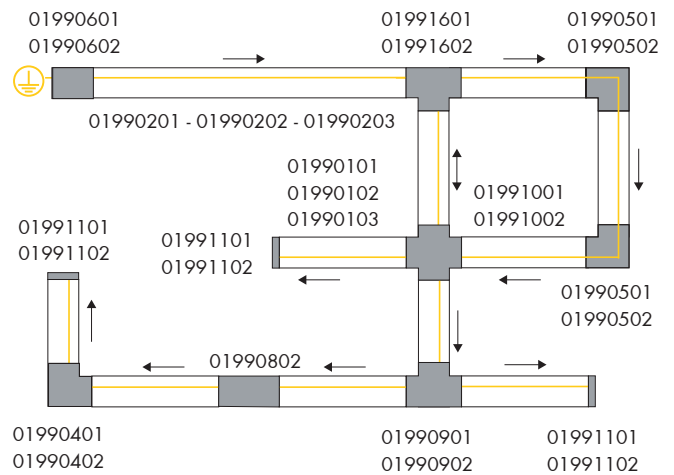
#### RIGHT MAIN SUPPLY INSTALLATION

INSTALACIÓN CON CABEZAL DE ALIMENTACIÓN A DERECHA  
INSTALLATION AVEC TÊTE D'ALIMENTATION DROITE



#### LEFT MAIN SUPPLY INSTALLATION

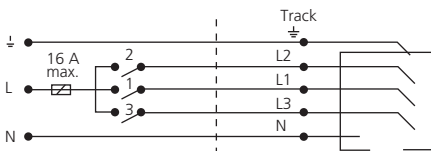
INSTALACIÓN CON CABEZAL DE ALIMENTACIÓN A IZQUIERDA  
INSTALLATION AVEC TÊTE D'ALIMENTATION GAUCHE



#### CONNECTION SKETCH

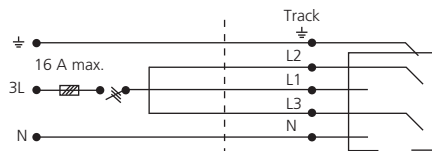
ESQUEMAS DE CONEXIÓN  
SCHEMA DE CONNECTION

##### 1 Circuit 1 Circuito 1 Circuit



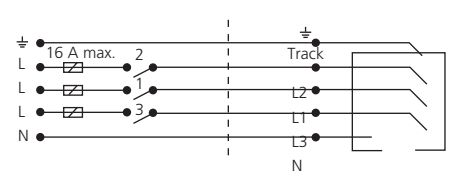
N-conductor  $i = 16$  A max

##### 2 Circuitos 2 Circuits 2 Circuits



N-conductor  $i = 16$  A max

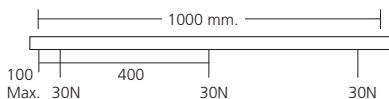
##### 3 Circuitos 3 Circuits 3 Circuits



$L1+L2+L3$   $i = 16$  A max

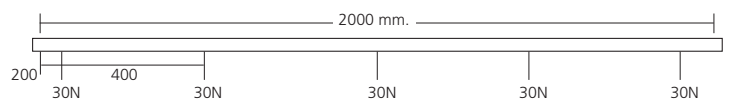
#### RECOMMENDED DISTANCE BETWEEN FIXAGE

DISTANCIA RECOMENDADA ENTRE FIJACIONES  
DISTANCE RECOMMANDÉE ENTRE FIXATIONS



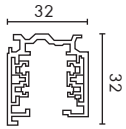
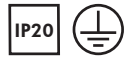
Maximum weight: 9 Kg  
Peso máximo: 9 Kg  
Poids maximum: 9 Kg

Max. 3 projectors = 3.8 KVA  
Máx. 3 proyectores = 3.8 KVA  
Max. 3 projecteurs = 3.8 KVA



Maximum weight: 15 Kg  
Peso máximo: 15 Kg  
Poids maximum: 15 Kg

Max. 5 projectors = 3.8 KVA  
Máx. 5 proyectores = 3.8 KVA  
Max. 5 projecteurs = 3.8 KVA

**3 phase track****Carril trifásico****Rail triphasé**

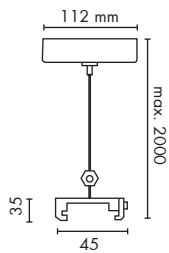
Ref.	Length	Kg.
01990101 <input type="checkbox"/>	1000 mm	0,92
01990102 <input checked="" type="checkbox"/>		
01990103 <input checked="" type="checkbox"/>		
01990201 <input type="checkbox"/>	2000 mm	1,85
01990202 <input checked="" type="checkbox"/>		
01990203 <input checked="" type="checkbox"/>		



**Pendant kit**  
Aluminium body and steel wire. Top weight: 270N

**Kit de suspensión**  
Cuerpo de aluminio y cable de acero. Peso máximo: 270N

**Kit de suspension**  
Corps en aluminium et câble en acier. Poids maximum: 270N



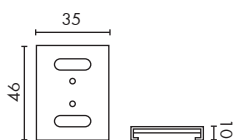
Ref.	Length	Kg.
01990301 <input type="checkbox"/>	Max. 2000 mm	0,24
01990302 <input checked="" type="checkbox"/>		
01990303 <input checked="" type="checkbox"/>		



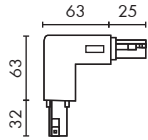
**Ceiling kit**  
Aluminium body.

**Soporte de techo**  
Cuerpo de aluminio.

**Support plafond**  
Corps en aluminium.



Ref.	Kg.
01991201 <input type="checkbox"/>	0,24
01991202 <input checked="" type="checkbox"/>	



**"L" joint**

Policarbonate body. Watt max. 3,8 Kw.

**Junta en "L"**

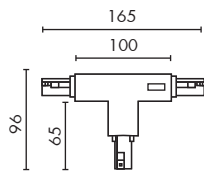
Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Union en "L"**

Corps en polycarbonate. Watt max. 3,8 Kw.



Ref.	Kg.
<b>Izquierda Left Gauche</b>	
01990501 <input type="checkbox"/>	0,098
01990502 <input checked="" type="checkbox"/>	
<b>Derecha Right Droite</b>	
01990401 <input type="checkbox"/>	0,098
01990402 <input checked="" type="checkbox"/>	



**"T" intermediate joint**

Policarbonate body. Watt max. 3,8 Kw.

**Conector intermedio en "T"**

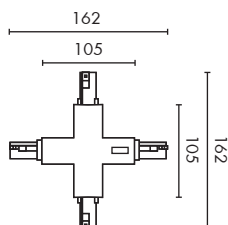
Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Union intermédiaire en "T"**

Corps en polycarbonate. Watt max. 3,8 Kw.



Ref.	Kg.
<b>Izquierda Left Gauche</b>	
01991601 <input type="checkbox"/>	0,14
01991602 <input checked="" type="checkbox"/>	
<b>Derecha Right Droite</b>	
01990901 <input type="checkbox"/>	0,14
01990902 <input checked="" type="checkbox"/>	



**Cross joint**

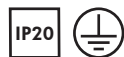
intermediate  
Policarbonate body. Watt max. 3,8 Kw.

**Conector intermedio en cruz**

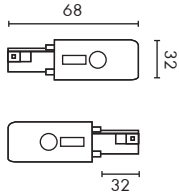
Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Union intermédiaire en croix**

Corps en polycarbonate. Watt max. 3,8 Kw.



Ref.	Kg.
01991001 <input type="checkbox"/>	0,18
01991002 <input checked="" type="checkbox"/>	



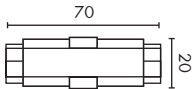
**Main supply**  
Polycarbonate body. Watt  
máx. 3,8 Kw).

**Cabezal de alimenta-  
ción**  
Cuerpo en policarbonato.  
Watt máx. 3,8 Kw).

**Tête d'alimentation**  
Corps en polycarbonate.  
Watt máx. 3,8 Kw).



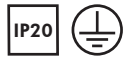
Ref.	Kg.
<b>Izquierda Left Gauche</b>	
01990601 <input type="checkbox"/>	0,07
01990602 <input checked="" type="checkbox"/>	
<b>Derecha Right Droite</b>	
01990701 <input type="checkbox"/>	0,07
01990702 <input checked="" type="checkbox"/>	



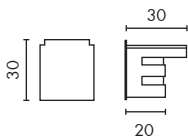
**Intermediate joint**  
Polycarbonate body. Watt  
máx. 3,8 Kw.

**Conector intermedio**  
Cuerpo en policarbonato.  
Watt máx. 3,8 Kw.

**Union intermédiaire**  
Corps en polycarbonate.  
Watt máx. 3,8 Kw.



Ref.	Kg.
01990802 <input checked="" type="checkbox"/>	0,024

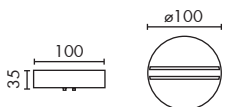


**End cap without power**  
Polycarbonate body. Watt  
max. 3,8 Kw.

**Cabezal de cierre**  
Cuerpo en policarbonato.  
Watt máx. 3,8 Kw.

**Tête de fermeture**  
Corps en polycarbonate.  
Watt max. 3,8 Kw.

Ref.	Kg.
01991101 <input type="checkbox"/>	0,008
01991102 <input checked="" type="checkbox"/>	



**Base for surface**  
Accessory to install your  
spotlight individually with  
no need for a rail.

**Base superficie**  
Accesorio para instalar  
el proyector de manera  
individual sin necesidad  
de carril.

**Patère de fixation**  
Accessoire pour installer  
le projecteur de façon  
individuelle sans rail.

### PC-213



Ref.	Kg.
01991301 <input type="checkbox"/>	0,20
01991302 <input checked="" type="checkbox"/>	
01991303 <input checked="" type="checkbox"/>	

# Recessed 3 phase track, 16A

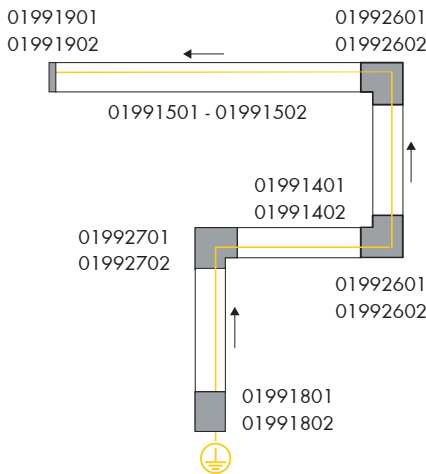
## Carril trifásico empotrable, 16A

### Rail à encastrer triphasé, 16A



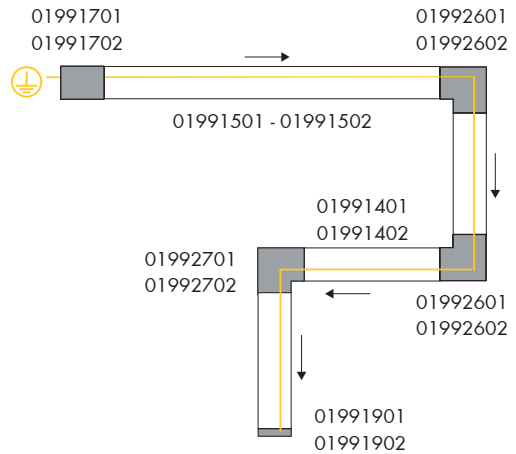
#### RIGHT MAIN SUPPLY INSTALLATION

INSTALACIÓN CON CABEZAL DE ALIMENTACIÓN A DERECHA  
INSTALLATION AVEC TÊTE D'ALIMENTATION DROITE



#### LEFT MAIN SUPPLY INSTALLATION

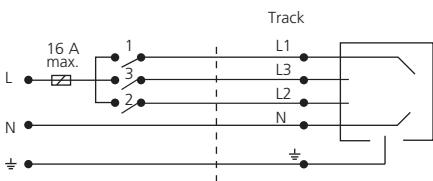
INSTALACIÓN CON CABEZAL DE ALIMENTACIÓN A IZQUIERDA  
INSTALLATION AVEC TÊTE D'ALIMENTATION GAUCHE



#### CONNECTION SKETCH

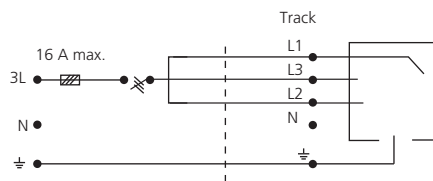
ESQUEMAS DE CONEXIÓN  
SCHÉMA DE CONNECTION

##### 1 Circuit 1 Circuito 1 Circuit



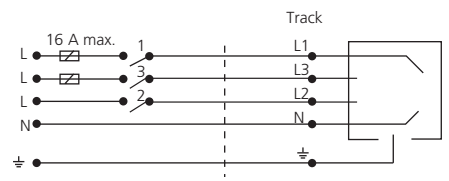
N-conductor  $i = 16$  A max

##### 2 Circuitos 2 Circuits 2 Circuits



N-conductor  $i = 16$  A max

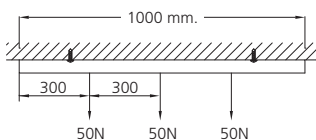
##### 3 Circuitos 3 Circuits 3 Circuits



$L1+L2+L3$   $i = 16$  A max

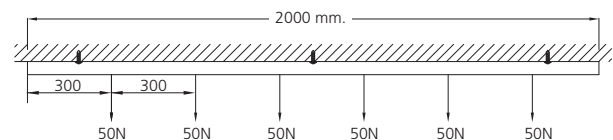
#### RECOMMENDED DISTANCE BETWEEN FIXAGE

DISTANCIA RECOMENDADA ENTRE FIJACIONES  
DISTANCE RECOMMANDÉE ENTRE FIXATIONS



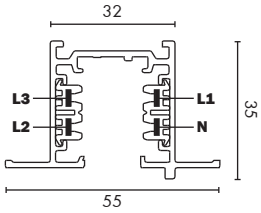
Maximum weight: 9 Kg  
Peso máximo: 9 Kg  
Poids maximum: 9 Kg

Max. 3 projectors = 3.8 KVA  
Máx. 3 proyectores = 3.8 KVA  
Max. 3 projecteurs = 3.8 KVA



Maximum weight: 15 Kg  
Peso máximo: 15 Kg  
Poids maximum: 15 Kg

Max. 5 projectors = 3.8 KVA  
Máx. 5 proyectores = 3.8 KVA  
Max. 5 projecteurs = 3.8 KVA

**Recessed 3 phase track****Carril empotrable trifásico****Rail à encastrer triphasé**

Ref.	Length	Kg.	
01991401 <input type="checkbox"/>	1000 mm	1,2	37 x 1083 mm
01991402 <input checked="" type="checkbox"/>			
01991501 <input type="checkbox"/>	2000 mm	1,8	37 x 2083 mm
01991502 <input checked="" type="checkbox"/>			

**"L" joint**

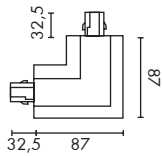
Policarbonate body. Watt max. 3,8 Kw.

**Junta en "L"**

Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Union en "L"**

Corps en polycarbonate. Watt max. 3,8 Kw.



Ref.	Kg.	Ref.	Kg.
<b>Izquierda Left Gauche</b>		<b>Derecha Right Droite</b>	
01992601 <input type="checkbox"/>	0,20	01992701 <input type="checkbox"/>	0,20
01992602 <input checked="" type="checkbox"/>		01992702 <input checked="" type="checkbox"/>	

**Main supply**

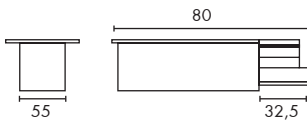
Policarbonate body. Watt max. 3,8 Kw.

**Cabezal de alimentación**

Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Tête d'alimentation**

Corps en polycarbonate. Watt max. 3,8 Kw.



Ref.	Kg.	Ref.	Kg.
<b>Izquierda Left Gauche</b>		<b>Derecha Right Droite</b>	
01991701 <input type="checkbox"/>	0,13	01991801 <input type="checkbox"/>	0,13
01991702 <input checked="" type="checkbox"/>		01991802 <input checked="" type="checkbox"/>	

**Intermediate joint**

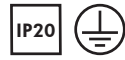
Policarbonate body. Watt máx. 3,8 Kw.

**Conector intermedio**

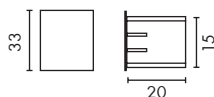
Cuerpo en policarbonato. Watt máx. 3,8 Kw.

**Union intermédiaire**

Corps en polycarbonate. Watt máx. 3,8 Kw.



Ref.	Kg.
01992802 <input checked="" type="checkbox"/>	0,024

**Ceiling kit for recessed, 2 units****Sujeción techo, 2 ud.****Support à encastrer, 2 unités**

Ref.	Kg.
01991901 <input type="checkbox"/>	0,22
01991902 <input checked="" type="checkbox"/>	

**Ceiling kit for recessed, 2 units****Sujeción techo, 2 ud.****Support à encastrer, 2 unités**

Ref.	Kg.
01991600	0,15



**RECESSED TRACK**  
CARRIL EMPOTRABLE  
RAIL À ENCASTRER

Drill the appropriate hole in the installation surface.

Realizar el hueco necesario en la superficie de montaje.

Réaliser le trou nécessaire dans la surface de montage.



Insert the rail in the hole.

Introducir el carril en el hueco.

Introduire le rail dans le trou.



The fastener remains on the inside.

La pieza de fijación queda en el interior.

La pièce de fixation reste à l'intérieur.



Turn the fastener into place with a screwdriver.

Al girar el destornillador la pieza de fijación cambia de posición.

Lorsque l'on tourne le tournevis, la pièce de fixation change de position.

The fastener abutts the ceiling firmly holding the rail.

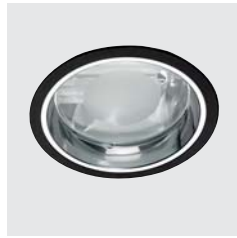
La pieza de fijación hace tope con el techo, sujetando así, firmemente el carril.

La pièce de fixation s'appuie sur le plafond tenant ainsi fermement le rail.

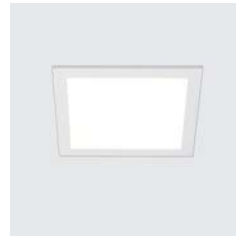




SOLID 52



ATOM 58



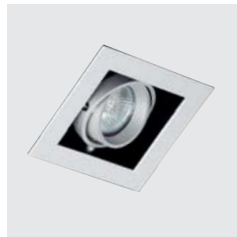
HORMA 64



GINGKO 82



MORRIS 88



FALCON 94



COMPACT NEW 112



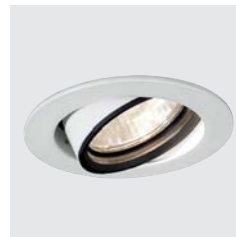
JUNO 116



NEU,ARTIC, NEW YES 120



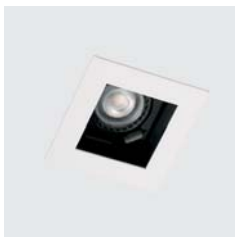
OPTIC NEW 68



OLIMPO 72



PASCAL 78



MAYER 100



KANT 104



LYNX & NUSA NEW 108



PLAS 124



TIRSO, DOLE, KOPEK 128

DOWNLIGHT SYSTEM  
SISTEMAS EMPOTRABLES  
SYSTÈME ENCASTRABLE





**SOLID** downlight is a luminaire for LED COB with 30° or 65° aluminium reflectors and frame in white, black, or gray. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles. Adjustable version with DALI system.

El downlight SOLID es una luminaria para LED COB con reflectores de aluminio de 30° o 65° y marco en blanco, negro y gris. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil. Versión regulable con sistema DALI.

Le downlight SOLID est un luminaire pour LED COB avec réflecteurs d'aluminium de 30° ou 65° et avec un cadre blanc, noir et gris. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible. Version réglable avec système DALI.

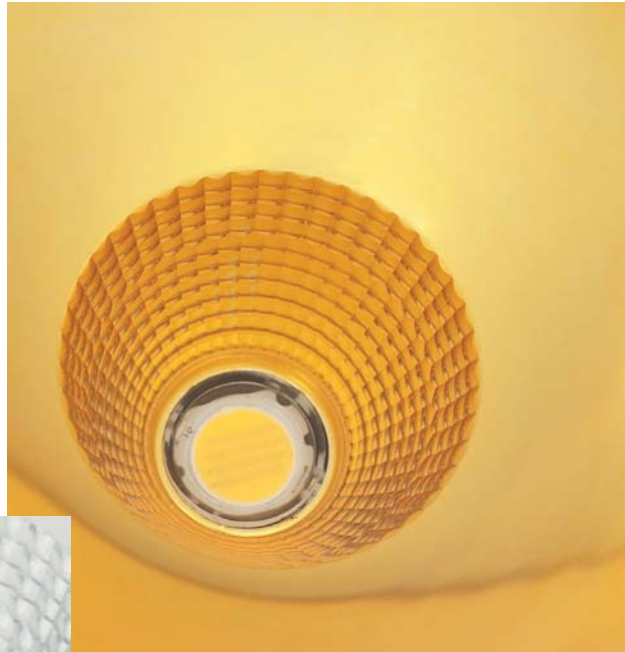
OVERVIEW DETALLES DÉTAILS

**High-quality materials**

100% cast aluminium. High-grade aluminium reflectors available in 30° and 65°. The gold tone gives light a warm hue, ensuring high visual comfort.

**Máxima calidad en los materiales.**

Totalmente fabricado en aluminio inyectado. Reflectores de aluminio de alta pureza en versiones 30° y 65°. El acabado oro aporta un matiz cálido a la luz que refracta, consiguiendo un alto confort visual.



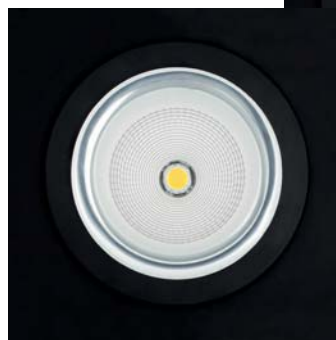
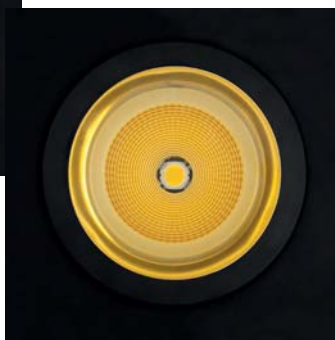
**Des matériaux de la meilleure qualité.**

Fabriqué entièrement en aluminium injecté. Réflecteurs en aluminium de grande pureté en version 30 et 65°. Le finition dorée confère un ton chaud à la lumière réfractée, apportant un grand confort visuel.



**High brightness**

State-of-the-art COB LED.  
High brightness.

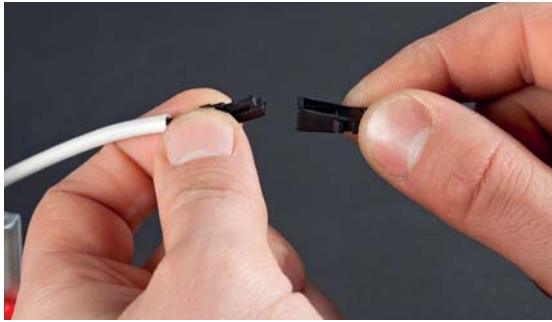


**Alta luminosidad**

LED COB de última generación con un gran rendimiento lumínico.

**Haute luminosité**

LED COB dernière génération.



### Easy connection

Quick coupling wiring to facilitate electric connection.

### Fácil conexión

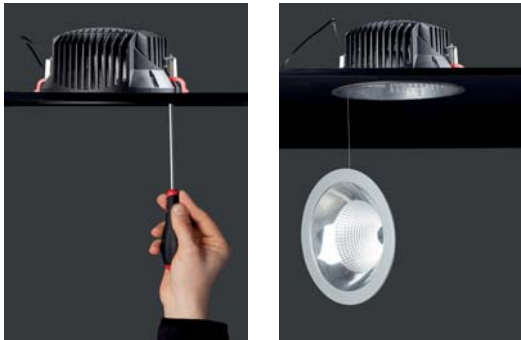
Cableado con anclaje rápido para facilitar la conexión eléctrica.

### Connexion facile

Rapide de câblage de couplage pour faciliter la connexion électrique.

### Easy installation

The brackets are integrated into the body of the luminaire and are easily adjustable with a screwdriver.



### Fácil instalación

Los anclajes vienen integrados en el cuerpo de la luminaria y son fácilmente ajustables con un destornillador.

### Installation facile

Les crochets sont intégrés dans le corps du luminaire et sont facilement réglables avec un tournevis. with a screwdriver.



### Disipador de calor

Todo el cuerpo de la luminaria hace a su vez de disipador de calor. Ha sido sometido a pruebas en túnel de viento para conseguir un alto rendimiento y garantizar la máxima vida útil de la luminaria.

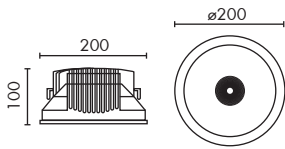
### Heat disipator

The whole body of the luminaire in turn acts as a cooling element. It has been tested in a wind tunnel for high performance and to ensure the maximum life of the luminaire.

### Dissipateur de chaleur

Le corps du luminaire sert également de dissipateur de chaleur. Il a été soumis à des tests dans une soufflerie pour garantir des performances élevées et une longue durée de vie utile.





### SOLID Silver

Luminaire with LED COB available with different Watts, depending on selected equipment. It incorporates a 30° or 65° high-purity reflector. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles.

### SOLID Plata

Luminaria con LED COB disponible en diferentes Watts, según el equipo por el que se opte. Incorpora reflector de alta pureza de 30° o 65°. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil.

### SOLID Argent

Luminaire avec LED COB disponible en différents Watts, selon l'équipement choisi. Celui-ci présente un réflecteur de haute pureté de 30° ou 65°. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible.

### COB LED NEW



Ref.	W	Lm	K	CRI	X°	Driver	Photometric
02051701 <input type="checkbox"/>							
02051702 <input checked="" type="checkbox"/>	16/26	1800/2650	3000	>80	30	NOT INCL.	209-210
02051703 <input checked="" type="checkbox"/>							
02051801 <input type="checkbox"/>							
02051802 <input checked="" type="checkbox"/>	16/26	1750/2250	3000	>80	65	NOT INCL.	211-212
02051803 <input checked="" type="checkbox"/>							
02051901 <input type="checkbox"/>							
02051902 <input checked="" type="checkbox"/>	16/26	1800/2650	4000	>80	30	NOT INCL.	213-214
02051903 <input checked="" type="checkbox"/>							
02052001 <input type="checkbox"/>							
02052002 <input checked="" type="checkbox"/>	16/26	1800/2650	4000	>80	65	NOT INCL.	215-216
02052003 <input checked="" type="checkbox"/>							
02053601 <input type="checkbox"/>							
02053602 <input checked="" type="checkbox"/>	16/26	1760/2370	<b>PEARL WHITE</b> 3100	85	30	NOT INCL.	217-218
02053603 <input checked="" type="checkbox"/>							
02053701 <input type="checkbox"/>							
02053702 <input checked="" type="checkbox"/>	16/26	1760/2370	<b>PEARL WHITE</b> 3100	85	65	NOT INCL.	219-220
02053703 <input checked="" type="checkbox"/>							
02053001 <input type="checkbox"/>							
02053002 <input checked="" type="checkbox"/>	22/32	1500/1975	<b>MEAT</b> 4000	70	30	NOT INCL.	221-222
02053003 <input checked="" type="checkbox"/>							
02053101 <input type="checkbox"/>							
02053102 <input checked="" type="checkbox"/>	22/32	1500/1975	<b>MEAT</b> 4000	70	65	NOT INCL.	223-224
02053103 <input checked="" type="checkbox"/>							
02053201 <input type="checkbox"/>							
02053202 <input checked="" type="checkbox"/>	22/32	1735/2275	<b>FISH</b> 4000	85	30	NOT INCL.	225-226
02053203 <input checked="" type="checkbox"/>							
02053301 <input type="checkbox"/>							
02053302 <input checked="" type="checkbox"/>	22/32	1735/2275	<b>FISH</b> 4000	85	65	NOT INCL.	227-228
02053303 <input checked="" type="checkbox"/>							
02053401 <input type="checkbox"/>							
02053402 <input checked="" type="checkbox"/>	22/32	1660/2175	<b>FRUIT</b> 4000	85	30	NOT INCL.	229-230
02053403 <input checked="" type="checkbox"/>							
02053501 <input type="checkbox"/>							
02053502 <input checked="" type="checkbox"/>	22/32	1660/2175	<b>FRUIT</b> 4000	85	65	NOT INCL.	231-232
02053503 <input checked="" type="checkbox"/>							

#### Recommended Driver 16W

98310225	Normal
98310340	DALI

#### Recommended Driver 26W

98310432	Normal
98310599	DALI

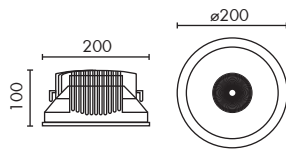
#### Recommended Driver 22W

98310325	Normal
98310599	DALI

#### Recommended Driver 32W

98310240	Normal
98310340	DALI





### SOLID Gold

Luminaire with LED COB available with different Watts, depending on selected equipment. It incorporates a high-purity golden reflector, 30° or 65°.

### SOLID Oro

Luminaria con LED COB disponible en diferentes Watts, según el equipo por el que se opte. Incorpora reflector dorado de alta pureza de 30° o 65°.

### SOLID Or

Luminaire avec LED COB disponible en différents Watts, selon l'équipement choisi. Celui-ci présente un réflecteur doré de haute pureté de 30° ou 65°.

### COB LED NEW



Ref.	W	Lm	K	CRI	X°	Driver	Photometric
02053801 <input type="checkbox"/>							
02053802 <input checked="" type="checkbox"/>	16/26	1800/2650	3000	>80	30	NOT INCL.	233-234
02053803 <input checked="" type="checkbox"/>							
02053901 <input type="checkbox"/>							
02053902 <input checked="" type="checkbox"/>	16/26	1750/2250	3000	>80	65	NOT INCL.	235-236
02053903 <input checked="" type="checkbox"/>							

#### Recommended Driver 16W

98310225	Normal
98310340	DALI

#### Recommended Driver 26W

98310432	Normal
98310599	DALI

### OPTIONAL OPCIONAL OPTION



### Ref. 02059906

Removable aluminium wall washer. Provides a very uniform illumination of the vertical plane. The wall washer or vertical lighting is a key element in modern-day lighting planning. It can enhance the material, texture and colour of walls.

### Ref. 02059906

Bañador de pared extraíble en aluminio. Proporciona una iluminación muy uniforme en el plano vertical. El baño de paredes o iluminación vertical es un elemento clave en la planificación de iluminación actual. Puede realzar el material, textura y color de estas paredes.

### Ref. 02059906

Lèche-mur amovible en aluminium. Fournit un éclairage vertical uniforme. Actuellement, l'illumination verticale est un élément clé dans la planification de l'éclairage. Elle peut mettre en valeur le matériau, la texture et la couleur des murs.

#### Ref. Photometric

02059906	027, 028
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### Ref. 02059902

Acrylic diffuser for optimal visual comfort, preventing glare.

### Ref. 02059902

Difusor en acrílico para conseguir un óptimo confort visual evitando el deslumbramiento.

### Ref. 02059902

Diffuseur en acrylique pour un confort visuel

#### Ref. Photometric

02059902	025, 026
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\* Bulb included (See page 168) Lámpara incluida (Ver pág. 168) Ampoule inclus (Voir page 168)

Due to ongoing technological advances in LED CHIPS, the technical features of the product are subject to change. Debido a la constante evolución tecnológica de los CHIP LED, el producto puede sufrir variaciones en sus características técnicas. En raison de l'évolution technologique constante des PUCES LED, les caractéristiques techniques du produit peuvent changer.





The **ATOM** family is made up of a series of recessed luminaires for compact fluorescent and discharge lamps.

It features a system to anchor it on the ceiling without the need of tools in order to make its installation simple.

La familia ATOM se compone de una serie de luminarias empotrables para fluorescencia compacta y lámparas de descarga. Incorpora un sistema de anclaje al techo sin herramientas para facilitar la instalación.

La famille ATOM se compose d'une série de luminaires encastrables pour une fluorescence compacte et des ampoules à décharge. Il est doté d'un système de fixation au plafond sans outils, pour en faciliter l'installation.

### Easy maintenance

The reflector's fastening system to the structure by means of an aluminium wire allows an easy and fast substitution of the bulb.



### OVERVIEW DETAILLES DÉTAILS



### Fácil mantenimiento

El sistema de sujeción del reflector a la estructura a través de un hilo de aluminio permite una fácil y rápida reposición de la lámpara.

### Maintenance facile

Le système de fixation du réflecteur à la structure se fait par le biais d'un fil en aluminium ce qui permet un remplacement facile et rapide de la ampoule.



### Materials

Made integrally in aluminium, even the body, where the removable PVC sockets are housed. The aluminium structure is lightweight and strong.



Empotrable Downlight Encastrable

### Materiales

Fabricado íntegramente en aluminio incluso el cuerpo donde se alojan los portalámparas de PVC extraíbles. La estructura de aluminio es ligera y resistente.



### Heat dissipator

The model for discharge lamps features a heat dissipator of aluminium to enhance the air flow and make use life of the lamp longer.

### Disipador de calor

El modelo para lámparas de descarga incorpora disipador de calor en aluminio para mejorar la circulación del aire y alargar la vida útil de la lámpara.

### Dissipateur de chaleur

Le modèle pour ampoules à décharge incorpore un dissipateur de chaleur en aluminium pour améliorer la circulation de l'air et rallonger la vie utile de la ampoule.

### Maximum performance

The 99% pure aluminium reflector ensures a high luminic performance and a constant use of the lamp along time.

### Máximo rendimiento

El reflector de aluminio de un 99% de pureza asegura un alto rendimiento lumínico y unas prestaciones de las lámparas constantes en el tiempo.

### Rendement maximum

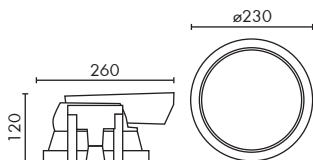
Le réflecteur en aluminium à 99% de pureté assure un haut rendement lumineux et les prestations des ampoules constantes dans le temps.

### Matériaux

Intégralement fabriqué en aluminium même le corps où sont logées les douilles en PVC extractibles. Le cadre en aluminium est léger et résistant.



Bañador de pared Wall washer  
Lumière d'ambiance



### ATOM downlight for TC-D, TC-DEL or TC-TEL

Aluminium ceiling recessed luminaire for TC-D with magnetic equipment include, for TC-DEL or TC-TEL with equipment included.

Also available in adjustable version for DALI or 1-10V system or with emergency equipments.

### ATOM luminaria empotrable lámpara TC-D, TC-DEL o TC-TEL

Luminaria empotrable de techo en aluminio para TC-D con equipo magnético incluido, para TC-DEL o TC-TEL con equipo electrónico incluido. Disponible también en versión regulable para sistema DALI o 1-10V o con equipo de emergencia.

### ATOM luminaire encastrable pour ampoule TC-D, TC-DEL ou TC-TEL

Luminaire encastrable en aluminium pour TC-D avec ballast magnétique inclus, pour TC-DEL ou TC-TEL avec ballast électronique inclus. Également disponible en version réglable pour système DALI ou 1-10V ou avec un équipement d'urgence.

#### TC-D



Ref.	Socket	W	Gear	Photometric
02030101	1 x G24d-3	26	Magnetic INCL.	036
02030102				
02030103				
02030201	2 x G24d-2	18	Magnetic INCL.	037
02030202				
02030203				
02030301	2 x G24d-3	26	Magnetic INCL.	038
02030302				
02030303				

#### TC-DEL



Ref.	Socket	W	Gear	Photometric
02030401	1 x G24q-3	26	Electronic INCL.	039
02030402				
02030403				
02030601	2 x G24q-2	18	Electronic INCL.	040
02030602				
02030603				
02030701	2 x G24q-3	26	Electronic INCL.	041
02030702				
02030703				



#### REGULABLE DIMMABLE DIMMABLE DALI

02030901	2 x G24q-3	26	Electronic INCL.	041
02030902				
02030903				



#### REGULABLE DIMMABLE DIMMABLE 1-10V

02032001	2 x G24q-3	26	Electronic INCL.	041
02032002				
02032003				



#### EMERGENCIA EMERGENCY EMERGENCIE

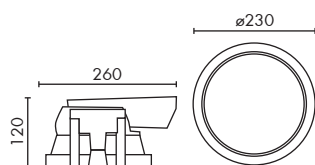
02033201	2 x G24q-2	18	Electronic INCL. 1h.	040
02033202				
02033203				
02033301	2 x G24q-3	26	Electronic INCL. 1h.	041
02033302				
02033303				

#### TC-TEL



Ref.	Socket	W	Gear	Photometric
02030501	1 x GX24q-3/q-4	32/42	Magnetic INCL.	042 (32W)
02030502				043 (42W)
02030503				
02030801	2 x GX24q-3/q-4	32/42	Magnetic INCL.	044 (32W)
02030802				045 (42W)
02030803				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**ATOM downlight for TC-D, TC-DEL or TC-TEL with glass**

Aluminium ceiling recessed luminaire for TC-D with magnetic equipment include.

**ATOM luminaire encastrable pour ampoule TC-D, TC-DEL ou TC-TEL avec verre**

Luminaria empotrable de techo en aluminio para TC-D con equipo magnético incluido.

**ATOM luminaire encastrable pour ampoule TC-D, TC-DEL ou TC-TEL avec verre**

Luminaire encastrable en aluminium pour TC-D avec ballast magnétique inclus.

**TC-D**



Ref.	Socket	W	Gear	Photometric
02031101 <input type="checkbox"/>				
02031102 <input checked="" type="checkbox"/>	1 x G24d-3	26	Magnetic INCL.	046
02031103 <input checked="" type="checkbox"/>				
02031201 <input type="checkbox"/>				
02031202 <input checked="" type="checkbox"/>	2 x G24d-2	18	Magnetic INCL.	047
02031203 <input checked="" type="checkbox"/>				
02031301 <input type="checkbox"/>				
02031302 <input checked="" type="checkbox"/>	2 x G24d-3	26	Magnetic INCL.	048
02031303 <input checked="" type="checkbox"/>				

**TC-DEL**



Ref.	Socket	W	Gear	Photometric
02031401 <input type="checkbox"/>				
02031402 <input checked="" type="checkbox"/>	1 x G24q-3	26	Electronic INCL.	049
02031403 <input checked="" type="checkbox"/>				
02031601 <input type="checkbox"/>				
02031602 <input checked="" type="checkbox"/>	2 x G24q-2	18	Electronic INCL.	050
02031603 <input checked="" type="checkbox"/>				
02031701 <input type="checkbox"/>				
02031702 <input checked="" type="checkbox"/>	2 x G24q-3	26	Electronic INCL.	051
02031703 <input checked="" type="checkbox"/>				



**REGULABLE DIMMABLE DIMMABLE DALI**

02031901 <input type="checkbox"/>				
02031902 <input checked="" type="checkbox"/>	2 x G24q-3	26	Electronic INCL.	051
02031903 <input checked="" type="checkbox"/>				



**REGULABLE DIMMABLE DIMMABLE 1-10V**

02032301 <input type="checkbox"/>				
02032302 <input checked="" type="checkbox"/>	2 x G24q-3	26	Electronic INCL.	051
02032303 <input checked="" type="checkbox"/>				



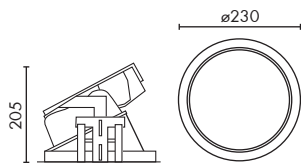
**EMERGENCIA EMERGENCY EMERGENCIE**

02033401 <input type="checkbox"/>				
02033402 <input checked="" type="checkbox"/>	2 x G24q-2	18	Electronic INCL.1h.	050
02033403 <input checked="" type="checkbox"/>				
02033501 <input type="checkbox"/>				
02033502 <input checked="" type="checkbox"/>	2 x G24q-3	26	Electronic INCL.1h.	051
02033503 <input checked="" type="checkbox"/>				

**TC-TEL**



Ref.	Socket	W	Gear	Photometric
02031501 <input type="checkbox"/>				
02031502 <input checked="" type="checkbox"/>	1 x GX24q-3/q-4	32/42	Magnetic INCL.	052 (32W) 053 (42W)
02031503 <input checked="" type="checkbox"/>				
02031801 <input type="checkbox"/>				
02031802 <input checked="" type="checkbox"/>	2 x GX24q-3/q-4	32/42	Magnetic INCL.	054 (32W) 055 (32W)
02031803 <input checked="" type="checkbox"/>				



#### ATOM wall washer for TC-DEL with glass

Wall washer to be installed on the ceiling, made of aluminium for TC-DEL with electronic equipment included. Available in different luminic power and a non-dazzling reflector.

#### ATOM luminaria empotrable asimétrico para lámpara TC-DEL con cristal

Bañador de pared de instalación en techo en aluminio para TC-DEL con equipo electrónico incluido disponible en varias potencias lumínicas dotado de reflector anti-deslumbrante.

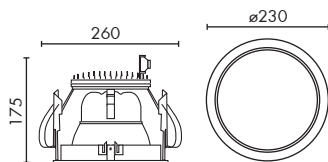
#### ATOM luminaire encastrable asymétrique pour ampoule TC-DEL avec verre

Lumière encastrable d'ambiance pour TC-DEL avec ballast électronique inclus disponible en plusieurs puissances lumineuses doté de réflecteur anti-éblouissement.

#### TC-DEL



Ref.	Socket	W	Gear	Photometric
02032101 <input type="checkbox"/>	1 x G24q-3	26	Electronic INCL.	056
02032102 <input checked="" type="checkbox"/>				
02032103 <input checked="" type="checkbox"/>				
02032201 <input type="checkbox"/>	2 x G24q-3	26	Electronic INCL.	057
02032202 <input checked="" type="checkbox"/>				
02032203 <input checked="" type="checkbox"/>				



#### ATOM downlight for HIT-DE discharge lamp

Aluminium ceiling recessed lamp for HIT-DE 70 and 150 W.

#### ATOM luminaria empotrable para lámpara de descarga HIT-DE

Luminaria empotrable en aluminio para HIT-DE de 70 y 150 W.

#### ATOM luminaire encastrable pour ampoule de décharge HIT-DE

Luminaire encastrable pour ampoule de décharge en aluminium pour HIT-DE 70 et 150 W.

#### HIT-DE



Ref.	Socket	W	Gear	Photometric
02033001 <input type="checkbox"/>	1 x RX7s	70	NOT INCL.	058
02033002 <input checked="" type="checkbox"/>				
02033003 <input checked="" type="checkbox"/>				
02033101 <input type="checkbox"/>	1 x RX7s	150	NOT INCL.	059
02033102 <input checked="" type="checkbox"/>				
02033103 <input checked="" type="checkbox"/>				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







The **HORMA** is a square recessed luminaire of reduced proportions for compact fluorescent lamps. The body is made in highly resistant nylon and the frame in die cast aluminium with three finish: white, black and grey with opal diffuser.

La luminaria **HORMA** es un empotrable cuadrado de proporciones reducidas para lámparas fluorescentes compactas.

El cuerpo está fabricado en nylon de alta resistencia y el marco en aluminio inyectado en tres acabados: blanco, negro y gris con difusor opal.

Le luminaire **HORMA** est un encastrable carré à proportions réduites pour ampoules fluorescentes compactes.

Le corps est fabriqué en nylon à haute résistance et l'encadrement en aluminium injecté en trois finitions: blanc, noir, et gris avec diffuseur opale.

OVERVIEW DETAILLES DÉTAILS

**Easy installation**

The anchoring system of the HORMA model features three metallic fastening prongs to allow an easy installation with no need of tools.

**Fácil instalación**

El sistema de anclaje del modelo HORMA consta de patillas metálicas de sujeción que permiten una instalación fácil y rápida sin el uso de herramientas.



**Installation facile**

Le système de fixation du modèle HORMA comprend des pattes métalliques de fixation qui permettent un montage facile et rapide sans avoir à utiliser d'outils.

**Funcionality**

On the top of the luminaire there is a box to house the equipments with a perforated folding cover to facilitate the access to them.

**Funcionalidad**

En la parte superior de la luminaria se encuentra la caja porta equipos con tapa abatible microperforada para facilitar el acceso a los mismos.



**Easy access**

The substitution of the lamps is very easy thanks to the folding socket system. The frame remains hanging from the body of the luminaire to prevent it from breakings.



**Fonctionnalité**

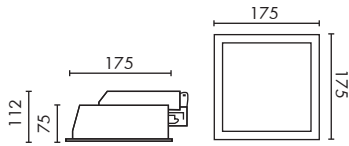
Sur la partie supérieure du luminaire on trouve le boîtier du ballast avec couvercle rabattable microperforée pour faciliter l'accès à celui-ci. with a screwdriver.

**Fácil accesibilidad**

La reposición de las lámparas es muy sencilla gracias al sistema de portalámparas abatible. El marco queda suspendido del cuerpo de la luminaria para evitar roturas.

**Accessibilité facile**

Le remplacement des ampoules est très simple grâce au système de douilles rabattables. L'encadrement reste suspendu du corps du luminaire pour éviter les casses.



### HORMA downlight for two TC-DEL

Square downlight in die cast aluminium and nylon with two 13 W, 18 W or 26 W TC-DEL. Also available in adjustable version for DALI or 1-10V system or with emergency equipments.

### HORMA luminaria downlight para dos TC-DEL

Luminaria downlight cuadrada en nylon y aluminio inyectado para dos TC-DEL de 13 W, 18 W o 26 W. Disponible también en versión regulable para sistema DALI o 1-10V o con equipo de emergencia.

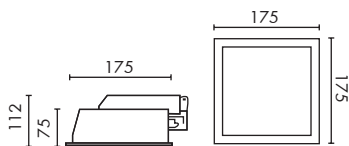
### HORMA luminaire encastrable pour deux TC-DEL

Luminaire encastrable carré en aluminium injecté et nylon de deux TC-DEL de 13 W, 18 W ou 26 W. Également disponible en version réglable pour système DALI ou 1-10V ou avec un équipement d'urgence.

#### TC-DEL



Ref.	Socket	W	Lm	Gear	Photometric
02040101	<input type="checkbox"/>				
02040102	<input checked="" type="checkbox"/> 2 x G24q-1	13	1800	Electronic INCL.	034
02040103	<input checked="" type="checkbox"/>				
02040201	<input type="checkbox"/>				
02040202	<input checked="" type="checkbox"/> 2 x G24q-2	18	2400	Electronic INCL.	035
02040203	<input checked="" type="checkbox"/>				
02040301	<input type="checkbox"/>				
02040302	<input checked="" type="checkbox"/> 2 x G24q-3	26	3600	Electronic INCL.	033
02040303	<input checked="" type="checkbox"/>				



#### TC-DEL



Ref.	Socket	W	Lm	Gear	Photometric
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>					
02040701	<input type="checkbox"/>				
02040702	<input checked="" type="checkbox"/> 2 x G24q-3	26	3600	Electronic INCL.	033
02040703	<input checked="" type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>					
02040601	<input type="checkbox"/>				
02040602	<input checked="" type="checkbox"/> 2 x G24q-3	26	3600	Electronic INCL.	033
02040603	<input checked="" type="checkbox"/>				
<b>EMERGENCIA EMERGENCY EMERGENCIE</b>					
02040401	<input type="checkbox"/>				
02040402	<input checked="" type="checkbox"/> 2 x G24q-2	18	2400	Electronic INCL. 1h.	035
02040403	<input checked="" type="checkbox"/>				
02040501	<input type="checkbox"/>				
02040502	<input checked="" type="checkbox"/> 2 x G24q-3	26	3600	Electronic INCL. 1h.	033
02040503	<input checked="" type="checkbox"/>				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





**OPTIC** is a group of recessed luminaires made from cast aluminium and designed for multiple light sources. Available in black and white, with 20° and 56° reflector. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles.

OPTIC es una familia de luminarias empotrables realizadas en aluminio inyectado y diseñadas para múltiples fuentes lumínicas. Disponible en blanco y negro, con reflector de 20° y 56°. Versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil.

OPTIC est une famille de luminaires encastrables et réalisés en aluminium injecté et conçus pour de multiples sources lumineuses. Disponible en noir et blanc, avec réflecteur de 20° et 56°. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible.

**Multi-directional**

All the models are multi-directional on their horizontal axis, allowing thus a total control of the light beam.

**Orientable**

Tous les modèles sont orientables sur l'axe horizontal, permettant de maintenir un contrôle total sur le faisceau de lumière.

**Orientable**

Todos los modelos de esta familia son orientables sobre el eje horizontal, permitiendo un mayor control sobre el haz de luz.

**Anchoring system**

The anchoring system of all the models guarantee the ideal fastening pressure to place the luminaire easily.



**OVERVIEW** DETALLES DÉTAILS



**Sistema de anclaje**

El sistema de anclaje de todos los modelos garantiza la presión de agarre ideal para colocar la luminaria de manera sencilla.

**Système de fixation**

Le système de fixation de tous les modèles garantit la pression de prise idéale pour placer le luminaire facilement.

**Versatility**

Optic presents a structure that is prepared to house different light sources, ensuring the lamp's versatility.

**Versatilité**

Optic présente une structure qui est préparée pour loger différentes sources lumineuses garantissant la versatilité de l'appareil.

**Versatilidad**

Optic presenta una estructura que está preparada para alojar diferentes fuentes lumínicas garantizando la versatilidad del aparato.



**Optic Recessed Luminaire QR-111**

Multi-directional recessed luminaire made from cast aluminium, for QR-111.

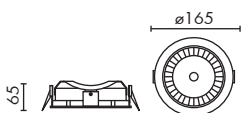
**Optic luminaria empotrable QR-111**

Luminaria empotrable orientable en aluminio inyectado para QR-111.

**Optic luminaire encastrable QR-111**

Luminaire encastrable et orientable, en aluminium injecté pour QR-111.

**QR 111 NEW**



Ref.	Socket	V	W	Gear	Photometric
03203101	1 x G53	12	MAX 100W	Electronic NOT INCL.	175-178
03203102	1 x G53	12	MAX 100W	Electronic NOT INCL.	175-178

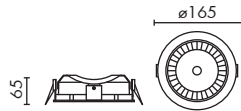


**Optic Recessed Luminaire CDM-R111**  
L Multi-directional recessed luminaire made from cast aluminium. Available with 25w, 35w, and 70w.

**Optic luminaria empotrable CDM-R111**  
Luminaria empotrable orientable en aluminio inyectado para CDM-R111. Disponible en 25w, 35w y 70w.

**Optic luminaire encastrable CDM-R111**  
Luminaire encastrable et orientable en aluminium injecté pour CDM-R111. Disponible en 25w, 35w y 70w.

**CDM-R111 NEW**



Ref.	Socket	W	Gear	Photometric
03202701 <input type="checkbox"/>	1 x GX8.5	20/35/70	Electronic NOT INCL.	146-157
03202702 <input type="checkbox"/>				

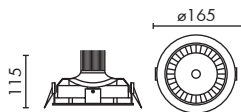


**Optic Recessed Luminaire LED**  
Multi-directional LED recessed luminaire in cast aluminium. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles.

**Optic luminaria empotrable LED**  
Luminaria empotrable orientable LED en aluminio inyectado. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil.

**Optic luminaire encastrable LED**  
Luminaire encastrable et orientable, LED, en aluminium injecté. La version avec le module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles.

**LED NEW**



Ref.	W	Lm	K	CRI	X°	Driver	Photom.
03200101 <input type="checkbox"/>	16/26	1750/2550	3000	>80	20	NOT INCL.	185-186
03200102 <input type="checkbox"/>							
03200201 <input type="checkbox"/>	16/26	1750/2550	3000	>80	56	NOT INCL.	187-188
03200202 <input type="checkbox"/>							
03200301 <input type="checkbox"/>	16/26	1800/2650	4000	>80	20	NOT INCL.	189-190
03200302 <input type="checkbox"/>							
03200401 <input type="checkbox"/>	16/26	1800/2650	4000	>80	56	NOT INCL.	191-192
03200402 <input type="checkbox"/>							
03201201 <input type="checkbox"/>	16/26	1800/2500	PEARL WHITE 3100	85	20	NOT INCL.	193-194
03201202 <input type="checkbox"/>							
03201301 <input type="checkbox"/>	16/26	1800/2500	PEARL WHITE 3100	85	56	NOT INCL.	195-196
03201302 <input type="checkbox"/>							
03200501 <input type="checkbox"/>	16/22	1160/1505	MEAT 4000	>80	20	NOT INCL.	197-198
03200502 <input type="checkbox"/>							
03200601 <input type="checkbox"/>	16/22	1160/1505	MEAT 4000	>80	56	NOT INCL.	199-200
03200602 <input type="checkbox"/>							
03200701 <input type="checkbox"/>	16/22	1330/1735	FISH 4000	>80	20	NOT INCL.	205-206
03200702 <input type="checkbox"/>							
03200801 <input type="checkbox"/>	16/22	1330/1735	FISH 4000	>80	56	NOT INCL.	207-208
03200802 <input type="checkbox"/>							
03200901 <input type="checkbox"/>	16/22	1275/1660	FRUIT 4000	>80	20	NOT INCL.	201-202
03200902 <input type="checkbox"/>							
03201101 <input type="checkbox"/>	16/22	1275/1660	FRUIT 4000	>80	56	NOT INCL.	203-204
03201102 <input type="checkbox"/>							

**Recommended Driver 16W**

98310225	Normal
98310340	DALI

**Recommended Driver 26W**

98310432	Normal
98310599	DALI

**Recommended Driver 16W**

98310125	Normal
98311599	DALI

**Recommended Driver 22W**

98310' 25	Normal
98310) - -	DALI







The **OLIMPO** series is made up with five recessed luminaires for halogen and discharge lamps. It is integrally made in die cast aluminium with high a pure reflector.

La serie OLIMPO se compone de cinco luminarias empotrables para lámparas halógenas y de descarga. Está fabricada íntegramente en aluminio inyectado con reflector de alta pureza.

La série OLIMPO se compose de cinq luminaires encastrables pour ampoules halogènes et à décharge. Elle est intégralement fabriquée en aluminium injecté avec réflecteur haute pureté.

### Multi-directional

All the models are 30° multi-directional on their horizontal axis, allowing thus a total control of the light beam.



### OVERVIEW DETALLES DÉTAILS

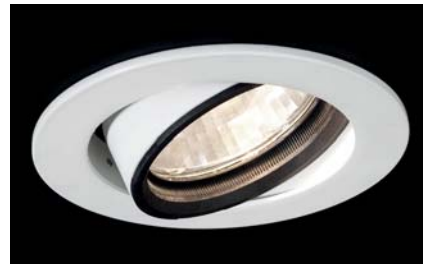


### Orientable

Tous les modèles sont orientables 30° sur l'axe horizontal, permettant de maintenir un contrôle total sur le faisceau de lumière.

### Orientable

Todos los modelos son orientables 30° sobre el eje horizontal, permitiendo mantener un control total sobre el haz de luz.



### Anchoring system

The anchoring system of all the models guarantee the ideal fastening pressure to place the luminaire on any surface.

### Système de fixation

Le système de fixation de tous les modèles garantit la pression de prise idéale pour placer le luminaire sur n'importe quelle surface.

### Sistema de anclaje

El sistema de anclaje de todos los modelos garantiza la presión de agarre ideal para colocar la luminaria en cualquier superficie.



### Substitution of lamps

In the models with a reflector, the lamp is reached by turning the trim in the protecting to facilitate its substitution.



### Reposición de lámparas

En los modelos con reflector incorporado se accede a la lámpara girando el embellecedor que incorpora el cristal protector, facilitando así su reposición.

### Remplacement des ampoules

Pour les modèles avec réflecteur incorporé on accède à la ampoule en faisant tourner l'enjoliveur qui incorpore le verre protecteur, facilitant ainsi son remplacement.



### Heat dissipator

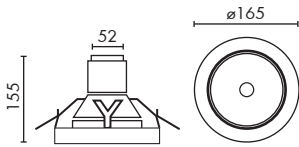
All the models feature an efficient heat dissipator made of die cast aluminium to keep the optimum working temperature of the lamp.

### Dissipateur de chaleur

Tous les modèles incorporent un dissipateur de chaleur en aluminium injecté pour maintenir la température de travail optimale de la ampoule et garantir une durée de vie maximum de celle-ci.

### Disipador de calor

Todos los modelos incorporan un disipador de calor de aluminio inyectado para mantener la temperatura óptima de trabajo de la lámpara y garantizar la máxima vida útil de la misma.



**OLIMPO orientable downlight for QR-111**

Orientable downlight lamp die cast aluminium made for QR-111 bulb max. 100 W.

**OLIMPO luminaria empotrable orientable QR-111**

Luminaria empotrable orientable en aluminio inyectado para QR-111 de máximo 100 W.

**OLIMPO lampe encastrable orientable pour QR-111**

Luminaire encastrable orientable pour ampoule QR-111 max. 100 W en aluminium injecté.

**QR-111**



Ref.	Socket	V	W	Gear	Photometric
03080401					
03080402	1 x G53	12	Max. 100	NOT INCL.	130~145
03080403					

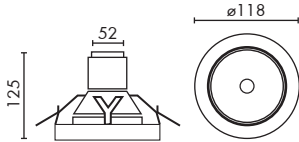
HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



38° reflector model  
Modelo con reflector 38°  
Modèle avec réflecteur 38°



Oval reflector model  
Modelo con reflector oval  
Modèle avec réflecteur oval



**OLIMPO orientable downlight for CDM-Tm**

Orientable downlight lamp die cast aluminium made for Cdm-Tm bulb of 20 W or 35W.

**OLIMPO luminaria empotrable orientable CDM-Tm**

Luminaria empotrable orientable para CDM-Tm de 20 o 35 W en aluminio inyectado.

**OLIMPO lampe encastrable orientable pour CDM-Tm**

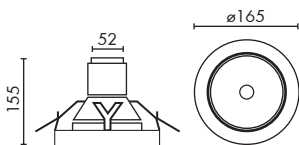
Luminaire encastrable orientable pour ampoule CDM-Tm max. 100 W en aluminium injecté.

**CDM-Tm**



Ref.	Socket	W	Xº	Gear	Photometric
03080101		20			
03080102	PGJ5	35	38	NOT INCL.	093 (20W) 094 (35W)
03080103					
03080501		20			
03080502	PGJ5	35	Oval	NOT INCL.	095 (20W) 096 (35W)
03080503					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



**OLIMPO orientable downlight for CDM-R111**

Orientable downlight lamp die cast aluminium made for CDM-R111 bulb 35 or 70 W.

**OLIMPO luminaria empotrable orientable CDM-R111**

Luminaria empotrable orientable para CDM-R111 para 35 o 70 W en aluminio inyectado.

**OLIMPO orientable downlight lampe pour CDM-R111**

Luminaire encastrable orientable pour ampoule CDM-R111 35 ou 70 W en aluminium injecté.

**CDM-R111**



Ref.	Socket	W	Gear	Photometric
03080301				
03080302	1 x GX8.5	35/70	NOT INCL.	148~157
03080303				

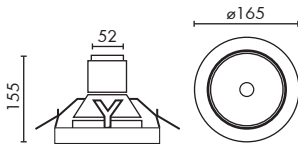
HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



Oval reflector model  
Modelo con reflector oval  
Modèle avec réflecteur oval



38° reflector model  
Modelo con reflector 38°  
Modèle avec réflecteur 38°



### OLIMPO orientable downlight lamp HIT-T

Orientable downlight lamp die cast aluminium, made for HIT-T 35w or 70w. Available with 38° reflector.

### OLIMPO luminaria empotrable orientable HIT-T

Luminaria empotrable orientable para HIT-T de 35 o 70 W en aluminio inyectado. Disponible con reflector de 38° u oval.

### OLIMPO lampe en- castrable orientable pour HIT-T

Luminaire encastrable orientable pour ampoule HIT-T 35 ou 70 W en aluminium injecté. Disponible avec réflecteur de 38° ou oval.

#### HIT-T

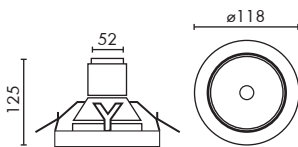


Ref.	Socket	W	Xº	Gear	Photometric
03080201 <input type="checkbox"/>	1 x G12	35/70	38	NOT INCL.	097 (35W) 098 (70W)
03080202 <input checked="" type="checkbox"/>					
03080203 <input checked="" type="checkbox"/>					
03080601 <input type="checkbox"/>	1 x G12	35/70	Oval	NOT INCL.	100 (35W) 101 (70W)
03080602 <input checked="" type="checkbox"/>					
03080603 <input checked="" type="checkbox"/>					

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



14° reflector model  
Modelo con reflector 14°  
Modèle avec réflecteur 14°



### Recessed, adjustable OLIMPO SDW luminaire

Recessed, adjustable cast aluminium luminaire for 50 or 100W SDW. Available with 38° reflector.

### OLIMPO luminaria empotrable orientable SDW

Luminaria empotrable orientable para SDW de 50 o 100W en aluminio inyectado. Disponible con reflector de 38° u oval.

### OLIMPO luminaire encastrable orientable SDW

Luminaire encastrable orientable pour SDW de 50 ou 100W en aluminium injecté. Disponible avec réflecteur 38°.

#### SDW



Ref.	Socket	W	Gear	Photometric
03080701 <input type="checkbox"/>	1 x GX12.1	50 100	NOT INCL.	103 104
03080702 <input checked="" type="checkbox"/>				
03080703 <input checked="" type="checkbox"/>				

HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





The **PASCAL** series is made up with three folding downlight models for discharge lamps. They are made of die cast aluminium and a high pure aluminium reflector. The multiple possibilities of movement allow for a total control of the light beam.

La serie PASCAL se compone de tres modelos de downlight abatibles para lámparas de descarga, están fabricados en aluminio inyectado y reflector de aluminio de alta pureza. Las múltiples posibilidades de movimiento de la luminaria permiten un control total del haz de luz.

La série PASCAL se compose de trois modèles de downlight rabattables pour ampoules à décharge, ils sont fabriqués en aluminium injecté et réflecteur en aluminium haute pureté. Les multiples possibilités de mouvement du luminaire permettent un contrôle total du faisceau de lumière.

### Versatility

All the models can be folded -20° up to 45° allowing the luminaire to create different ambiances.

### Versatilidad

Todos los modelos son abatibles desde -20° hasta 45° permitiendo que la luminaria cree diferentes ambientes.

### Versatilité

Tous les modèles sont rabattables de -20° jusqu'à 45° permettant au luminaire de créer différentes ambiances.

## OVERVIEW DETALLES DÉTAILS



### Easy assembly

The body of the luminaire features a high quality anchoring system to facilitate the assembly.



### Montage facile

Le corps du luminaire incorpore un système de fixation d'haute qualité pour faciliter le montage.



### Fácil montaje

El cuerpo de la luminaria incorpora un sistema de anclaje de alta calidad para facilitar el montaje.

### Convenience and safety

The high pure aluminium reflector is made of just one piece together with the protecting glass and the trim frame which facilitate the substitution of the lamp.



### Comodidad y seguridad

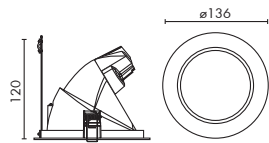
El reflector de aluminio de alta pureza forma una sola pieza junto al cristal protector y al marco embellecedor facilitando la reposición de la lámpara.



### Confort et sécurité

Le réflecteur en aluminium haute pureté forme une seule pièce avec le verre protecteur et l'encadrement enjoliveur facilitant le remplacement de la ampoule.





### PASCAL downlight

Folding luminaire CDM-Tm, HIT-TC or HIT-T die.  
Cast aluminium body with high pure aluminium reflector.

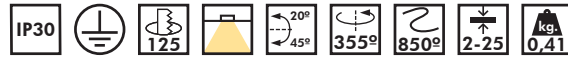
### PASCAL empotrable para CDM-Tm

Luminaria abatible para CDM-Tm, HIT-TC o HIT-T. Cuerpo en aluminio inyectado con reflector de aluminio de alta pureza.

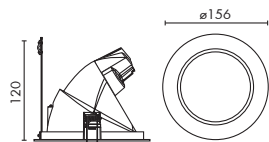
### PASCAL encastrable pour CDM-Tm

Luminaire rabattable pour CDM-Tm, HIT-TC ou HIT-T. Corps en aluminium injecté avec réflecteur en aluminium haute pureté.

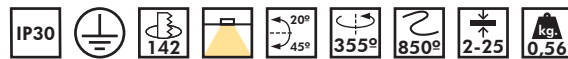
#### CDM-Tm



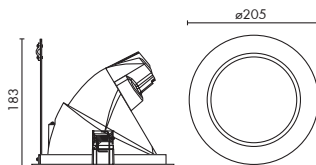
Ref.	Socket	W	Xº	Gear	Photometric
02020601 <input type="checkbox"/>	1 x PGJ5	20	12	NOT INCL.	081 (20W)
02020602 <input checked="" type="checkbox"/>		35			
02020603 <input checked="" type="checkbox"/>					
02020901 <input type="checkbox"/>	1 x PGJ5	20	38	NOT INCL.	083 (20W)
02020902 <input checked="" type="checkbox"/>		35			
02020903 <input checked="" type="checkbox"/>					



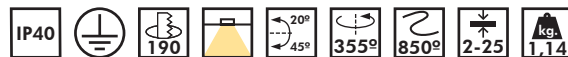
#### HIT-TC



Ref.	Socket	W	Xº	Gear	Photometric
02020701 <input type="checkbox"/>	1 x G8.5	35	12	NOT INCL.	085 (35W)
02020702 <input checked="" type="checkbox"/>		70			
02020703 <input checked="" type="checkbox"/>					
02021001 <input type="checkbox"/>	1 x G8.5	35	38	NOT INCL.	087 (35W)
02021002 <input checked="" type="checkbox"/>		70			
02021003 <input checked="" type="checkbox"/>					



#### HIT-T



Ref.	Socket	W	Xº	Gear	Photometric
02020801 <input type="checkbox"/>	1 x G12	35/70	12	NOT INCL.	085 (35W)
02020802 <input checked="" type="checkbox"/>					
02020803 <input checked="" type="checkbox"/>					
02021101 <input type="checkbox"/>	1 x G12	35/70	38	NOT INCL.	087 (35W)
02021102 <input checked="" type="checkbox"/>					
02021103 <input checked="" type="checkbox"/>					

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





The **GINGKO** family is a series of recessed squares for QR-111 lamps.

This family is available in two versions: one with steel frame in three finishes (white, black and grey) and another without outer which includes metal mounting edge brackets to ensure that the fixture is perfectly flush with the surface.

La familia GINGKO es una serie de empotrables para lámparas QR-111.

Esta familia está disponible en dos versiones: una con marco de acero en tres acabados (blanco, negro y gris) y otra versión sin marco exterior que incluye un premarco de montaje metálico para conseguir que la luminaria quede perfectamente integrada en la superficie.

La famille GINGKO est une série d'encastrables pour ampoules QR-111.

Cette famille est disponible en deux versions: une avec encadrement en acier en trois finitions (blanc, noir et gris) et une autre sans encadrement extérieur qui inclut un pré-cadre de montage métallique afin que le luminaire soit parfaitement intégré dans la surface.

OVERVIEW DETAILLES DÉTAILS

**Breadth of light**

The sockets are totally 360° multi-directional in all the series in order to allow a complete control of the light beam.

**Amplitud lumínica**

En toda la serie los portalámparas son totalmente orientables a 360°, para permitir un control completo sobre el haz de luz.



**Ampleur lumineuse**

Sur toute la série les douilles sont totalement orientables à 360°, afin de permettre un contrôle complet du faisceau de lumière.

**Easy substitution**

The socket of each model is removable and it is fastened by a metallic ring to simplify its substitution.

**Fácil reposición**

En cada modelo el portalámpara es extraíble y se sujeta con un aro metálico para simplificar su reposición.



**Remplacement facile**

Sur chaque modèle est extractible et se fixe à l'aide d'un anneau métallique pour simplifier son remplacement.



**Easy installation**

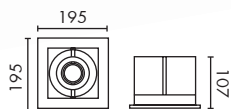
It features a system of easy anchoring operated with just a screwdriver.

**Fácil instalación**

Incorpora un sistema de fácil anclaje que se acciona con un destornillador.

**Installation facile**

Incorpore un système à fixation facile qui est actionné avec un tournevis.



### GINGKO 1 spot downlight for QR-111

360° multi-directional square cardan luminaire in steel for QR-111 lamp.

### GINGKO luminaria empotrable 1 foco para QR-111

Luminaria tipo cardan cuadrada orientable a 360° en acero para lámpara QR-111.

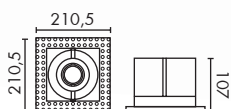
### GINGKO lampe encastrable 1 spot pour QR-111

Luminaire cardan carré orientable à 360° en acier pour ampoule QR-111.

#### QR-111



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03030101 <input type="checkbox"/>					
03030102 <input checked="" type="checkbox"/>	1 x G53	12	Max. 100	NOT INCL.	130~145
03030103 <input checked="" type="checkbox"/>					

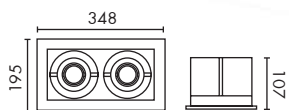


#### QR-111



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03040102 <input checked="" type="checkbox"/>	1 x G53	12	Max. 100	NOT INCL.	130~145

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)



### GINGKO 2 spots downlight for QR-111

360° multi-directional cardan luminaire in steel for QR-111 lamp.

### GINGKO luminaria empotrable 2 focos para QR-111

Luminaria tipo cardan cuadrada orientable a 360° en acero para lámpara QR-111.

### GINGKO lampe encastrable 2 spots pour QR-111

Luminaire cardan carré orientable à 360° en acier pour ampoule QR-111.

#### QR-111

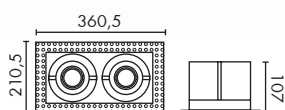


Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03030201 <input type="checkbox"/>					
03030202 <input checked="" type="checkbox"/>	2 x G53	12	Max. 100	NOT INCL.	130~145
03030203 <input checked="" type="checkbox"/>					



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03040202 <input checked="" type="checkbox"/>	2 x G53	12	Max. 100	NOT INCL.	130~145

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)



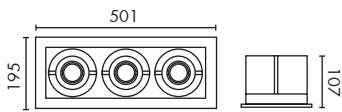
\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



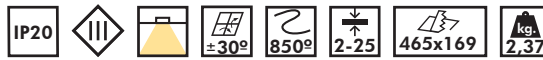
**GINGKO 3 spots downlight for QR-111**  
360° multi-directional cardan luminaire in steel for QR-111 lamp.

**GINGKO luminaria empotrable 3 focos para QR-111**  
Luminaria tipo cardan rectangular orientables a 360° en acero para lámpara QR-111.

**GINGKO lampe encastrable 3 spot pour QR-111**  
Luminaire cardan carré orientable à 360° en acier pour ampoule QR-111.



**QR-111**



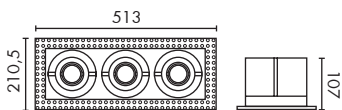
Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03030301					
03030302	3 x G53	12	Max. 100	NOT INCL.	130~145
03030303					



**QR-111**



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03040302	3 x G53	12	Max. 100	NOT INCL.	130~145



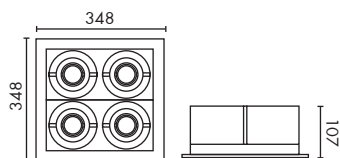
Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)



**GINGKO 4 spot downlight for QR-111**  
360° multi-directional square cardan luminaire in steel for QR-111 lamp.

**GINGKO luminaria empotrable 4 focos para QR-111**  
Luminaria tipo cardan cuadrada orientables a 360° en acero para lámpara QR-111.

**GINGKO lampe encastrable 4 spots pour QR-111**  
Luminaire cardan carré orientable à 360° en acier pour ampoule QR111.



#### QR-111



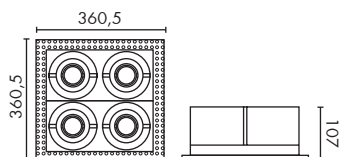
Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03030401	□				
03030402	4 x G53	12	Max. 100	NOT INCL.	130~145
03030403	■				



#### QR-111



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
3040402	4 x G53	12	Max. 100	NOT INCL.	130~145



Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







The **MORRIS** series main feature is its versatility, as it has totally independent light sources. We offer four options of sockets. The body is made of black lacquer steel and the frame is available in 3 finish (white, black and grey). Also available in a version without external frame but including metal mounting edge brackets.

La serie MORRIS se caracteriza por su versatilidad al disponer de fuentes de luz totalmente independientes. Ofrecemos 4 opciones de portalámparas. El cuerpo es de acero lacado negro y el marco está disponible en 3 acabados (blanco, negro y gris). También disponible la versión sin marco exterior que incluye un premarco de montaje metálico para conseguir que la luminaria quede perfectamente integrada en la superficie.

La série MORRIS se caractérise par sa versatilité puisqu'elle dispose de sources de lumière totalement indépendantes. Nous proposons 4 options de douilles. Le corps est en acier laqué noir et l'encadrement est disponible en 3 finitions (blanc, noir et gris). Également disponible une version sans cadre extérieur qui comprend un pré-cadre de montage métallique.

OVERVIEW DETALLES DÉTAILS

**Versatility**

The body is prepared to house four models of sockets.

**Versatilidad**

El cuerpo está preparado para alojar cuatro modelos de portálámparas.

**Versatilité**

Le corps est préparé pour loger quatre modèles de douilles



**Easy installation**

The MORRIS model has an easy installation box thanks to the prongs that fasten it to the ceiling, the anchoring are integrated into the body of the luminaire and are easily adjustable with a screwdriver. The substitution of the lamps is very simple thanks to the prongs system that the socket features.

**Fácil instalación**

El modelo MORRIS cuenta con una caja de fácil instalación gracias a las patillas de sujeción a techo. Los anclajes vienen integrados en el cuerpo de la luminaria y son fácilmente ajustables con un destornillador. La reposición de las lámparas es muy sencilla gracias al sistema de patillas que incorpora el portalámpara.



**Installation facile**

Le modèle MORRIS dispose d'un boîtier d'installation facile grâce aux pattes de fixation au plafond. Les ancrages sont intégrés dans le corps du luminaire et sont facilement réglables à l'aide d'un tournevis. Le remplacement des ampoules est très simple grâce au système de pattes que la douille incorpore.



**Information**

The body and the lampholder are provided separately. For lampholders, see page 91.

**Información**

El cuerpo y el portalámparas se suministran separadamente. Para los portalámparas, ver pág. 91.

**Information**

Le corps et la douille sont fournis séparément. Pour les douilles, voir page 91.

**LAMPHOLDERS**  
PORTALÁMPARAS  
DOUILLES

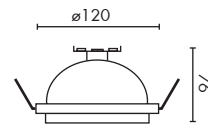
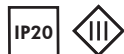


Lampholder in lacquered die cast aluminium

Portalámparas en aluminio inyectado lacado

Douille en aluminium injecté laqué

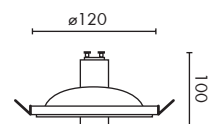
**QR-111**



Ref.	Socket	V	W	Gear	Photometric
03059601 <input type="checkbox"/>	G53	12	Max. 100	NOT INCL.	130~145
03059602 <input type="checkbox"/>					
03059603 <input type="checkbox"/>					



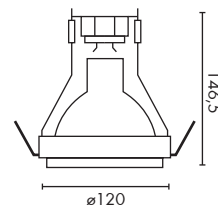
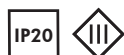
**CDM-R111**



Ref.	Socket	W	Photometric
03059701 <input type="checkbox"/>	GX8,5	20/35/70	146~157
03059702 <input type="checkbox"/>			
03059703 <input type="checkbox"/>			



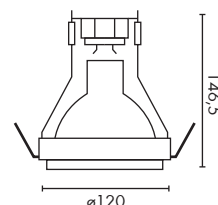
**HIT-T 12°**



Ref.	Socket	W	Gear	Photometric
03059901 <input type="checkbox"/>	G12	35/70/150	NOT INCL.	060 (35W)
03059902 <input type="checkbox"/>				061 (70W)
03059903 <input type="checkbox"/>				062 (150W)

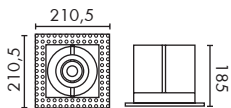
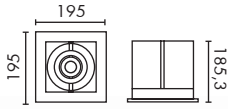


**HIT-T 38°**



Ref.	Socket	W	Gear	Photometric
03059801 <input type="checkbox"/>	G12	35/70/150	NOT INCL.	063 (35W)
03059802 <input type="checkbox"/>				064 (70W)
03059803 <input type="checkbox"/>				065 (150W)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**MORRIS body for 1 lampholder**

Die cast aluminium square cardan luminaire for a lamp adjustable to different types of sockets: QR-111, CDM-R111 and HIT-T with 12° and 38° reflector.

**MORRIS cuerpo para 1 portalámparas**

Luminaria tipo cardan cuadrada en acero lacado para una lámpara adaptable a diferentes tipos de portalámparas: QR-111, CDM-R111 y HIT-T con reflector de 12° y 38°.

**MORRIS corps pour 1 douille**

Luminaire cardan carré en aluminium injecté pour une ampoule adaptable à différents types de douilles: QR-111, CDM-R111 y HIT-T avec réflecteur de 12° et 38°.

SUITABLE FOR ADAPTABLE ADAPTABLE POUR  
QR-111 CDM-R111 HIT-T

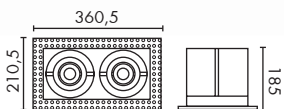
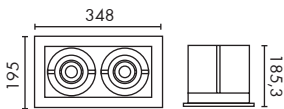


Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03050101	<input type="checkbox"/>				
03050102	1	-	-	NOT INCL.	-
03050103	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03090102	<input checked="" type="checkbox"/>	1	-	NOT INCL.	-

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)



**MORRIS body for 2 lampholders**

Die cast aluminium cardan luminaire for a lamp adjustable to different types of sockets: QR-111, CDM-R111 and HIT-T with 12° and 38° reflector.

**MORRIS cuerpo para 2 portalámparas**

Luminaria tipo cardan rectangular en acero lacado para dos lámparas adaptable a diferentes tipos de portalámparas: QR-111, CDM-R111 y HIT-T con reflector de 12° y 38°.

**MORRIS corps pour 2 douilles**

Luminaire cardan rectangulaire en aluminium injecté pour une ampoule adaptable à différents types de douilles: QR-111, CDM-R111 y HIT-T avec réflecteur de 12° et 38°.

SUITABLE FOR ADAPTABLE ADAPTABLE POUR  
QR-111 CDM-R111 HIT-T



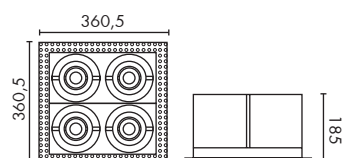
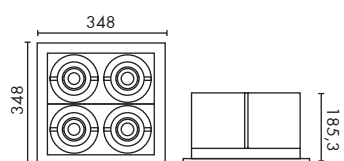
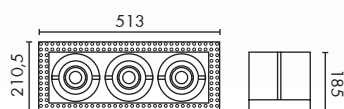
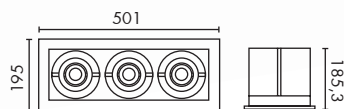
Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03050201	<input type="checkbox"/>				
03050202	2	-	-	NOT INCL.	-
03050203	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03090202	<input checked="" type="checkbox"/>	2	-	NOT INCL.	-

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



### MORRIS body for 3 lampholders

Die cast aluminium cardan luminaire for a lamp adjustable to different types of sockets: QR-111, CDM-R111 and HIT-T with 12° and 38° reflector.

### MORRIS cuerpo para 3 portalámparas

Luminaria tipo cardan rectangular en acero lacado para tres lámparas adaptable a diferentes tipos de portalámparas: QR-111, CDM-R111 y HIT-T con reflector de 12° y 38°.

### MORRIS corps pour 3 douilles

Luminaire cardan rectangulaire en aluminium injecté pour une ampoule adaptable à différents types de douilles: QR-111, CDM-R111 y HIT-T avec réflecteur de 12° et 38°.

#### SUITABLE FOR ADAPTABLE ADAPTABLE POUR QR-111 CDM-R111 HIT-T



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03050301	<input type="checkbox"/>				
03050302	3	-	-	NOT INCL.	-
03050303	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03090302	<input checked="" type="checkbox"/>				
	3	-	-	NOT INCL.	-

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

### MORRIS body for 4 lampholders

Die cast aluminium square cardan luminaire for a lamp adjustable to different types of sockets: QR-111, CDM-R111 and HIT-T with 12° and 38° reflector.

### MORRIS cuerpo para 4 portalámparas

Luminaria tipo cardan rectangular en acero lacado para cuatro lámparas adaptable a diferentes tipos de portalámparas: QR-111, CDM-R111 y HIT-T con reflector de 12° y 38°.

### MORRIS corps pour 4 douilles

Luminaire cardan carré en aluminium injecté pour une ampoule adaptable à différents types de douilles: QR-111, CDM-R111 y HIT-T avec réflecteur de 12° et 38°.

#### SUITABLE FOR ADAPTABLE ADAPTABLE POUR QR-111 CDM-R111 HIT-T



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03050401	<input type="checkbox"/>				
03050402	4	-	-	NOT INCL.	-
03050403	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03090402	<input checked="" type="checkbox"/>				
	4	-	-	NOT INCL.	-

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)





The **FALCON** family is a series of recessed devices for halogen QR-CB-51 lamps. The body of the luminaire is made of black lakked steel and the frame is made of steel. It is available in 3 paint finish: white, black and grey.

Also available in a version without external frame but including metal mounting edge brackets.

La familia FALCON es una serie de empotrables para lámparas halógenas QR-CB51. El cuerpo de la luminaria es de acero lacado negro y el marco es de acero disponible en 3 acabados de pintura: blanco, negro y gris. También disponible la versión sin marco exterior que incluye un premarco de montaje metálico para conseguir que la luminaria quede perfectamente integrada en la superficie.

La famille FALCON est une série d'encastrables pour ampoules halogènes QR-CB-51. Le corps du luminaire est en acier laqué noir et l'encadrement est en acier disponible en 3 finitions de peinture: blanc, noir et gris. Également disponible une version sans cadre extérieur qui comprend un pré-cadre de montage métallique.

### Materials

The frame of the luminaire is made of steel available in 3 finish, white, black and grey with a black lacquered body.

### Materiales

El marco de la luminaria es de acero disponible en 3 acabados blanco, negro y gris con cuerpo en acero lacado negro.

### OVERVIEW DETAILLES DÉTAILS



### Matériaux

L'encadrement du luminaire est en acier disponible en trois finitions, blanc, noir et gris avec corps en acier laqué noir.

### Versatility

In all the luminaires, the rings that house the lamps are totally 360° multi-directional in order to allow a complete control of the light beam.

### Versatilidad

En todas las luminarias los aros que alojan las lámparas son totalmente orientables a 360°, para permitir un control total sobre el haz de luz.



### Versatilité

Pour tous les luminaires les anneaux qui logent les ampoules sont totalement orientables à 360°, pour permettre un contrôle total du faisceau de lumière.



### Substitution of lamps

The trim ring is removable to facilitate the substitution of the lamp.

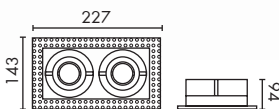
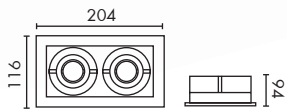
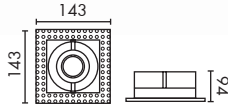
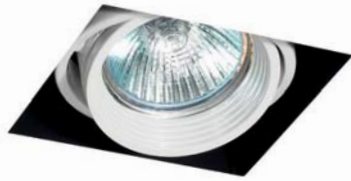
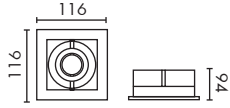
### Reposición lámparas

El aro embellecedor es extraíble para facilitar la reposición de la lámpara.

### Remplacement des lampes

L'anneau enjoliveur est extractible pour faciliter le remplacement de la ampoule.





**FALCON 1 spot downlight for QR-CB51**  
Multi-directional recessed luminaire, cardan type in steel.

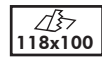
**FALCON luminaria empotrable para 1 lámpara QR-CB51**  
Luminaria empotrable orientable 360° tipo cardan en acero.

**FALCON luminaria encastrable 1 spot pour QR-CB51**  
Luminaria encastrable orientable à 360° type cardan en acier.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03020101	<input type="checkbox"/>				
03020102	<input checked="" type="checkbox"/> 1 x GU5.3	12	Max. 50	NOT INCL.	123~129
03020103	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03100101	<input type="checkbox"/>				
03100102	<input checked="" type="checkbox"/> 1 x GU5.3	12	Max. 50	NOT INCL.	123~129

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

**FALCON 2 spots downlight for QR-CB51**  
Multi-directional recessed luminaire, cardan type in steel

**FALCON empotrable para 2 lámparas QR-CB51**  
Luminaria empotrable orientable 360° tipo cardan en acero.

**FALCON luminaria encastrable 2 spots pour QR-CB51**  
Luminaria encastrable orientable à 360° type cardan en acier.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03020201	<input type="checkbox"/>				
03020202	<input checked="" type="checkbox"/> 2 x GU5.3	12	Max. 50	NOT INCL.	123~129
03020203	<input checked="" type="checkbox"/>				



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03100201	<input type="checkbox"/>				
03100202	<input checked="" type="checkbox"/> 2 x GU5.3	12	Max. 50	NOT INCL.	123~129

Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



**FALCON 3 spots downlight for QR-CB51**

Multi-directional recessed luminaire, cardan type in steel.

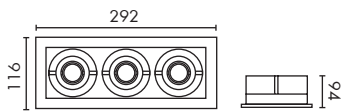
**FALCON empotrable para 3 lámparas QR-CB51**

Luminaria empotrable orientable 360° tipo cardan en acero.

**FALCON luminaire encastrable 3 spots pour QR-CB51**

Luminaire encastrable orientable à 360° type cardan en acier.

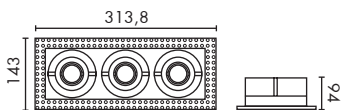
**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
<b>WITH FRAME CON MARCO AVEC ENCADREMENT</b>					
03020301					
03020302	3 x GU5.3	12	Max. 50	NOT INCL.	123~129
03020303					



**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
<b>WITHOUT FRAME SIN MARCO SANS ENCADREMENT</b>					
03100301					
03100302	3 x GU5.3	12	Max. 50	NOT INCL.	123~129

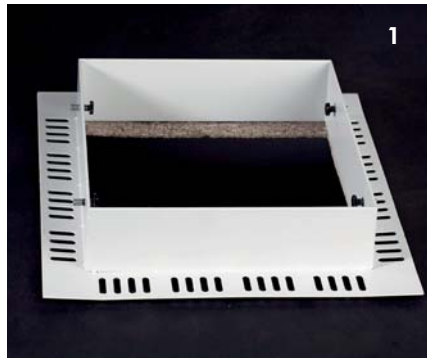
Mounting accessory included (See page 99) Accesorio de montaje incluido (Ver pág. 99)  
Accessoire de montage inclus (Voir page 99)

**WITHOUT FRAME MOUNTING**  
**MONTAJE SIN MARCO**  
**ASSEMBLÉE SANS ENCADREMENT**

Mounting accessory: The support is fastened on the ceiling.

Accesorio de montaje: Se fija el soporte en el techo.

Réaliser le trou nécessaire dans la surface de montage.



The structure, previously connected to the mains, is attached to the ceiling.

Se encaja la estructura de la luminaria previamente conectada a la toma de luz.

On emboîte la structure de la lumière préalablement connectée à la prise.



The position of the luminaire is regulated by means of the bolts.

Se retoca el perfil del agujero de empotrar para que la luminaria quede encajada perfectamente.

On retouche le profil du trou d'encastrement pour que le luminaire s'emboîte parfaitement.



The profile of the embedding hole is retouched so the luminaire is perfectly fitted.

Se regula la posición de la luminaria gracias a las tuercas.

On règle la position du luminaire grâce aux écrous.







The **MAYER** family is a series of recessed for QRCB-51 halogen lamps. The lamps are fitted on the top of the luminaire to prevent dazzling and are 45° multi-directional.

La familia MAYER es una serie de empotrables para lámparas halógenas QR-CB51. Las lámparas van colocadas en la parte superior de la luminaria para evitar deslumbramientos y son orientables a 45°.

La famille MAYER est une série d'encastrables pour ampoules halogènes QRCB-51. Les ampoules sont placées sur la partie supérieure du luminaire afin d'éviter les éblouissements et s'orientent à 45°.

OVERVIEW DETAILLES DÉTAILS

**Visual confort**

The lamps are housed on the top of the luminaire to avoid dazzling and are 45° multi-directional.

**Confort visual**

Las lámparas quedan alojadas en la parte superior de la luminaria para evitar deslumbramientos y son orientables 45°.

**Confort visuel**

Les ampoules sont logées sur la partie supérieure du luminaire pour éviter les éblouissements et s'orientent à 45°.



**Substitution of lamps**

The lamps are placed inside the luminaire with a grip attached to the socket to facilitate its substitution.



**Remplacement des ampoules**

Les ampoules se placent dans le luminaire avec une pince appliquée à la douille, facilitant le remplacement.

**Reposición de lámparas**

Las lámparas se colocan dentro de la luminaria con una pinza extraíble aplicada al portalámparas, facilitando su reposición.

**Materials**

The frame of the luminaire is made of steel available in three finish: white, black and grey with a black lackered steel body.

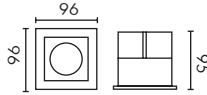
**Materiales**

El marco de la luminaria es de acero disponible en tres acabados blanco, negro y gris con cuerpo en acero lacado en negro.



**Matériaux**

L'encadrement du luminaire est en acier disponible en trois finitions, blanc, noir et gris avec un corps en acier laqué en noir.



**MAYER 1 spot downlight for QR-CB51**  
45° orientable downlight in steel.

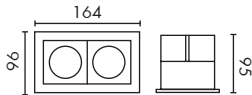
**MAYER luminaria empotrable para 1 lámpara QR-CB51**  
Luminaria empotrable orientable 45° en acero.

**MAYER luminaire encastrable 1 spot pour QR-CB51**  
Luminaire encastré orientable à 45° en acier.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
03010101	□				
03010102	■ 1 x GU5.3	12	Max. 50	NOT INCL.	-
03010103	■				



**MAYER 2 spots downlight for QR-CB51**  
45° orientable downlight in steel.

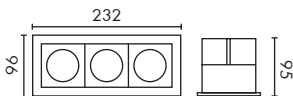
**MAYER luminaria empotrable para 2 lámparas QR-CB51**  
Luminaria empotrable orientable 45° en acero.

**MAYER luminaire encastrable 2 spots pour QR-CB51**  
Luminaire encastré orientable à 45° en acier.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
03010201	□				
03010202	■ 2 x GU5.3	12	Max. 50	NOT INCL.	-
03010203	■				



**MAYER 3 spots downlight for QR-CB51**  
45° orientable downlight in steel.

**MAYER luminaria empotrable para 3 lámparas QR-CB51**  
Luminaria empotrable orientable 45° en acero.

**MAYER luminaire encastrable 3 spots pour QR-CB51**  
Luminaire encastré orientable à 45° en acier.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
03010301	□				
03010302	■ 3 x GU5.3	12	Max. 50	NOT INCL.	-
03010303	■				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







The **KANT** series is made up with recessed luminaires for QR-CB51 fixed, multidirectional, low luminance and IP65, besides being a model with LED technology in die cast aluminium with white and grey finish.

La serie KANT está compuesta por luminarias empotrables para QR-CB51 fijo, orientable, baja luminancia e IP65, además de un modelo con tecnología LED, todos fabricados en aluminio inyectado con acabados blanco y gris.

La série KANT se compose de luminaires encastrables pour QR-CB51 fixe, orientable, basse luminance et IP65, de plus d'un modèle à technologie LED, tous fabriqués en aluminium injecté avec finitions en blanc et gris.

OVERVIEW DETALLES DÉTAILS



**Electrical connection**  
Fastening springs in the socket to ensure a correct connection.  
**Removable frame**  
Includes a removable frame to facilitate the substitution of the lamp.

**Conexión eléctrica**

Muelles de sujeción en el portalámparas para asegurar una correcta conexión.

**Marco extraíble**

Incluye marco extraíble para facilitar la reposición de la lámpara.

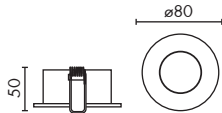


**Connexion électrique**

Les ressorts de fixation dans les douilles afin d'assurer une connexion correcte.

**Encadrement extractible**

Inclut un encadrement extractible pour faciliter le remplacement de la ampoule.



**KANT downlight lamp IP 65 for QR-CB51**

Downlight lamp die cast aluminium made for QR-CB51 bulb max. 50 W, IP65, with glass diffuser.

**KANT luminaria empotrable IP 65 para QR-CB51**

Luminaria empotrable fija en aluminio inyectado para lámpara QR-CB51 máx. 50 W, IP65, dotada de difusor de cristal.

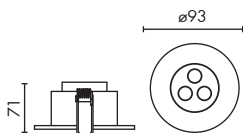
**KANT luminaire encastrable IP 65 pour QR-CB51**

Luminaire encastrable fixe en aluminium pour ampoule QR-CB51 max. 50 W, IP65, dotée de difusor de verre.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
40225 <input type="checkbox"/>	1 x GU5.3	12	Max. 50	NOT INCL.	123~129
40215 <input type="checkbox"/>					



**KANT downlight lamp for LED 9 W**

Recessed downlight in die cast aluminium made with 3 POWER LED of 3 W.

**KANT luminaria empotrable para LED 9 W**

Luminaria empotrable orientable en aluminio inyectado con 3 POWER LED de 3 W.

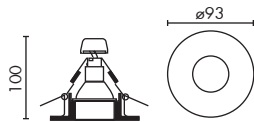
**KANT luminaire encastrable pour LED 9 W**

Luminaire encastrable orientable en aluminium injecté avec 3 POWER LED de 3 W.

**CREE**



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
03060401 <input type="checkbox"/>	9	700	275	3000-3500	< 85	45	NOT INCL.	073
03060403 <input type="checkbox"/>								
03060501 <input type="checkbox"/>	9	700	325	5000-6000	< 85	45	NOT INCL.	074
03060503 <input type="checkbox"/>								



#### KANT downlight lamp for QR-CB51

Downlight lamp die cast aluminium made for QR-CB51 bulb.

#### KANT luminaria empotrable para QR-CB51

Luminaria empotrable fija fabricada en aluminio inyectado para lámpara QR-CB51.

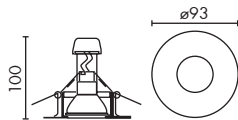
#### KANT luminaire encastrable pour QR-CB51

Luminaire encastrable fixe en aluminium pour ampoule QR-CB51.

#### QR-CB51



Ref.	Socket	V	W	Gear	Photometric
03060101 <input type="checkbox"/>	1 x GU5.3	12	Max. 50	NOT INCL.	123~129
03060103 <input type="checkbox"/>					



#### KANT orientable downlight lamp for QR-CB51

Orientable downlight lamp die cast aluminium made for QR-CB51 bulb max. 50 W.

#### KANT luminaria empotrable orientable para QR-CB51

Luminaria empotrable orientable en aluminio inyectado para lámpara QR-CB51 máx. 50 W.

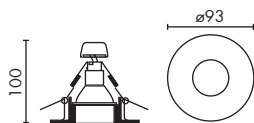
#### KANT luminaire encastrable orientable pour QR-CB51

Luminaire encastrable orientable pour ampoule QR-CB51 max. 50 W.

#### QR-CB51



Ref.	Socket	V	W	Gear	Photometric
03060201 <input type="checkbox"/>	1 x GU5.3	12	Max. 50	NOT INCL.	123~129
03060203 <input type="checkbox"/>					



#### KANT downlight lamp for QR-CB51

Low luminance downlight lamp die cast aluminium made for QR-CB51 bulb max. 50 W.

#### KANT luminaria empotrable de baja luminancia para QR-CB51

Luminaria empotrable fija de baja luminancia en aluminio inyectado para lámpara QR-CB51 máx. 50 W.

#### KANT luminaire encastrable pour QR-CB51

Luminaire encastrable fixe basse luminance pour ampoule QR-CB51 max. 50 W.

#### QR-CB51



Ref.	Socket	V	W	Gear	Photometric
03060301 <input type="checkbox"/>	1 x GU5.3	12	Max. 50	NOT INCL.	123~129
03060303 <input type="checkbox"/>					

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



Hotel Andante (Barcelona)



The **LYNX** family comprises three high-brightness LED luminaires with 3, 6 and 15 LED. Available in warm and natural light.

**NUSA** multi-directional LED recessed of 7W. With 38° reflector. Made of aluminium. Available in warm and natural light.

La familia LYNX está compuesta por tres luminarias LED de alta luminosidad de 3, 6 y 15 LED. Disponibles en luz cálida y natural. NUSA Es un empotrable de LED orientable, de 7W con reducidas dimensiones y reflector de 38°. Fabricado en aluminio y disponible en luz cálida y natural.

La gamme LYNX comprend trois luminaires LED à haute luminosité de 3, 6 et 15 LED. Disponibles en lumière chaude et naturelle. NUSA est luminaire encastrable LED de 7W à dimensions réduites, son réflecteur est de 38°. Fabricquée en aluminium. Disponibles en lumière chaude et naturelle



**LYNX 3 LED recessed adjustable fixture**

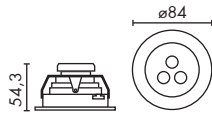
Recessed, aluminium LED luminaire with 3 high-power LEDs.

**LYNX empotrable orientable 3 LED**

Luminaria LED empotrada de aluminio con 3 LED de alta potencia.

**LYNX encastrable orientable 3 LED**

Luminaire LED encastré en aluminium avec 3 LED haute puissance.



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
03070501	3	350	180	2700	< 80	15	NOT INCL.	066
03070601	3	350	200	4000	< 80	15	NOT INCL.	067



**LYNX 6 LED recessed adjustable fixture**

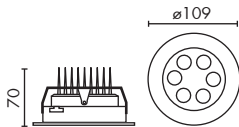
Recessed, aluminium LED luminaire with 6 high-power LEDs.

**LYNX empotrable orientable 6 LED**

Luminaria LED empotrada de aluminio con 6 LED de alta potencia.

**LYNX encastrable orientable 6 LED**

Luminaire LED encastré en aluminium avec 6 LED haute puissance.



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
03070701	6	350	373	2700	< 80	45	NOT INCL.	068
03070801	6	350	402	4000	< 80	45	NOT INCL.	069



**LYNX 15 LED recessed adjustable fixture**

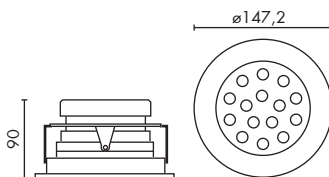
Recessed, aluminium LED luminaire with 15 high-power LEDs.

**LYNX empotrable orientable 15 LED**

Luminaria LED empotrada de aluminio con 15 LED de alta potencia.

**LYNX encastrable orientable 15 LED**

Luminaire LED encastré en aluminium avec 15 LED haute puissance.



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
03070901	15	350	905	2700	< 80	45	NOT INCL.	070
03071001	15	350	1136	4000	< 80	45	NOT INCL.	071



**NUSA LED recessed  
Luminaire**

Multi-directional recessed luminaire made from aluminium. Available in warm and natural light.

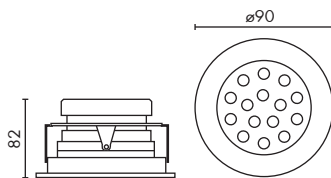
**NUSA luminaria empotrable de LED**

Luminaria empotrable orientable en aluminio. Disponible en luz cálida y natural.

**NUSA luminaire LED encastrable**

Luminaire encastrable et orientable en aluminium. Disponible en lumière chaude et naturelle.

**LED NEW**



Ref.	W	mA	V	Lm	K	X°	Driver	Photometric
02090101 <input type="checkbox"/>	7	350	100-240	550	2700	38	INCL.	-
02090201 <input type="checkbox"/>	7	350	100-240	550	4000	38	INCL.	-



\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



Hotel Andante (Barcelona)





**COMPACT** is a group of downlights with IP65; available in two formats: round and square. It comes in white, with a 36° reflector, made from aluminium.

COMPACT es una familia de downlights con IP65 disponible en dos formatos: redondo y cuadrado. De color blanco y con reflector de 36°, está fabricado en aluminio.

COMPACT  
C'est une famille de downlights avec un IP65 disponible en deux formats: rond et carré. De couleur blanche et avec un réflecteur de 36°, il est fabriqué en aluminium.

### Leaktightness

A group especially designed to be installed in places which require a high level of leaktightness.

### Estanqueidad

Familia diseñada especialmente para ser instalada en locales donde se necesite un alto grado de estanqueidad.

### Etanchéité

Famille conçue spécialement pour être installée dans des locaux où un haut taux d'étanchéité est nécessaire.

### OVERVIEW DETALLES DÉTAILS



### High-Purity Reflector

The high-purity aluminium reflector offers improved light efficiency.

### Reflector de alta pureza

El reflector de aluminio de alta pureza ofrece un mejor rendimiento lumínico.

### Réflecteur de haute pureté

Le réflecteur d'aluminium de haute pureté offre un meilleur rendement lumineux.



### Compact Recessed Luminaire IP65

Recessed luminaire, available in white and made from aluminium. With IP65 and 36° reflector.

### Compact luminaria empotrable IP65

Luminaria empotrable disponible en blanco y fabricada en aluminio. Su reflector es de 36° y tiene IP65.

### Compact luminaire encastrable IP65

Luminaire encastrable disponible en blanc et fabriqué en aluminium. Son réflecteur est de 36° et il présente un IP65

#### LED NEW



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02080101 □	15	350	1000	3000	>80	36	NOT INCL.	

#### Recommended Driver

98310125	normal
98311599	DALI



#### LED NEW

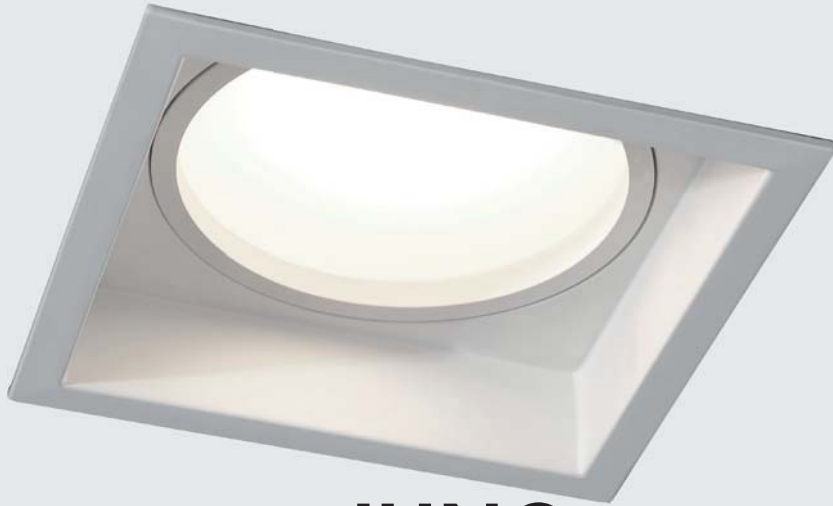


Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02070101 □	15	350	1000	3000	>80	36	NOT INCL.	-

#### Recommended Driver

98310125	normal
98311599	DALI





**JUNO** is a compact, LED downlight. Available in round and square versions.

Available in black, white and grey.

JUNO es un downlight de LED, de reducidas dimensiones. En formato redondo y cuadrado. Disponible en negro, blanco y gris.

JUNO est un downlight LED aux dimensions réduites. En format rond ou carré. Disponible en noir, blanc et gris.

### Heat dissipator

All the models have an heat dissipator to ensure maximum life of the LED.

### Disipador de calor

Incorpora disipador de calor para facilitar la circulación del aire y aumentar la vida útil de la lámpara.

### Dissipateur de chaleur

Tous les modèles incorporent un dissipateur de chaleur en aluminium pour maintenir la température optimale du LED et garantir la maxime durée de vie maximum de celui-ci.

## OVERVIEW DETALLES DÉTAILS



### Anchoring system

The anchoring system of all the models guarantee the ideal fastening pressure to place the luminaire on any kind of surface.

### Sistema de anclaje

El sistema de anclaje de todos los modelos garantiza la presión de agarre ideal para colocar la luminaria en cualquier tipo de superficie.

### Système de fixation

Le système de fixation de tous les modèles garantit la pression de prise idéale pour placer le luminaire sur n'importe quelle surface.

### Opal ABS difusser

The difusser is made of opal ABS in order to achieve a perfect visual comfort.

### Difusor ABS opal

Difusor en ABS opal para conseguir un alto confort visual.

### Difuseur ABS opal

Le diffuseur est en opale ABS pour obtenir un confort visuel optimal.





**JUNO recessed, fixed luminaire for 15W LED, square**

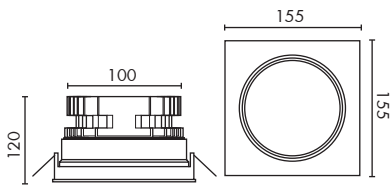
15W LED recessed luminaire, in aluminium, with 60° reflector and opal ABS diffuser.

**JUNO luminaria empotrable fija para LED 15W en formato cuadrado**

Luminaria empotrable LED 15W, en aluminio, con reflector de 60° y difusor opal de ABS.

**JUNO Luminaire encastrable fixe pour LED 15W format carré**

Luminaire encastrable LED 15W, en aluminium, avec réflecteur 60° et diffuseur opale en ABS.



**EPISTAR**



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02060101	15	350	885	4000	< 80	60	NOT INCL.	072

**Recommended Driver**

98310125	normal
----------	--------



**JUNO recessed, fixed luminaire for 15W LED, round**

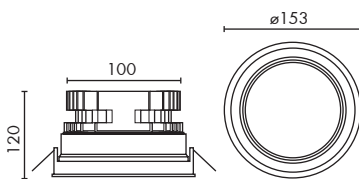
15W LED recessed luminaire, in aluminium, with 60° reflector and opal ABS diffuser.

**JUNO luminaria empotrable fija para LED 15W en formato redondo**

Luminaria empotrable LED 15W, en aluminio, con reflector de 60° y difusor opal de ABS.

**JUNO Luminaire encastrable fixe pour LED 15W format rond**

Luminaire encastrable LED 15W, en aluminium, avec réflecteur 60° et diffuseur opale en ABS.



**EPISTAR**



Ref.	W	mA	Lm	K	CRI	X°	Driver	Photometric
02060201	15	350	885	4000	< 80	60	NOT INCL.	072

**Recommended Driver**

98310125	normal
----------	--------

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







**NEU** is a downlight recessed luminaire for MR16 made from gipsum.

**ARTIC** is a downlight recessed LED recessed luminaire made from gipsum.

**YES** is a recessed luminaire for QR-111. Gimbal type, square and swivable 360°, plaster finish.

NEU es una luminaria empotrable para MR16 fabricada en yeso.

ARTIC es una luminaria empotrable de LED fabricada en yeso.

YES es una luminaria empotrable para QR-111. Tipo cardan, cuadrada y orientable a 360°, acabada en yeso.

NEU est une luminaire encastrable pour MR16 fabriquée en plâtre.

ARTIC est une LED luminaire encastrable fabriquée en plâtre.

YES est une luminaire lumineuse encastrable pour QR-111. De type cardan, carré et orientable à 360°, finition en plâtre.

**Perfectly integrated**

The plaster makes the luminaire is integrated into the roof evenly.

**Perfectamente integrado**

El yeso permite que la luminaria se integre perfectamente en el techo uniformemente.

**Parfaitement intégrée**

Le plâtre fait la lumière est intégrée dans le toit uniformément.

**OVERVIEW** DETALLES DÉTAILS



**Opal ABS difusser**

The difusser is made of opal ABS in order to achieve a perfect visual comfort.

**Difusor ABS opal**

Difusor en ABS opal para conseguir un alto confort visual.

**Difusueur ABS opal**

Le diffuseur est en opale ABS pour obtenir un confort visuel optimal.

**Multi-directional**

All the models are 30° multi-directional on their horizontal axis, allowing thus a total control of the light beam.

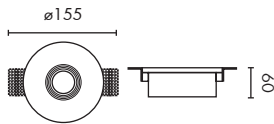
**Orientable**

Todos los modelos son orientables 30° sobre el eje horizontal, permitiendo mantener un control total sobre el haz de luz.



**Orientable**

Tous les modèles sont orientables 30° sur l'axe horizontal, permettant de maintenir un contrôle total sur le faisceau de lumière.



**NEU**  
Recessed luminaire for MR16 made from gypsum.

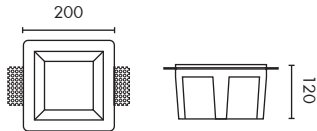
**NEU**  
Luminaria empotrable para MR16 fabricada en yeso.

**NEU**  
Luminaire encastrable pour MR16 fabriquée en plâtre.

**QR-CB51**



Ref.	Socket	V	W	Gear	Photometric
63286 □	1 x GU5.3	12	35	NOT INCL.	-



**ARTIC**  
LED recessed luminaire made from gypsum.

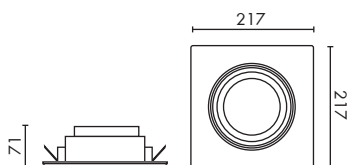
**ARTIC**  
Luminaria empotrable de LED fabricada en yeso.

**ARTIC**  
LED luminaire encastrable fabriquée en plâtre.

**LED**



Ref.	W	Gear	Photometric
63287 □	35	NOT INCL.	-



**YES square, recessed ceiling luminaire**  
Recessed luminaire for QR-111. Gimbal type, square and swivable 360°, plaster finish.

**YES luminaria empotrable en techo cuadrada**  
Luminaria empotrable para QR-111. Tipo cardan, cuadrada y orientable a 360°, acabada en yeso.

**YES luminaire carré encastrable au plafond**  
Luminaire encastrable pour QR-111. De type cardan, carré et orientable à 360°, finition en plâtre.

**QR-111**



Ref.	Socket	mA	W	Gear	Photometric
63280 □	1 x G53	350	Max. 50	NOT INCL.	130~131, 138~142



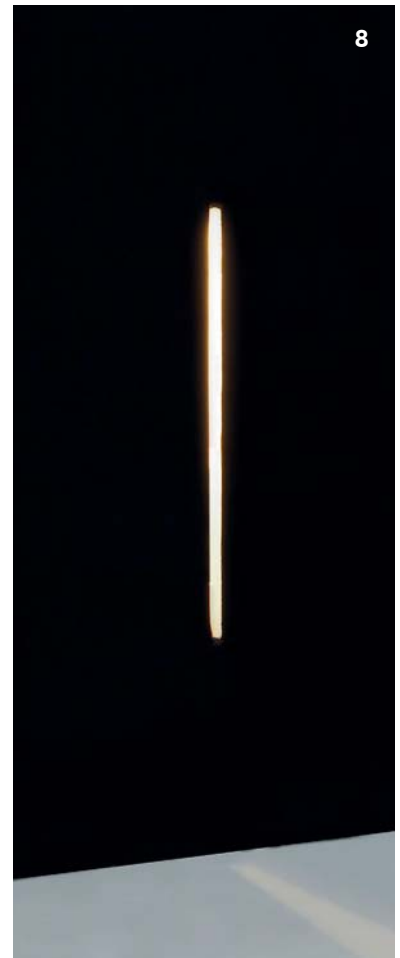
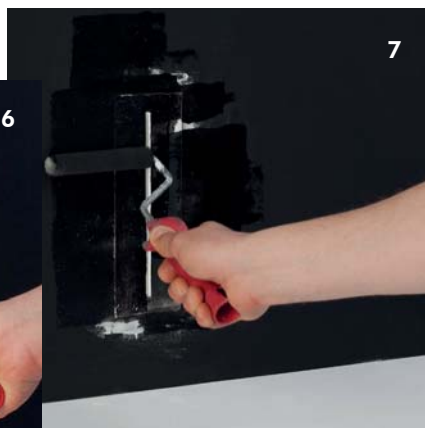
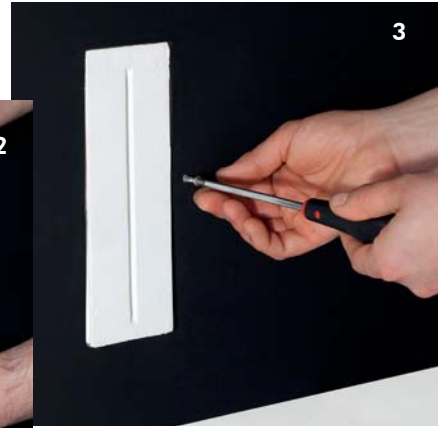
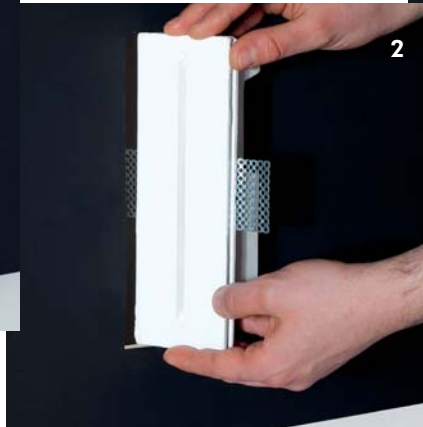


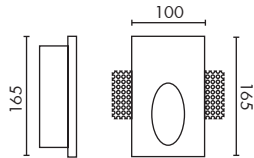
The **PLAS** family comprises three wall-recessed fixtures with a 1W, 3000K LED.

La familia PLAS se compone de 3 empotrables de pared con LED de 1W 3000K.

La gamme PLAS est composée de 3 encastrables au mur avec LED 1W 3000K.

**PLAS INSTALLATION**  
INSTALACIÓN PLAS  
INSTALLATION PLAS





**PLAS 1 rectangular recessed luminaire**  
Wall-recessed fixture, rectangular. Finished in plaster, for 1W LED.

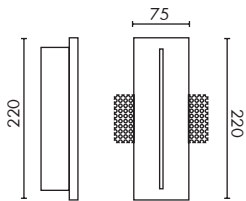
**PLAS 1 luminaria empotrable rectangular**  
Luminaria empotrable en pared de formato rectangular. Acabada en yeso, para LED 1W.

**PLAS 1 luminaire encastrable rectangulaire**  
Luminaire encastrable au mur de forme rectangulaire. Finition en plâtre, pour LED 1W.

**LED**



Ref.	W	mA	Lm	K	CRI	Driver	Photometric
63281 □	1	350	63	3000	80	NOT INCL.	078



**PLAS 2 rectangular recessed luminaire**  
Wall-recessed fixture, rectangular. Finished in plaster, for 1W LED.

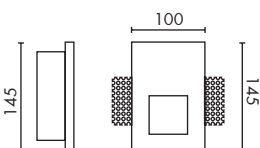
**PLAS 2 luminaria empotrable rectangular**  
Luminaria empotrable en pared de formato rectangular. Acabada en yeso, para LED 1W.

**PLAS 2 luminaire encastrable rectangulaire**  
Luminaire encastrable au mur de forme rectangulaire. Finition en plâtre, pour LED 1W.

**LED**



Ref.	W	mA	Lm	K	CRI	Driver	Photometric
63282 □	1	350	22	3000	80	NOT INCL.	079



**PLAS 3 rectangular recessed luminaire**  
Wall-recessed fixture, rectangular. Finished in plaster, for 1W LED.

**PLAS 3 luminaria empotrable rectangular**  
Luminaria empotrable en pared de formato rectangular. Acabada en yeso, para LED 1W.

**PLAS 3 luminaire encastrable rectangulaire**  
Luminaire encastrable au mur de forme rectangulaire. Finition en plâtre, pour LED 1W.

**LED**

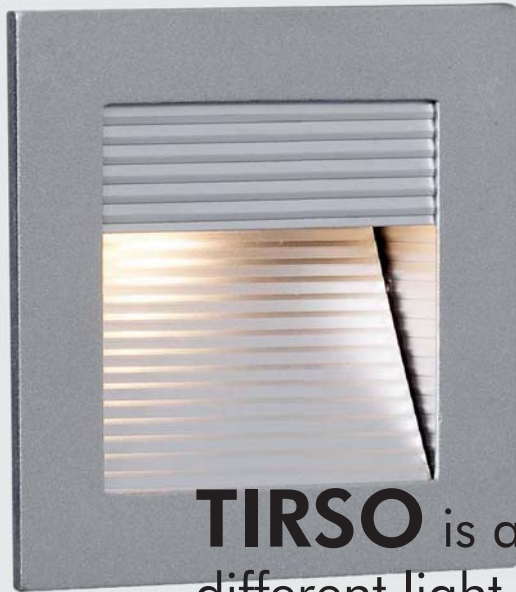


Ref.	W	mA	Lm	K	CRI	Driver	Photometric
63283 □	1	350	65	3000	80	NOT INCL.	080

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







**TIRSO** is a wall-recessed for different light source: G5,3 JC PIN, G24d-1, LED and R7S JP118MM.

**DOLE** is a wall-recessed 1.2W LED, with warm light.

The **KOPEK** model for POWER-LED is made in just one aluminium piece, which ensures a high rate of protection (IP65).

TIRSO es un empotrable para diferentes fuentes lumínicas: G5,3 JC PIN, G24d-1, LED y R7S JP118MM.

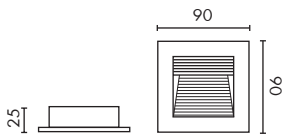
DOLE es un empotrable de pared LED de 1,2W, con luz cálida.

El modelo KOPEK para POWERLED está fabricado en una sola pieza de aluminio lo que nos asegura un alto índice de protección (IP65).

TIRSO est un luminaire encastrable pour: G5,3 JC PIN, G24d-1, LED and R7S JP118MM.

DOLE est un Luminaire mural encastrable à LED de 1,2W, lumière chaude.

Le modèle KOPEK pour POWERLED est fabriqué en une seule pièce en aluminium ce qui nous garantit un haut taux de protection (IP65).



**Square DOLE recessed luminaire**

Square cast aluminium recessed luminaire with one OSRAM 1.2 W LEDs.

**DOLE luminaria empotrable cuadrada**

Luminaria empotrable cuadrada en aluminio inyectado con un LED OSRAM de 1,2W.

**DOLE luminaire encastrable carré**

Luminaire encastrable carré en aluminium injecté avec un LED OSRAM de 1,2W.

**LED**



Ref.	W	mA	Lm	K	CRI	Driver	Photometric
06030101	1,2	350	35	2800-3250	< 80	NOT INCL.	075
06030103							



**Mortise-recessed metal box**

Not included

**Caja metálica de empotrar**

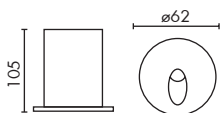
No incluida

**Châssis métallique à encastrer**

Non incluse

**Ref.**

06990101



**KOPEK round downlight**

Round recessed 3 W POWER LED in aluminium.

**KOPEK luminaria empotrable circular**

Luminaria empotrable circular en aluminio de 1 POWER LED de 3 W.

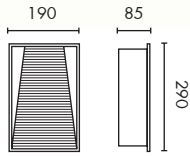
**KOPEK luminaire encastrable circulaire**

Luminaire encastrable circulaire en aluminium de POWER LED de 3 W.

**LED**



Ref.	W	mA	Lm	K	CRI	Xº	Driver	Photometric
06010103	3	700	46	6500	85	38	NOT INCL.	076
06010303	3	700	54	3000	85	38	NOT INCL.	077



**TIRSO recessed luminaire**

**TIRSO luminaria empotrable**

**TIRSO luminaire encastrable**

**COB LED**



Ref.	W	Lm	K	Driver	Photometric
46027	3	130	4200	INCL.	-

**R7S JP118MM**



Ref.	Socket	W	Photometric
46029	1xR7S JP118MM	100	-

**G24d-1**

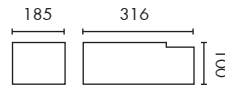


Ref.	Socket	W	Gear	Photometric
46030	1xG24d-1	13	Magnetic INCL.	-

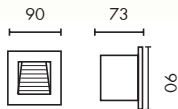
**Mortise-recessed metal box (Not included)**

**Caja metálica de empotrar (No incluida)**

**Châssis métallique à encastrer (Non incluse)**



Ref.
46028



**G5.3 JC PIN**

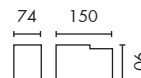


Ref.	Socket	W	Gear	Photometric
46031	1xG5.3 JC PIN	50	NOT INCL.	-

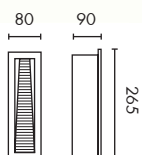
**Mortise-recessed metal box (Not included)**

**Caja metálica de empotrar (No incluida)**

**Châssis métallique à encastrer (Non incluse)**



Ref.
46028



**G5.3 JC PIN**

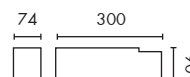


Ref.	Socket	W	Gear	Photometric
46032	1xG5.3 JC PIN	50	NOT INCL.	-

**Mortise-recessed metal box (Not included)**

**Caja metálica de empotrar (No incluida)**

**Châssis métallique à encastrer (Non incluse)**



Ref.
46034



SIGN **NEW** 134



LICI **NEW** 140



ORE **NEW** 144



NECKAR 152



MOTIVE 156



NITRO & OLEO 160



TIMBAL 164

SURFACE & SUSPENDED  
SUPERFICIE Y SUSPENSIÓN  
APPARENTS ET SUSPENSION





**SIGN** is a group of surface luminaires designed to house different light sources. It comes in white, black and gray. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles.

SIGN es una familia de luminarias de superficie diseñadas para poder alojar diferentes fuentes lumínicas. En blanco, negro y gris. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil.

SIGN est une famille de luminaires de superficie, conçus pour pouvoir loger différents types de sources lumineuses. En blanc, noir et gris. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible.

OVERVIEW DETALLES DÉTAILS

**Versatility**

Sign presents a structure that is prepared to house different light sources, ensuring the lamp's versatility and allowing it to adapt to different lighting requirements.

**Versatilidad**

Sign presenta una estructura que está preparada para alojar diferentes tipos de fuentes lumínicas garantizando la versatilidad del aparato y permitiendo adaptarse a las diferentes necesidades de iluminación.

**Versatilité**

Sign présente une structure qui est préparée pour loger différents types de sources lumineuses, garantissant la versatilité de l'appareil et lui permettant de s'adapter aux différents besoin d'illumination.



**High-Purity Reflector**

The high-purity aluminium reflector offers improved light efficiency.

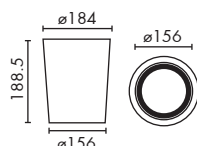
**Reflector de alta pureza**

El reflector de aluminio de alta pureza ofrece un mejor rendimiento lumínico.

**Réflecteur de grande pureté**

Le réflecteur d'aluminium, de grande pureté, offre un meilleur rendement lumineux.





### SIGN Surface Luminaire QR-111

Surface luminaire for QR-111 lamp, with electronic equipment included.

### SIGN luminaria superficie QR-111

Luminaria de superficie para lámpara QR-111 que incluye equipo electrónico.

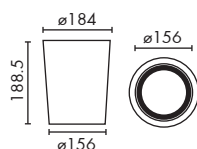
### SIGN luminaire de superficie QR-111

Luminaire de superficie pour lampe QR-111 qui inclut l'équipement électronique.

#### QR 111



Ref.	Socket	V	W	Gear	Photometric
05022701	<input type="checkbox"/>				
05022702	G53	12	Max. 100	Electronic INCL.	123~145
05022703	<input checked="" type="checkbox"/>				



### SIGN Surface Luminaire QR LED

Surface luminaire for QR LED lamp, with electronic equipment included.

### SIGN luminaria superficie QR LED

Luminaria de superficie para lámpara QR LED que incluye equipo.

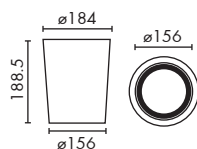
### SIGN luminaire de superficie QR LED

Luminaire de superficie pour lampe QR LED qui inclut l'équipement.

#### QR LED



Ref.	Socket	V	W	Gear	Photometric
05022801	<input type="checkbox"/>				
05022802	G53	12	5...25	Electronic INCL.	175~178
05022803	<input checked="" type="checkbox"/>				



### SIGN Surface Luminaire CDM-R111

Surface luminaire for CDM-R111 lamp, with electronic equipment included.

### SIGN luminaria superficie CDM-R111

Luminaria de superficie para lámpara CDM-R111 que incluye equipo electrónico.

### SIGN luminaire de superficie CDM-R111

Luminaire de superficie pour lampe CDM-R111 qui inclut l'équipement électronique.

#### CDM-R111



Ref.	Socket	W	Gear	Photometric
05022901	<input type="checkbox"/>			
05022902	GX8.5	20	Electronic INCL.	146-147
05022903	<input checked="" type="checkbox"/>			
05023101	<input type="checkbox"/>			
05023102	GX8.5	35	Electronic INCL.	148-149 / 153-154
05023103	<input checked="" type="checkbox"/>			
05023201	<input type="checkbox"/>			
05023202	GX8.5	70	Electronic INCL.	150-152 / 155-157
05023203	<input checked="" type="checkbox"/>			



**SIGN Surface Luminaire LED**

LED Surface luminaire. LED module version available for the lighting of food (fruit, vegetables, meat and fish) and textiles. Equipment included.

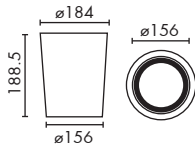
**SIGN luminaria superficie LED**

Luminaria de superficie de LED. Disponible versión con módulo LED para la iluminación de alimentos (fruta, verdura, carne y pescado) y textil. Equipo incluido.

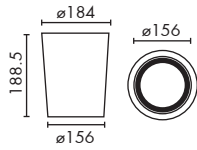
**SIGN luminaire de superficie LED**

Luminaire de superficie en LED. La version avec module LED pour l'illumination d'aliments (fruits, légumes, viande et poisson) et textiles, est disponible. Equipement inclus.

**LED 16W**



Ref.	W	Lm	K	CRI	Xº	Driver	Photometric	Ref. DALI
05020101 <input type="checkbox"/>	16	1750	3000	>80	20	INCL.	185	05020101D <input type="checkbox"/>
05020102 <input checked="" type="checkbox"/>								05020102D <input checked="" type="checkbox"/>
05020103 <input checked="" type="checkbox"/>								05020103D <input checked="" type="checkbox"/>
05020201 <input type="checkbox"/>	16	1750	3000	>80	56	INCL.	187	05020201D <input type="checkbox"/>
05020202 <input checked="" type="checkbox"/>								05020202D <input checked="" type="checkbox"/>
05020203 <input checked="" type="checkbox"/>								05020203D <input checked="" type="checkbox"/>
05020301 <input type="checkbox"/>	16	1800	4000	>80	20	INCL.	189	05020301D <input type="checkbox"/>
05020302 <input checked="" type="checkbox"/>								05020302D <input checked="" type="checkbox"/>
05020303 <input checked="" type="checkbox"/>								05020303D <input checked="" type="checkbox"/>
05020401 <input type="checkbox"/>	16	1800	4000	>80	56	INCL.	191	05020401D <input type="checkbox"/>
05020402 <input checked="" type="checkbox"/>								05020402D <input checked="" type="checkbox"/>
05020403 <input checked="" type="checkbox"/>								05020403D <input checked="" type="checkbox"/>
05021201 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	20	INCL.	193	05021201D <input type="checkbox"/>
05021202 <input checked="" type="checkbox"/>								05021202D <input checked="" type="checkbox"/>
05021203 <input checked="" type="checkbox"/>								05021203D <input checked="" type="checkbox"/>
05021301 <input type="checkbox"/>	16	1800	PEARL WHITE 3100	85	56	INCL.	195	05021301D <input type="checkbox"/>
05021302 <input checked="" type="checkbox"/>								05021302D <input checked="" type="checkbox"/>
05021303 <input checked="" type="checkbox"/>								05021303D <input checked="" type="checkbox"/>
05020501 <input type="checkbox"/>	16	1275	FRUIT 4000	85	20	INCL.	197	05020501D <input type="checkbox"/>
05020502 <input checked="" type="checkbox"/>								05020502D <input checked="" type="checkbox"/>
05020503 <input checked="" type="checkbox"/>								05020503D <input checked="" type="checkbox"/>
05020601 <input type="checkbox"/>	16	1275	FRUIT 4000	85	56	INCL.	199	05020601D <input type="checkbox"/>
05020602 <input checked="" type="checkbox"/>								05020602D <input checked="" type="checkbox"/>
05020603 <input checked="" type="checkbox"/>								05020603D <input checked="" type="checkbox"/>
05020701 <input type="checkbox"/>	16	1160	MEAT 4000	70	20	INCL.	205	05020701D <input type="checkbox"/>
05020702 <input checked="" type="checkbox"/>								05020702D <input checked="" type="checkbox"/>
05020703 <input checked="" type="checkbox"/>								05020703D <input checked="" type="checkbox"/>
05020801 <input type="checkbox"/>	16	1160	MEAT 4000	70	56	INCL.	207	05020801D <input type="checkbox"/>
05020802 <input checked="" type="checkbox"/>								05020802D <input checked="" type="checkbox"/>
05020803 <input checked="" type="checkbox"/>								05020803D <input checked="" type="checkbox"/>
05020901 <input type="checkbox"/>	16	1330	FISH 4000	85	20	INCL.	201	05020901D <input type="checkbox"/>
05020902 <input checked="" type="checkbox"/>								05020902D <input checked="" type="checkbox"/>
05020903 <input checked="" type="checkbox"/>								05020903D <input checked="" type="checkbox"/>
05021101 <input type="checkbox"/>	16	1330	FISH 4000	85	56	INCL.	203	05021101D <input type="checkbox"/>
05021102 <input checked="" type="checkbox"/>								05021102D <input checked="" type="checkbox"/>
05021103 <input checked="" type="checkbox"/>								05021103D <input checked="" type="checkbox"/>



### LED 26W



Ref.	W	Lm	K	CRI	X°	Driver	Photometric	Ref. DALI
05021401 <input type="checkbox"/>	26	2550	3000	>80	20	INCL.	186	05021401D <input type="checkbox"/>
05021402 <input type="checkbox"/>								05021402D <input type="checkbox"/>
05021403 <input type="checkbox"/>								05021403D <input type="checkbox"/>
05021501 <input type="checkbox"/>	26	2550	3000	>80	56	INCL.	188	05021501D <input type="checkbox"/>
05021502 <input type="checkbox"/>								05021502D <input type="checkbox"/>
05021503 <input type="checkbox"/>								05021503D <input type="checkbox"/>
05021601 <input type="checkbox"/>	26	2650	4000	>80	20	INCL.	190	05021601D <input type="checkbox"/>
05021602 <input type="checkbox"/>								05021602D <input type="checkbox"/>
05021603 <input type="checkbox"/>								05021603D <input type="checkbox"/>
05021701 <input type="checkbox"/>	26	2650	4000	>80	56	INCL.	192	05021701D <input type="checkbox"/>
05021702 <input type="checkbox"/>								05021702D <input type="checkbox"/>
05021703 <input type="checkbox"/>								05021703D <input type="checkbox"/>
05022501 <input type="checkbox"/>	26	2500	PEARL WHITE 3100	85	20	INCL.	194	05022501D <input type="checkbox"/>
05022502 <input type="checkbox"/>								05022502D <input type="checkbox"/>
05022503 <input type="checkbox"/>								05022503D <input type="checkbox"/>
05022601 <input type="checkbox"/>	26	2500	PEARL WHITE 3100	85	56	INCL.	196	05022601D <input type="checkbox"/>
05022602 <input type="checkbox"/>								05022602D <input type="checkbox"/>
05022603 <input type="checkbox"/>								05022603D <input type="checkbox"/>
05021801 <input type="checkbox"/>	22	1660	FRUIT 4000	85	20	INCL.	198	05021801D <input type="checkbox"/>
05021802 <input type="checkbox"/>								05021802D <input type="checkbox"/>
05021803 <input type="checkbox"/>								05021803D <input type="checkbox"/>
05021901 <input type="checkbox"/>	22	1660	FRUIT 4000	85	56	INCL.	200	05021901D <input type="checkbox"/>
05021902 <input type="checkbox"/>								05021902D <input type="checkbox"/>
05021903 <input type="checkbox"/>								05021903D <input type="checkbox"/>
05022101 <input type="checkbox"/>	22	1505	MEAT 4000	70	20	INCL.	206	05022101D <input type="checkbox"/>
05022102 <input type="checkbox"/>								05022102D <input type="checkbox"/>
05022103 <input type="checkbox"/>								05022103D <input type="checkbox"/>
05022201 <input type="checkbox"/>	22	1505	MEAT 4000	70	56	INCL.	208	05022201D <input type="checkbox"/>
05022202 <input type="checkbox"/>								05022202D <input type="checkbox"/>
05022203 <input type="checkbox"/>								05022203D <input type="checkbox"/>
05022301 <input type="checkbox"/>	22	1735	FISH 4000	85	20	INCL.	202	05022301D <input type="checkbox"/>
05022302 <input type="checkbox"/>								05022302D <input type="checkbox"/>
05022303 <input type="checkbox"/>								05022303D <input type="checkbox"/>
05022401 <input type="checkbox"/>	22	1735	FISH 4000	85	56	INCL.	204	05022401D <input type="checkbox"/>
05022402 <input type="checkbox"/>								05022402D <input type="checkbox"/>
05022403 <input type="checkbox"/>								05022403D <input type="checkbox"/>





**LICHI** is a surface luminaire made from aluminium, transparent glass and translucent PC.

LICHI es una luminaria de superficie fabricada en aluminio, cristal transparente y difusor de PC translúcido.

LICHI est une Luminaire de surface fabriqué en aluminium, verre et en PC translucide. 1 X HIT-T G12 35W, ampoule (non incluse).

OVERVIEW DETALLES DÉTAILS

**Materials**

The luminaire is aluminium.

**Materiales**

Luminaria de aluminio disponible en blanco.

**Matériaux**

Ce luminaire est en aluminium.



**Heat dissipator**

All the models have an heat dissipator to ensure maximum life of the lamp.

**Disipador de calor**

Incorpora disipador de calor para facilitar la circulación del aire y aumentar la vida útil de la lámpara.

**Dissipateur de chaleur**

Tous les modèles incorporent un dissipateur de chaleur en aluminium pour maintenir la température optimale du luminaire et garantir la maxime durée de vie maximun de celui-ci.



**High-Purity Reflector**

The high-purity aluminium reflector offers improved light efficiency.

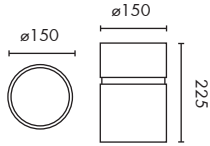
**Reflector de alta pureza**

El reflector de aluminio de alta pureza ofrece un mejor rendimiento lumínico.

**Réflecteur de grande pureté**

Le réflecteur d'aluminium, de grande pureté, offre un meilleur rendement lumineux.





**LICHI**

Surface luminaire made from aluminium, transparent glass and translucent PC.

**LICHI**

Luminaria de superficie fabricada en aluminio, cristal transparente y difusor de PC translúcido.

**LICHI**

Luminaire de surface fabriqué en aluminium, verre et en PC translucide.

**HIT-T**



Ref.	Socket	W	Gear	Photometric
63117 □	1xG12	35	NOT INCL.	-







The **ORE** family is made up with several models of luminaires for heavy duty T5 lamps: Suspension, double suspension and recessed. Made in aluminium. Available without shadows version.

La familia ORE está compuesta por varios modelos de luminarias para lámparas T5 de alto rendimiento: Suspensión, suspensión doble y empotrable. Fabricado en aluminio. Disponible también con sistema de iluminación continua, sin sombras.

La famille ORE se compose de plusieurs modèles de luminaires pour ampoules T5 haut rendement: Suspension, suspension double et encastrable. Fabriquée en aluminium. Également disponible avec un éclairage continu sans ombres.

OVERVIEW DETAILLES DÉTAILS

**Easy installation**

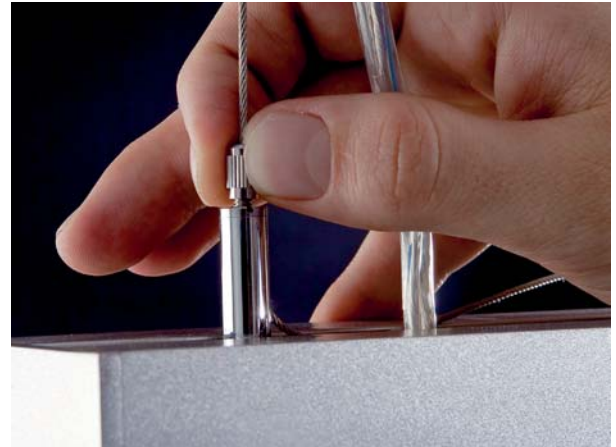
Steel wire suspension with a threaded rod adjustable without tools to facilitate the installation.

**Fácil instalación**

Suspensión en cable de acero con prisionero regulable sin herramientas para facilitar la instalación.

**Installation facile**

Suspension avec câble en acier avec écrou prisonnier réglable sans outils pour faciliter l'installation.



**Installation functionality**

The difusser is made of high resistance PMMA polycarbonate with an easy anchoring system in order to simplify the substitution of the lamps, besides allowing, by means of a removable platform, an easy access to the electrical equipments.



**Fonctionnalité d'installation**

Le diffuseur est en polycarbonate PMMA haute qualité avec un système de fixation facile pour simplifier le remplacement des ampoules, tout en permettant, par le biais d'une plateforme extractible, un accès facile aux ballasts électriques.



**Funcionalidad de instalación**

El difusor es de PMMA BWF de alta calidad con un sistema de fácil anclaje para simplificar la reposición de las lámparas, además de permitir, a través de una plataforma extraíble, el fácil acceso a los equipos eléctricos.



**Easy building of lighting lines**

Thanks to its joining part, it allows for the installation of groups of luminaires with a single electrical connection.



**Construction facile de lignes d'éclairage**

La pièce de jointure permet l'installation de groupes de luminaires avec une seule connexion électrique.

**Fácil construcción de líneas de iluminación**

La pieza de unión permite la instalación de grupos de luminarias con una sola conexión eléctrica.

OPTIONAL OPCIONAL OPTION



**Anti-glare accessory**

**Accesorio antideslumbrante**

**Accessoire anti-éblouissement**

Ref.	Lenght	Photometric
04029904	120	118
NEW 04039904	90	118

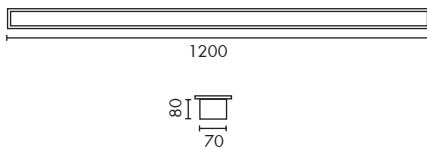


**ORE downlight for T5**  
Aluminium recessed luminaire with PMMA BWF difuser for T5 fluorescent lamps of 54 W. Ballast included.

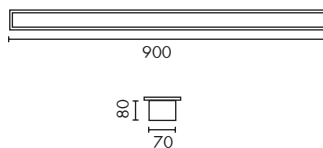
**ORE luminaria empotrable para T5**  
Luminaria empotrable en aluminio con difusor de PMMA BWF para lámpara T5 de 54 W. Incluye equipo electrónico.

**ORE luminaire encastrable pour T5**  
Luminaire encastrable en aluminium avec diffuseur de PMMA BWF pour ampoules fluorescentes T5 de 54 W. Ballast électronique inclus.

#### T5 120cm



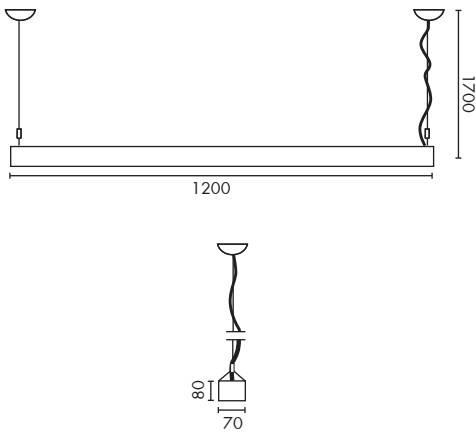
Ref.	Socket	W	Gear	Photometric
04020101 <input type="checkbox"/>	1xG5	54	Electronico INCL.	115
04020103 <input type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE DALI NEW</b>				
04021001 <input type="checkbox"/>	1xG5	54	Electronico INCL.	116
04021003 <input type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE 1-10V NEW</b>				
04021101 <input type="checkbox"/>	1xG5	54	Electronico INCL.	115
04021103 <input type="checkbox"/>				



#### T5 90cm NEW

Ref.	Socket	W	Gear	Photometric
04030001 <input type="checkbox"/>	1xG5	39	Electronico INCL.	-
04030003 <input type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>				
04031001 <input type="checkbox"/>	1xG5	39	Electronico INCL.	-
04031003 <input type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>				
04031101 <input type="checkbox"/>	1xG5	39	Electronico INCL.	-
04031103 <input type="checkbox"/>				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)



### ORE multi-function luminaire for T5

Aluminium multi-function luminaire with PMMA BWF difusser for T5 fluorescent lamps of 54 W that allows for two functionalities according to the needs: suspension or surface luminaire.

### ORE luminaria multifunción para T5

Luminaria multifunción en aluminio con difusor de PMMA BWF para lámparas fluorescentes T5 de 54 W que permite dos funcionalidades según las necesidades: luminaria de suspensión o luminaria de superficie.

### ORE luminaire multi-fonction pour T5

Luminaire multifonction en aluminium avec diffuseur de PMMA BWF pour ampoules fluorescentes T5 de 54 W qui permet deux fonctionnalités selon les besoins: suspension ou luminaire en saillie.

### T5



Ref.	Socket	W	Gear	Photometric
04020201 <input type="checkbox"/>				
04020202 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04020203 <input checked="" type="checkbox"/>				

### REGULABLE DIMMABLE DIMMABLE DALI

04020801 <input type="checkbox"/>				
04020802 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04020803 <input checked="" type="checkbox"/>				

### REGULABLE DIMMABLE DIMMABLE 1-10V

04020701 <input type="checkbox"/>				
04020702 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04020703 <input checked="" type="checkbox"/>				



Surface installation kit included  
Kit de instalación en superficie incluido  
Kit d'installation en saillie inclus



### Pieza de unión Joint Pièce de jointure

Ref.	
04029901 <input type="checkbox"/>	
04029902 <input checked="" type="checkbox"/>	
04029903 <input checked="" type="checkbox"/>	

At each joint requires two pieces  
En cada unión se necesitan dos piezas  
Chaque union exige deux pièces

### T5 90cm NEW



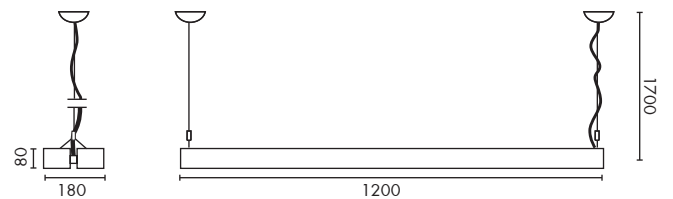
Ref.	Socket	W	Gear	Photometric
04030201 <input type="checkbox"/>				
04030203 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-

### REGULABLE DIMMABLE DIMMABLE DALI

04030801 <input type="checkbox"/>				
04030803 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-

### REGULABLE DIMMABLE DIMMABLE 1-10V

04030701 <input type="checkbox"/>				
04030703 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-



#### ORE double suspended luminaire for T5

Suspended luminaire with BWF aluminum for 2 x 54W T5 bulbs. Electronic gear included.

#### ORE luminaria de suspensión doble para T5

Luminaria de suspensión en aluminio con difusor de BWF para 2 lámparas T5 de 54 W. Incluye equipo electrónico.

#### ORE suspension double pour T5

Suspension en aluminium ave difusueur BWF pour 2 ampoules T5 de 54 W. Ballast électronique inclus.

#### T5



Ref.	Socket	W	Lm	Gear	Photometric
04020301 <input type="checkbox"/>	2xG5	54	8900	Electronico INCL.	117
04020302 <input checked="" type="checkbox"/>					
04020303 <input checked="" type="checkbox"/>					



#### Pieza de unión Joint Pièce de jointure

##### Ref.

04029901 <input type="checkbox"/>
04029902 <input checked="" type="checkbox"/>
04029903 <input checked="" type="checkbox"/>

At each joint requires two pieces  
En cada unión se necesitan dos piezas  
Chaque union exige deux pièces

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)

**Shadow-free**

When luminaires are linked together, we obtain a continuous and even light. Made from aluminium, with PMMA BWF diffuser.

**Sin sombras**

Cuando se unen las luminarias entre sí, conseguimos una iluminación uniforme y continua. Fabricada en aluminio con difusor de PMMA BWF.

**Sans ombres**

Lorsque les luminaires s'unissent entre eux, nous obtenons une illumination uniforme et continue. Fabriqué en aluminium avec diffuseur de PMMA BWF.

**OVERVIEW** DETALLES DÉTAILS



Detail of frame of ORE model recessed luminaire.  
Detalle del marco del modelo ORE luminaria empotrable.  
Détail du cadre du modèle ORE luminaire encastrable.

**CONNECTOR KIT**

The connector kit permits to link many luminaires with each other.

**KIT CONECTOR**

El kit conector permite unir varias luminarias entre sí.

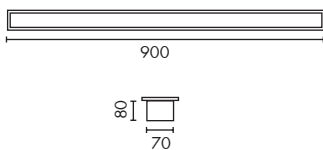
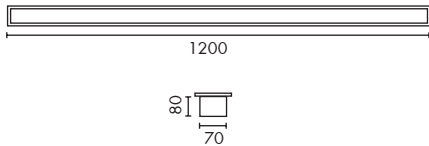
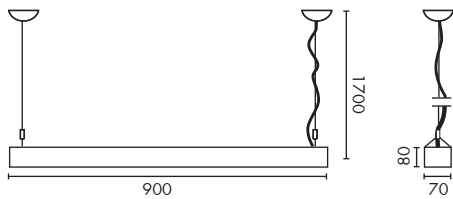
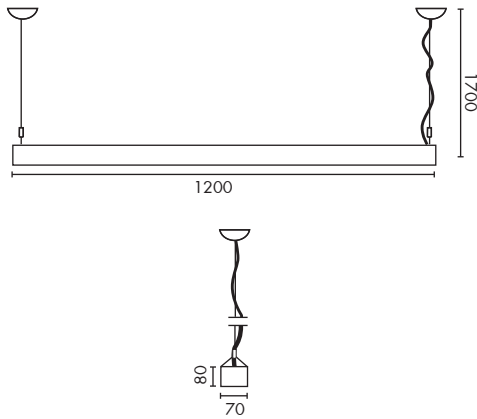
**KIT CONNECTEUR**

Le kit connecteur permet d'unir plusieurs luminaires entre eux.



**OPTIONAL** OPCIONAL OPTION

Ref.	Descripción
04029906	Ore kit conector para luz continua



**ORE CONTINUOUS**  
Multi-function Lumi-  
naire for T5

**ORE luminaria multi-  
función CONTINUO**  
para T5

**ORE luminaire multi-  
fonction CONTINU pour**  
T5

**T5 120cm NEW**



Ref.	Socket	W	Gear	Photometric
04022201 <input type="checkbox"/>				
04022202 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04022203 <input checked="" type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>				
04022801 <input type="checkbox"/>				
04022802 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04022803 <input checked="" type="checkbox"/>				
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>				
04022701 <input type="checkbox"/>				
04022702 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	114
04022703 <input checked="" type="checkbox"/>				

**T5 90cm NEW**

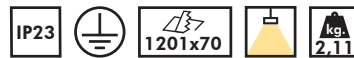
Ref.	Socket	W	Gear	Photometric
04032201 <input type="checkbox"/>				
04032203 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>				
04032801 <input type="checkbox"/>				
04032803 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>				
04032701 <input type="checkbox"/>				
04032703 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-

**ORE CONTINUOUS Re-  
cessed Luminaire for T5**

**ORE luminaria empo-  
trable CONTINUO para**  
T5

**ORE luminaire en-  
castrable CONTINU**  
pour T5

**T5 120cm NEW**



Ref.	Socket	W	Gear	Photometric
04023101 <input type="checkbox"/>				
04023103 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	115
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>				
04023001 <input type="checkbox"/>				
04023003 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	116
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>				
04023301 <input type="checkbox"/>				
04023303 <input checked="" type="checkbox"/>	1xG5	54	Electronico INCL.	115

**T5 90cm NEW**



Ref.	Socket	W	Gear	Photometric
04033101 <input type="checkbox"/>				
04033103 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-
<b>REGULABLE DIMMABLE DIMMABLE DALI</b>				
04033001 <input type="checkbox"/>				
04033003 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-
<b>REGULABLE DIMMABLE DIMMABLE 1-10V</b>				
04033301 <input type="checkbox"/>				
04033303 <input checked="" type="checkbox"/>	1xG5	39	Electronico INCL.	-







The **NECKAR** family is made up of three suspension luminaires for E27 and discharge lamps.

They are made in aluminium and are available in 3 finish: white, black and grey, in two diameters, 30 and 40 cm, depending on the type of lamp they use.

La familia NECKAR está compuesta por tres luminarias de suspensión para lámparas E27 y de descarga. Están fabricadas en aluminio disponible en tres acabados, blanco, negro y gris, en dos diámetros 30 y 40 cm, dependiendo de la lámpara que utilicen.

La famille NECKAR est composée de trois suspensions pour ampoules E27 et de décharge.

Elles sont fabriquées en aluminium, disponibles en trois finitions, blanc, noir et gris, avec deux diamètres, 30 et 40 cm, en fonction de l'ampoule utilisée.

### Heat dissipator

All the models feature a cooler to facilitate the air flow and enhance the use life of the equipments and the lamps.

### Disipador de calor

Todos los modelos incorporan un disipador de calor para facilitar la circulación del aire y aumentar la vida útil de los equipos y las lámparas.

### OVERVIEW DETAILLES DÉTAILS



### Dissipateur de chaleur

Tous les modèles incorporent un dissipateur de chaleur pour faciliter la circulation de l'air et rallonger la durée de vie des ballast et des ampoules.



### Pyrex protection

The discharge lamps models includes a satin Pyrex protector glass.

### Protección en Pyrex

Los modelos para lámpara de descarga incorporan protector de cristal Pyrex satinado.

### Protection en Pyrex

Les modèles pour ampoules à décharge incorporent une protection en verre Pyrex satiné.

### Better luminic performance

The inside of the dome is finished with a coat of silver paint in order to achieve a better luminic performance.

### Mejor rendimiento lumínico

El interior de la campana tiene un acabado en pintura plateada para un mejor rendimiento lumínico.



### Meilleur rendement lumineux

L'intérieur de la cloche est fini en peinture argentée pour un meilleur rendement lumineux.



**NECKAR suspended lamp HIT-T 70 W**

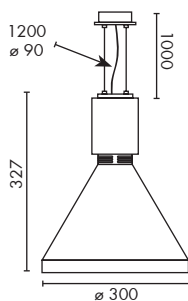
Suspension luminaire for HIT-T G12 max. 70 W with aluminium dome and steel suspension wire. Gear included.

**NECKAR lámpara de suspensión HIT-T 70 W**

Luminaria de suspensión para HIT-T G12 máx. 70 W, con campana en aluminio y cable de suspensión en acero. Incluye equipo.

**NECKAR suspension HIT-T 70 W**

Suspension HIT-T G12 max. 70 W avec cloche en aluminium et câble en acier. Ballast inclus.



**HIT-T**



Ref.	Socket	W	Gear	Photometric
04010201 <input type="checkbox"/>				
04010202 <input checked="" type="checkbox"/>	1 x G12	70	Electronic INCL.	112
04010203 <input checked="" type="checkbox"/>				

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





The **MOTIVE** model is a suspension luminaire of indirect light for heavy duty T5 lamps.

The body is made of aluminium, painted grey in PMMA BWF polycarbonate in order to achieve a perfect visual comfort.

El modelo MOTIVE es una luminaria de suspensión de luz indirecta para lámparas T5 de alto rendimiento. Cuerpo en aluminio gris pintura y difusor en PMMA BWF para conseguir un óptimo confort visual.

Le modèle MOTIVE est une suspension de lumière indirecte pour ampoules T5 à haut rendement. Corps en aluminium gris peinture et diffuseur en polycarbonate PMMA BWF pour obtenir un confort visuel optimal.

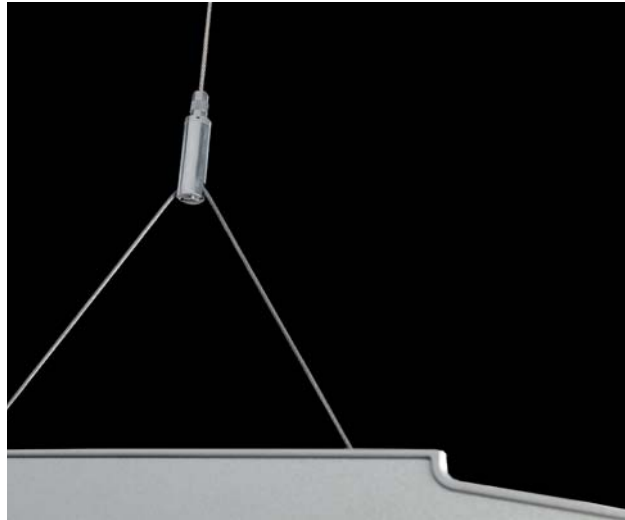
### Easy installation

The suspension is made of steel wire with a threaded rod adjustable without tools in order to facilitate its installation.

### Fácil instalación

Suspensión en cable de acero con prisionero regulable sin herramientas para facilitar la instalación.

### OVERVIEW DETALLES DÉTAILS



### Installation facile

Suspension avec câble en acier avec écrou prisonnier réglable sans outils pour faciliter l'installation.



### Ressistant difusser

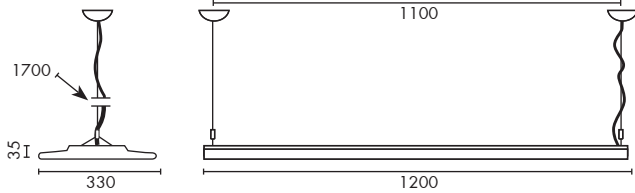
The difusser is made of high quality serigraphic PMMA BWF polycarbonate in order to avoid dazzling and achieve a perfect visual comfort.

### Difusor resistente

El difusor es de PMMA BWF serigrafiado de alta calidad para evitar deslumbramientos y conseguir un óptimo confort visual.

### Difusueur résistant

Le diffuseur est en polycarbonate PMMA BWF sérigraphié haute qualité pour éviter les éblouissements et obtenir un confort visuel optimal.



**MOTIVE suspended luminaire for T5**

Aluminium suspended luminaire for two 54 W fluorescent lamp T5.

**MOTIVE luminaria de suspensión para T5**

Luminaria de suspensión en aluminio para dos lámparas fluorescentes T5 de 54 W.

**MOTIVE suspension pour T5**

Suspension en aluminium pour deux ampoules fluorescentes T5 de 54 W.

**T5**



Ref.	Socket	W	Gear	Photometric
04030103 ■	2 x G5	54	Electronic INCL.	119

\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)







The **NITRO** and **OLEO** models are two suspension luminaires for standard E27 lamps. NITRO is made in aluminium and satin crystal and features a decorative semi-transparent crystal ring. OLEO is made in aluminium and features a crystal cover to protect the lamp.

Los modelos NITRO y OLEO son dos luminarias de suspensión para lámparas standard E27. NITRO está fabricado en aluminio y cristal satinado e incorpora un aro de cristal semitransparente decorativo. OLEO está fabricado en aluminio e incorpora una tapa de cristal para proteger la lámpara.

Les modèles NITRO et ÓLEO sont deux suspensions pour ampoules standard E27. NITRO est fabriqué en aluminium et verre satiné et incorpore un anneau en verre semi-transparent décoratif. ÓLEO est fabriqué en aluminium et incorpore un couvercle en verre pour protéger la ampoule.

### Heat dissipator

It features a cooler to facilitate the air flow and enhance the use life of the lamp.

### Disipador de calor

Incorpora disipador de calor para facilitar la circulación del aire y aumentar la vida útil de la lámpara.

### OVERVIEW DETALLES DÉTAILS



### Dissipateur de chaleur

La suspension incorpore un dissipateur de chaleur pour faciliter la circulation de l'air et ainsi allonger la durée de vie de l'ampoule.



### Easy to access

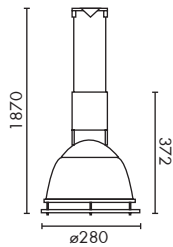
The aluminium grips that fasten the diffuser glass guarantee an easy and comfortable access to substitute the lamp.

### Fácil accesibilidad

Las pinzas de aluminio que sujetan el cristal difusor garantizan un acceso fácil y cómodo para reponer la lámpara.

### Facile accès

Les pinces en aluminium qui retiennent le verre diffuseur garantissent un accès facile et aisé pour remplacer la ampoule.



**NITRO-1 suspended lamp for E27**

Aluminium suspension luminaire with glass difusser for standard E27 max. 60 W, compact fluorescent.

**NITRO-1 lámpara de suspensión E27**

Luminaria de suspensión en aluminio con difusor de cristal para E27 estándar máx. 60 W fluorescente compacta.

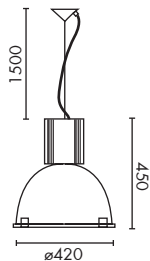
**NITRO-1 suspension E27**

Suspension en aluminium avec diffuseur en verre pour E27 standard max. 60 W fluorescent compact.

**E27**



Ref.	Socket	W	Lm	Photometric
64125 ■	1 x E27	60	4000	120



**OLEO suspended lamp for E27**

Aluminium suspension luminaire with glass difusser for standard E27 max. 100 W, fluorescent and compact.

**OLEO lámpara de suspensión E27**

Luminaria de suspensión en aluminio con difusor de cristal para E27 estándar de máx. 100 W fluorescente compacta.

**OLEO suspension E27**

Suspension en aluminium avec diffuseur en verre pour E27 standard max. 100 W fluorescent compact.

**E27**



Ref.	Socket	W	Photometric
64129 ■	1 x E27	Max. 100	121

\* Bulb not included Lámpara no incluida Ampoule non inclus





The **TIMBAL** model is a suspension luminaire made integrally of aluminium for high intensity. The glass difusser is fastened to the body by means of a safety chain in order to facilitate the substitution of the lamp.

El modelo TIMBAL es una luminaria de suspensión fabricada íntegramente en aluminio para lámpara de descarga de alta intensidad. El difusor de cristal queda sujeto al cuerpo a través de una cadena de seguridad para facilitar la reposición de la lámpara.

Le modèle TIMBAL est une luminaire à suspension intégralement fabriquée en aluminium pour ampoule à décharge haute intensité. Le diffuseur en verre est fixé au corps par le biais d'une chaîne de sécurité afin de faciliter le remplacement de l'ampoule.

### Heat dissipator

The die cast aluminium dissipator allows to keep an optimum working temperature guaranteeing thus the maximum use life of the lamp. Furthermore, the body houses the magnetic transformer included inside.

### Disipador de calor

El disipador de calor de aluminio inyectado permite mantener una temperatura de funcionamiento óptima garantizando la máxima vida útil de la lámpara. Además, el cuerpo aloja el transformador magnético incluido en su interior.

### OVERVIEW DETAILLES DÉTAILS



### Dissipateur de chaleur

Le dissipateur de chaleur en aluminium injecté permet de maintenir une température de fonctionnement optimale garantissant la durée de vie maximum de l'ampoule. De plus, le corps loge le transformateur magnétique inclus à l'intérieur.



### Diffusser

The safety difusser glass is fastened to the the body of the luminaire by means of a metallic chain to facilitate the substitution of the lamps.

### Difusor

El cristal difusor de seguridad queda sujeto al cuerpo de la luminaria mediante una cadena metálica para facilitar la reposición de las lámparas.



### Diffuseur

Le verre diffuseur de sécurité reste fixé au corps du luminaire au moyen d'une chaîne métallique pour faciliter le remplacement des ampoules.



**TIMBAL suspended lamp for E40**

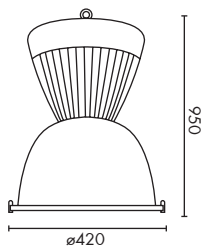
Suspension luminaire for E40 high intensity discharge lamp of 400 W made completely in aluminium and a grey silver finish.

**TIMBAL lámpara de suspensión E40**

Luminaria de suspensión para lámpara de descarga de alta intensidad E40 de 400 W fabricada íntegramente en aluminio acabada en gris plata.

**TIMBAL suspension E40**

Suspension pour ampoule à décharge haute intensité E40 de 400 W íntégralement fabriqué en aluminium fini en gris argent.



**E40**



Ref.	Socket	W	Lm	Gear	Photometric
64120 ■	1 x E40	400	44000	Magnetic INCL.	122

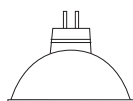
\* Bulb not included (See page 168) Lámpara no incluida (Ver pág. 168) Ampoule non inclus (Voir page 168)





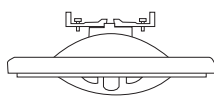
BULBS  
LÁMPARAS  
AMPOULES

# HALOGEN HALOGÉNAS HALOGÈNES



**Halogen lamp with QR-CB51 dichroic reflector - Philips**  
**Lámpara halógena con reflector dicroico QR-CB51 Philips**  
**Lampe halogène avec réflecteur dichroïque QR-CB51 Philips**

Ref.	Model	Socket	V	W	xº	Lm	K	CRI	H	Photom.	Energy
97100020	MASTERLine ES QR-CB51	GU5.3	12	20	36	340	3000	100	5000	123	B
97100030	MASTERLine ES QR-CB51	GU5.3	12	30	8	565	3000	100	5000	124	B
97101030	MASTERLine ES QR-CB51	GU5.3	12	30	36	610	3000	100	5000	125	B
97102030	MASTERLine ES QR-CB51	GU5.3	12	30	60	630	3000	100	5000	126	B
97100045	MASTERLine ES QR-CB51	GU5.3	12	45	8	1030	3000	100	5000	127	B
97101045	MASTERLine ES QR-CB51	GU5.3	12	45	36	1060	3000	100	5000	128	B
97102045	MASTERLine ES QR-CB51	GU5.3	12	45	60	1080	3000	100	5000	129	B
97101020	ACCENTLine QR-CB51	GU5.3	12	20	36	288	3000	100	3000	-	B
97100035	ACCENTLine QR-CB51	GU5.3	12	35	36	417	3000	100	3000	-	B
97100050	ACCENTLine QR-CB51	GU5.3	12	50	10	545	3000	100	3000	-	B
97101050	ACCENTLine QR-CB51	GU5.3	12	50	36	586	3000	100	3000	-	B
97102050	ACCENTLine QR-CB51	GU5.3	12	50	60	555	3000	100	3000	-	B

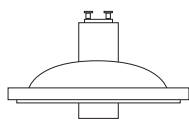


**Halogen lamp with QR-111 metallic reflector - Philips**  
**Lámpara halógena con reflector metálico QR-111 Philips**  
**Ampoule halogène avec réflecteur métallique QR-111 Philips**

Ref.	Model	Socket	V	W	xº	Lm	K	CRI	H	Photom.	Energy
97110030	MASTERLine 111 QR-111	G53	12	30	8	510	3000	100	4000	138	C
97111030	MASTERLine 111 QR-111	G53	12	30	24	540	3000	100	4000	139	B
97110045	MASTERLine 111 QR-111	G53	12	45	8	850	3000	100	4000	140	C
97111045	MASTERLine 111 QR-111	G53	12	45	24	840	3000	100	4000	141	B
97112045	MASTERLine 111 QR-111	G53	12	45	45	840	3000	100	4000	142	B
97110060	MASTERLine 111 QR-111	G53	12	60	8	1400	3000	100	4000	143	C
97111060	MASTERLine 111 QR-111	G53	12	60	24	1420	3000	100	3000	144	C
97112060	MASTERLine 111 QR-111	G53	12	60	45	1190	3000	100	3000	145	C
HF 97110050	ALULine QR-111	G53	12	50	8	510	3000	100	4000	130	C
97111050	ALULine QR-111	G53	12	50	24	540	3000	100	4000	131	C
97110075	ALULine QR-111	G53	12	75	8	850	3000	100	3000	132	C
97111075	ALULine QR-111	G53	12	75	24	840	3000	100	3000	133	C
97112075	ALULine QR-111	G53	12	75	45	840	3000	100	3000	134	C
97110100	ALULine QR-111	G53	12	100	8	1400	3000	100	3000	135	C
97111100	ALULine QR-111	G53	12	100	24	1420	3000	100	3000	136	C
97112100	ALULine QR-111	G53	12	100	45	1190	3000	100	3000	137	C

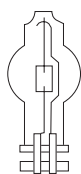
HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock

# DISCHARGE DESCARGA DÉCHARGE



**Metal halide with aluminum reflector CDM-R111 Philips**  
**Halogenuro metálico con reflector de aluminio CDM-R111 Philips**  
**Lodure métallique avec réflecteur en aluminium CDM-R111 Philips**

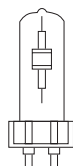
Ref.	Model	Socket	W	xº	Lm	K	CRI	H	Photom.	Energy
97311020	MASTERC CDM-R111	GX8.5	20	10	750	3000	>80	9000	146	A
97312020	MASTERC CDM-R111	GX8.5	20	24	500	3000	>80	9000	147	A
97311035	MASTERC CDM-R111	GX8.5	35	10	1100	3000	>80	9000	-	A
97312035	MASTERC CDM-R111	GX8.5	35	24	1350	3000	>80	11000	148	A
97313035	MASTERC CDM-R111	GX8.5	35	40	1350	3000	>80	11000	149	A
97315035	MASTERC CDM-R111	GX8.5	35	10	1100	4200	>90	11000	153	A
97316035	MASTERC CDM-R111	GX8.5	35	24	1350	4200	>90	11000	153	A
97317035	MASTERC CDM-R111	GX8.5	35	40	1350	4200	>90	11000	154	A
97314070	MASTERC CDM-R111	GX8.5	70	10	2500	3000	>80	9000	152	A
97312070	MASTERC CDM-R111	GX8.5	70	24	2500	3000	>80	9000	150	A
97313070	MASTERC CDM-R111	GX8.5	70	40	2850	3000	>80	9000	151	A
97318070	MASTERC CDM-R111	GX8.5	70	10	2500	4200	>90	9000	155	A
97319070	MASTERC CDM-R111	GX8.5	70	24	2850	4200	>90	9000	156	A
97320070	MASTERC CDM-R111	GX8.5	70	40	2850	4200	>90	9000	157	A



**Metallic halide single ended CDM-Tm Philips**  
**Halogenuro metálico de un terminal CDM-Tm Philips**  
**Lodure métallique d'un terminal CDM-Tm Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97301020	MASTERC CDM-T MINI	PGJ5	20	1650	3000	>80	12000	A+
97301035	MASTERC CDM-T MINI	PGJ5	35	3000	3000	>90	9000	A+

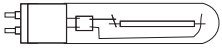
HF: Until stock exhaustion Hasta fin de stock Jusqu'à la fin de stock



**Metallic halide single ended HIT-T Philips**  
**Halogenuro metálicos de un terminal HIT-T Philips**  
**Lodure métallique d'un terminal HIT-T Philips**

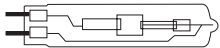
Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97332035	MASTERC CDM-T	G12	35	3300	3000	>80	12000	A+
97331035	MASTERC CDM-T	G12	35	3300	4200	>90	6000	A+
97332070	MASTERC CDM-T	G12	70	6600	3000	>80	12000	A+
97331070	MASTERC CDM-T	G12	70	6600	4200	>90	12000	A+
97332100	MASTERC CDM-T ELITE	G12	100	11000	3000	>90	15000	A+
97332150	MASTER CDM-T	G12	150	14000	3000	>80	12000	A+
97331150	MASTERC CDM-T	G12	150	12700	4200	>90	12000	A+

# DISCHARGE DESCARGA DÉCHARGE



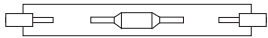
**MINISODIO BLANCO Philips sodium vapor lamp**  
**Lámpara de vapor de sodio MINISODIO BLANCO Philips**  
**Lampe à vapeur de sodium MINISODIO BLANCO Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97341050	MASTER SDW-TG 50W	GX12-1	50	2400	2550	>80	15000	B
97341100	MASTER SDW-TG 100W	GX12-1	100	4900	2550	>80	15000	B



**Metallic halide single ended HIT-TC Philips**  
**Halogenuro metálico de un terminal HIT-TC Philips**  
**Lodure métallique d'un terminal HIT-TC Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97331135	MASTERC CDM-TC	G8.5	35	3500	3000	>80	9000	A+
97321035	MASTERC CDM-TC	G8.5	35	3300	4200	>90	6000	A+
97331170	MASTERC CDM-TC	G8.5	70	3500	3000	>80	12000	A+
97321070	MASTERC CDM-TC	G8.5	70	5900	4200	>90	6000	A+



**Metallic halide double ended HIT-DE Philips**  
**Halogenuro metálicos de dos terminales HIT-DE Philips**  
**Lodure métallique de deux terminals HIT-DE Philips**

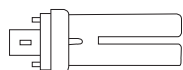
Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97342070	MHN-TD HIT-DE	Rx7s	70	6200	3000	>80	9000	A+
97341070	MHN-TD HIT-DE	Rx7s	70	5700	4200	>80	10500	A+
97342150	MHN-TD HIT-DE	Rx7s	150	13800	3000	>80	10500	A+
97341150	MHN-TD HIT-DE	Rx7s	150	12900	4200	>80	10500	A+



**Metallic halide E40 Philips**  
**Halogenuro metálico E40 Philips**  
**Lodure métallique E40 Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97342400	MASTERSON HPI PLUS	E40	400	37500	4000	70	20000	A+

# FLUORESCENT FLUORESCENCIA FLUORESCENCE



**Compact fluorescent lamp TC-D Philips**  
**Lámpara fluorescente compacta TC-D Philips**  
**Lampe fluo compacte TC-D Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97201018	MASTER PL-C TC-D	G24d-2	18	1200	3000	>80	10000	B
97202018	MASTER PL-C TC-D	G24d-2	18	1200	4000	>80	10000	B
97201026	MASTER PL-C TC-D	G24d-3	26	1800	3000	>80	10000	B
97202026	MASTER PL-C TC-D	G24d-3	26	1800	4000	>80	10000	B



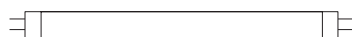
**Compact fluorescent lamp TC-DEL Philips**  
**Lámpara fluorescente compacta TC-DEL Philips**  
**Lampe fluo compacte TC-DEL Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97211013	MASTER PL-C TC-DEL	G24q-1	13	900	3000	>80	13000	A
97212013	MASTER PL-C TC-DEL	G24q-1	13	900	4000	>80	13000	A
NEW 98210018	MASTER PL-C TC-DEL	G24q-2	18	1200	2700	>80	13000	A
97211018	MASTER PL-C TC-DEL	G24q-2	18	1200	3000	>80	13000	A
97212018	MASTER PL-C TC-DEL	G24q-2	18	1200	4000	>80	13000	A
NEW 98210026	MASTER PL-C TC-DEL	G24q-3	26	1800	2700	>80	13000	A
97211026	MASTER PL-C TC-DEL	G24q-3	26	1800	3000	>80	13000	A
97212026	MASTER PL-C TC-DEL	G24q-3	26	1800	4000	>80	13000	A



**Compact fluorescent lamp TC-TEL Philips**  
**Lámpara fluorescente compacta TC-TEL Philips**  
**Lampe fluo compacte TC-TEL Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
97221026	MASTER PL-T TC-TEL	GX24q-3	26	1800	3000	>80	13000	A
97222026	MASTER PL-T TC-TEL	GX24q-3	26	1800	4000	>80	13000	A
97221032	MASTER PL-T TC-TEL	GX24q-3	32	2400	3000	>80	13000	A
97222032	MASTER PL-T TC-TEL	GX24q-3	32	2400	4000	>80	13000	A
97221042	MASTER PL-T TC-TEL	GX24q-4	42	3200	3000	>80	13000	A
97222042	MASTER PL-T TC-TEL	GX24q-4	42	3200	4000	>80	13000	A



**High efficiency fluorescent lamp T5 Philips**  
**Lámpara fluorescente alto rendimiento T5 Philips**  
**Lampe fluo haut rendement T5 Philips**

Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
NEW 97402039	FLUORESCENTE TL5 HO	G5	39	3100	2700	>80	24000	A+
NEW 97400039	FLUORESCENTE TL5 HO	G5	39	3100	3000	>80	24000	A+
NEW 97401039	FLUORESCENTE TL5 HO	G5	39	3100	4000	>80	24000	A+
NEW 97402054	FLUORESCENTE TL5 HO	G5	54	4450	2700	>80	24000	A+
97400054	FLUORESCENTE TL5 HO	G5	54	4450	3000	>80	24000	A+
97401054	FLUORESCENTE TL5 HO	G5	54	4450	4000	>80	24000	A+

# FLUORESCENT FLUORESCENCIA FLUORESCENCE



**High efficiency fluorescent lamp T8**  
**Lámpara fluorescente de alta eficiencia T8**  
**Lampe fluo haut rendement T8**

	Ref.	Model	Socket	W	Lm	K	CRI	H	Energy
	97400016	MASTER TL-D ECO	G13	16	1175	3000	>85	15000	A
	97401016	MASTER TL-D ECO	G13	16	1175	4000	>85	15000	A
	97402016	MASTER TL-D ECO	G13	16	1125	6500	>85	15000	A
NEW	97403018	MASTER TL-D 80	G13	18	1350	2700	>85	15000	A
	97400032	MASTER TL-D ECO	G13	32	2650	3000	>85	15000	A
	97401032	MASTER TL-D ECO	G13	32	2550	4000	>85	15000	A
	97402032	MASTER TL-D ECO	G13	32	2550	6500	>85	15000	A
NEW	97403036	MASTER TL-D 80	G13	36	3350	2700	>85	15000	A
	97400051	MASTER TL-D ECO	G13	51	4550	3000	>85	15000	A
	97401051	MASTER TL-D ECO	G13	51	4550	4000	>85	15000	A
	97402051	MASTER TL-D ECO	G13	51	4300	6500	>85	15000	A
NEW	97403058	MASTER TL-D 80	G13	58	5240	2700	>85	15000	A

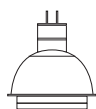
# LED LED LED



**Faro LED bulb QR-CB51 12V**  
**Lámpara LED Faro QR-CB51 12V**  
**Lampe LED Faro QR-CB51 12V**

Ref.	Model	Socket	W	xº	Lm	K	CRI	Photom.	Energy
17312	QR-CB51 LED	GU5.3	7	36	480	2700	>80	-	A+
17313	QR-CB51 LED	GU5.3	7	36	520	4000	>80	-	A+

Works with magnetic and electronic gears  
 Funciona con reactancia magnética y electrónica  
 Fonctionne avec magnétique et électronique ballast



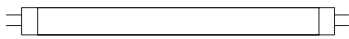
**Faro LED bulb QR-CB51 12V**  
**Lámpara LED Philips QR-CB51 12V**  
**Lampe LED Philips QR-CB51 12V**

Ref.	Model	Socket	W	xº	Lm	K	CRI	H	Dimmer	Photom.	Energy
97551000	MASTER LED Spot	GU5.3	10	24	470	2700	>80	25000	✓	169	A
97551010	MASTER LED Spot	GU5.3	10	24	490	3000	>80	25000	✓	170	A
97561000	MASTER LED Spot	GU5.3	10	36	470	2700	>80	25000	✓	172	A
97561010	MASTER LED Spot	GU5.3	10	36	490	3000	>80	25000	✓	173	A

Works with magnetic and electronic gears  
 Funciona con reactancia magnética y electrónica  
 Fonctionne avec magnétique et électronique ballast

✓ Lámpara regulable Dimmable Gradable  
 ✗ Lámpara NO regulable NOT dimmable NON gradable

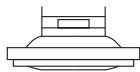
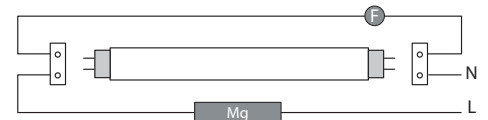
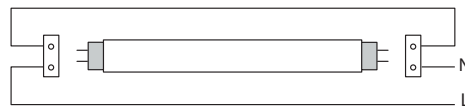
# LED LED LED



## T8 Philips LED tube Tubo LED T8 Philips Tube de LED T8 Philips

Ref.	Model	Width	Socket	W	xº	Lm	K	CRI	H	Photom.	Energy
97502011	MASTER LED TUBE	600	G13	10	120	800	4000	>80	40000	179	A+
97503011	MASTER LED TUBE	600	G13	10	120	800	6500	>80	40000	180	A+
97502022	MASTER LED TUBE	1200	G13	20	120	1600	4000	>80	40000	181	A+
97503022	MASTER LED TUBE	1200	G13	20	120	1600	6500	>80	40000	182	A+
97502025	MASTER LED TUBE	1500	G13	25	120	2000	4000	>80	40000	183	A+
97503025	MASTER LED TUBE	1500	G13	25	120	2000	6500	>80	40000	184	A+

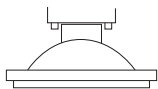
Funciona directo a corriente o con reactancia magnética (Con reactancia es necesario starter ref. 98500000)  
Works direct current or with magnetic gear (With magnetic gear is needed the starter ref. 98500000)  
Fonctionne directement sur le courant ou avec magnétique ballast (Avec ballast il est nécessaire starter ref. 98500000)



## Faro LED bulb QR-111 12V Lámpara LED Faro QR-111 12V Ampoule LED Faro QR-111 12V

Ref.	Model	Socket	W	xº	Lm	K	CRI	Photom.	Energy
17510	AR111	G53	20	30	1000	2700	>80	-	A+
17511	AR111	G53	20	30	1100	4000	>80	-	A+

Funciona con reactancia magnética y electrónica compatibles con lámparas LED  
Works with magnetic gears  
Fonctionne avec magnétique ballast



## Philips LED bulb QR-111 12V Lámpara LED Philips QR-111 12V Ampoule LED Philips QR-111 12V

Ref.	Model	Socket	W	xº	Lm	K	CRI	H	Dimmer	Photom.	Energy
97651115	MASTER LED Spot	G53	15	24	830	2700	>80	45000	✓	-	A
97651215	MASTER LED Spot	G53	15	24	875	3000	>80	45000	✓	-	A
97671115	MASTER LED Spot	G53	15	40	780	2700	>80	45000	✓	-	A
97671215	MASTER LED Spot	G53	15	40	825	3000	>80	45000	✓	-	A

Works with magnetic and electronic gears  
Funciona con reactancia magnética y electrónica  
Fonctionne avec magnétique et électronique ballast

✓ Lámpara regulable Dimmable Gradable  
\* Lámpara NO regulable NOT dimmable NON gradable





GEARS & DRIVERS  
EQUIPOS Y DRIVERS  
EQUIPEMENT ET DRIVERS

# MAGNETIC MAGNÉTICOS MAGNÉTIQUES

## MAGNETIC GEARS TRANSFORMADORES MAGNÉTICOS TRANSFORMATEURS MAGNÉTIQUES

Reference Referencia Référence	Class Clase Classe	Volt Volt Volt	Power Potencia Puissance	Bulbs Lámparas Ampoules	Sizes (mm) Dimen. (mm) Dimen. (mm)
98101050	I	12	50 W	2x20 W, 1x35 W, 1x50 W	143 x 43 x 35

## MAGNETIC GEARS REACTANCIAS MAGNÉTICAS BALLASTS MAGNÉTIQUES

Reference Referencia Référence	Class Clase Classe	Volt Volt Volt	Power Potencia Puissance	Bulbs Lámparas Ampoules	Power factor Power factor Power factor	Sizes (mm) Dimen. (mm) Dimen. (mm)
98201018	I	0,22	18 W	G24d-2	0,50	110 x 41 x 28,2
98201026	I	0,325	26 W	G24d-3	0,41	110 x 41 x 28,2

## DISCHARGE MAGNETIC GEARS EQUIPOS DESCARGA MAGNÉTICOS BALLASTS DÉCHARGE MAGNÉTIQUES

Reference Referencia Référence	Class Clase Classe	Volt Volt Volt	Power Potencia Puissance	Bulbs Lámparas Ampoules	Power factor Power factor Power factor	Sizes (mm) Dimen. (mm) Dimen. (mm)
98401070	II	0,98	70 W	70W	0,90	158 x 81 x 62
98401150	II	1,80	150 W	150 W	0,90	205 x 121 x 57

# ELECTRONIC ELECTRÓNICOS ELECTRONIQUES

## ELECTRONIC GEARS TRANSFORMADORES ELECTRÓNICOS TRANSFORMATEURS ÉLECTRONIQUES

Reference Referencia Référence	Class Clase Classe	Volt Volt Volt	Power Potencia Puissance	Bulbs Lámparas Ampoules	Sizes (mm) Dimen. (mm) Dimen. (mm)
98111050	II	12	50 W	2x20 W, 1x35 W, 1x50 W	38 x 29 x 131
98111070	II	12	70 W	3x20 W, 2x35 W 1x50 W, 1x60 W	38 x 29 x 131
98111105	II	12	105 W	5x20 W, 3x35 W 2x50 W, 1x100 W	38 x 29 x 131

## ELECTRONIC GEARS REACTANCIAS ELECTRÓNICAS BALLASTS ÉLECTRONIQUES

Reference Referencia Référence	Class Clase Classe	Power Potencia Puissance	Bulbs Lámparas Ampoules	Sizes (mm) Dimen. (mm) Dimen. (mm)
98212013	II	26 W	2x13 W TC-DEL	67 x 21 x 103 x 94
98212018	II	36 W	2x18 W TC-DEL	67 x 21 x 103 x 94
98212026	II	52 W	2x26 W TC-DEL	67 x 21 x 103 x 94
98212042	II	52 W	2x26 W TC-DEL	69 x 21 x 123 x 111
	II	64 W	2x32,42 W TC-TEL	
98211042	II	26 W	1x26 W TC-DEL	79 x 21 x 123 x 112
	II	42 W	1x32,42 W TC-TEL	

# ELECTRONIC ELECTRÓNICOS ELECTRONIQUES

**ELECTRONIC GEARS** TRANSFORMADORES ELECTRÓNICOS TRANSFORMATEURS ÉLECTRONIQUES

Reference Referencia Référence	Controller Regulación Regulateur	Class Clase Classe	Power Potencia Puissance	Bulbs Lámparas Ampoules	Sizes (mm) Dimen. (mm) Dimen. (mm)
98111152	DALI	II	52 W	2X26 W TC-DEL	123 x 79 x 33
98111252	1-10V	II	52 W	2X26 W TC-DEL	123 x 79 x 33

# ELECTRONIC ELECTRÓNICOS ELECTRONIQUES

**DISCHARGE ELECTRONIC GEARS** EQUIPOS DESCARGA ELECTRÓNICOS BALLASTS DÉCHARGE ÉLECTRONIQUES

Reference Referencia Référence	Class Clase Classe	Power Potencia Puissance	Bulbs Lámparas Ampoules	Sizes (mm) Dimen. (mm) Dimen. (mm)
98411020	II	20 W	HID de 20 W	190 x 43 x 30
98401050	II	50 W	SDW-TG 50 W	38 x 90 x 150
98401100	II	100 W	SDW-TG 100 W	38 x 90 x 150
98401101	II	100 W	HID de 100 W	32 x 75 x 135
98411035	II	35 W	HID de 35 W	75 x 145 x 29,5
98411070	II	70 W	HID de 70 W	75 x 145 x 29,5
98411150	II	150 W	HID de 150 W	88 x 190 x 36

# DRIVER LED LED DRIVER LED DRIVER

**LED DRIVERS** DRIVERS LED DRIVERS LED

NORMAL

Reference Referencia Référence	Class Clase Classe	Current* Corriente* Courant*	Power Potencia Puissance	Volt Volt Volt	P. factor P. factor P. factor	Rated voltage Tensión nom. Tension nom.	Temp. range Rango temp. Echelle temp.	Tc Tc Tc	Sizes (mm) Dimen. (mm) Dimen. (mm)
98310103	II	350mA	1-3W	3-9Vdc	0,55	100-240vac	-20 +50°C	70°C	56x39x20
98310110	II	350ma	3-10W	9 - 31Vdc	0,85	220-240	-25 + 50°C	75°C	80x37x21
98310125	II	350ma	3,5 - 25W	10 - 72Vdc	0,9	110-240v	-25 + 50°C	85°C	131x38x29
98310203	II	700mA	1 - 3W	4 - 5Vdc	0,55	100-240vac	-20 + 50°C	70°C	56x39x20
98310225	II	700mA	14 - 25W	21 - 36Vdc	0,85	220-240vac	-20 + 50°C	75°C	131x38x29
98310240	II	700mA	40W	20-57Vdc	0,97	176-240vac	-20 + 50°C	75°C	159x79x33
98310316	II	500mA	5 - 16W	10 - 32Vdc	0,85	220-240vac	-20 + 50°C	85°C	131x38x29
98310325	II	500mA	5 - 25W	10 - 50Vdc	0,85	100-240vac	-20 + 50°C	85°C	131x38x29
98310432	II	1050mA	31W	20 - 30Vdc	0,98	220-240vac	-15 + 40°C	75°C	153x32x41

DALI

Reference Referencia Référence	Class Clase Classe	Current* Corriente* Courant*	Power Potencia Puissance	Volt Volt Volt	P. factor P. factor P. factor	Rated voltage Tensión nom. Tension nom.	Temp. range Rango temp. Echelle temp.	Tc Tc Tc	Sizes (mm) Dimen. (mm) Dimen. (mm)
98310340	II	700mA	34W	20 - 57vdc	0,97	176 - 240vac	-20 + 50°C	75°C	159x79x33
98311599	II	350mA	25w	74V Max.	0,95	220 - 240vac	-20 + 50°C	85°C	124x79x22
		500mA	35w						
		1050mA	50w						

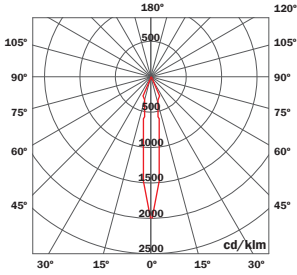


PHOTOMETRICS  
FOTOMÉTRICAS  
PHOTOMÉTRIQUES

# FOKUS

CDM-Tm 1 x 20Wm 15° η=27,89%

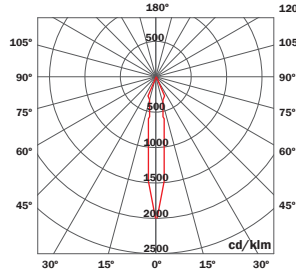
001



H (m)	D (m)	Max Lux	Med Lux
1.00	0.22	3291	1883
2.00	0.44	823	471
3.00	0.67	366	209
4.00	0.89	206	118
5.00	1.11	132	75

CDM-Tm 1 x 35Wm 15° η=27,89%

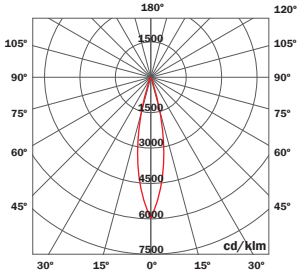
002



H (m)	D (m)	Max Lux	Med Lux
1.00	0.22	6114	3498
2.00	0.44	1528	875
3.00	0.67	679	389
4.00	0.89	382	219
5.00	1.11	245	140

HIT-T 1 x 35W 20° η=60,02%

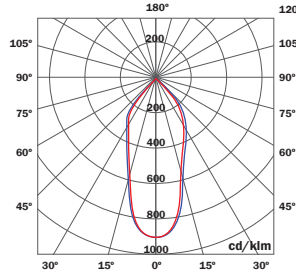
003



H (m)	D (m)	Max Lux	Med Lux
1.00	0.29	19195	11185
2.00	0.59	4799	2796
3.00	0.88	2133	1243
4.00	1.17	1200	699
5.00	1.47	768	447

HIT-T 1 x 35W 50° η=68,28%

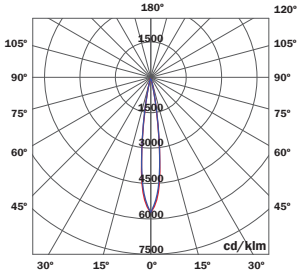
004



H (m)	D (m)	Max Lux	Med Lux
1.00	0.75	2961	1714
2.00	1.50	740	429
3.00	2.24	329	190
4.00	2.99	185	107
5.00	3.74	118	69

HIT-T 1 x 70W 20° η=60,02%

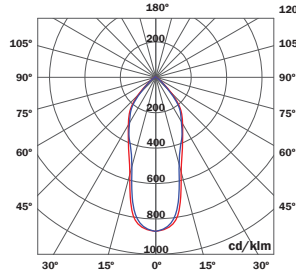
005



H (m)	D (m)	Max Lux	Med Lux
1.00	0.29	38391	22370
2.00	0.59	9598	5592
3.00	0.88	4266	2486
4.00	1.17	2399	1398
5.00	1.47	1536	895

HIT-T 1 x 70W 50° η=68,28%

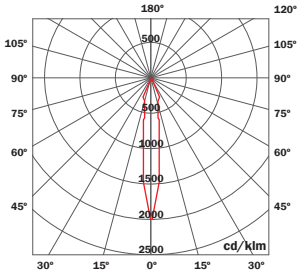
006



H (m)	D (m)	Max Lux	Med Lux
1.00	0.75	5921	3428
2.00	1.50	1480	857
3.00	2.24	658	381
4.00	2.99	370	214
5.00	3.74	237	137

HIT-T 1 x 100W 20° η=60,02%

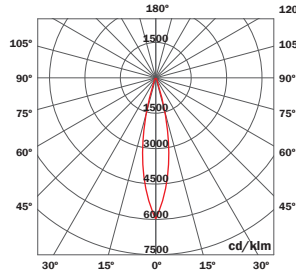
007



H (m)	D (m)	Max Lux	Med Lux
1.00	0.22	6114	3498
2.00	0.44	1528	875
3.00	0.67	679	389
4.00	0.89	382	219
5.00	1.11	245	140

HIT-T 1 x 100W 50° η=68,28%

008

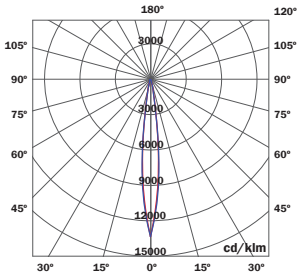


H (m)	D (m)	Max Lux	Med Lux
1.00	0.29	55259	32199
2.00	0.59	13815	8050
3.00	0.88	6140	3578
4.00	1.17	3454	2012
5.00	1.47	2210	1288

# MAGNO

CDM- Tm 20W 12° η=75,17%

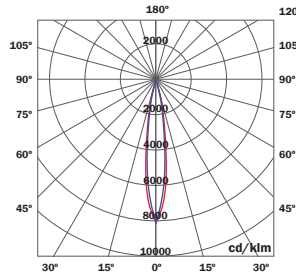
009



H (m)	D (m)	Max Lux	Med Lux
1.00	0.22	13454	8337
2.00	0.43	3363	2084
3.00	0.65	1495	926
4.00	0.86	841	521
5.00	1.08	538	333

CDM- Tm 20W 24° η=70,80%

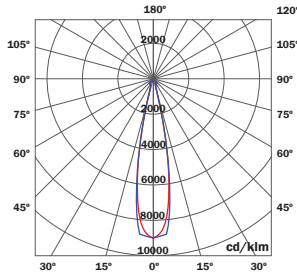
010



H (m)	D (m)	Max Lux	Med Lux
1.00	0.30	8251	5167
2.00	0.60	2063	1292
3.00	0.90	917	574
4.00	1.20	516	323
5.00	1.50	330	207

# MAGNO

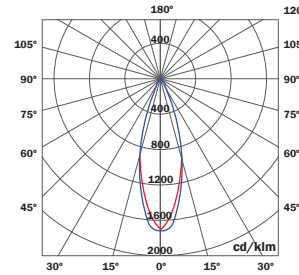
HIT-T 35W 12°  $\eta=68,09\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.38	9499	5788
2.00	0.76	2375	1447
3.00	1.14	1055	643
4.00	1.52	594	362
5.00	1.90	380	232

011

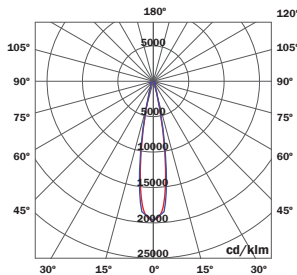
HIT-T 35W 38°  $\eta=63,03\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	5681	3217
2.00	1.15	1420	804
3.00	1.72	631	357
4.00	2.30	355	201
5.00	2.87	227	129

012

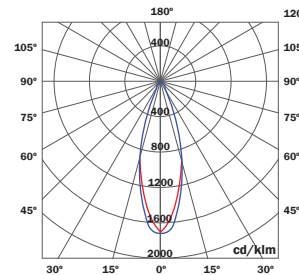
HIT-T 70W 12°  $\eta=69,06\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.35	19608	12522
2.00	0.71	4902	3130
3.00	1.06	2179	1391
4.00	1.41	1225	783
5.00	1.77	784	501

013

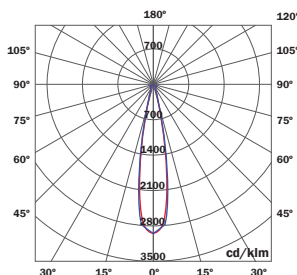
HIT-T 70W 38°  $\eta=63,03\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	11361	6435
2.00	1.15	2840	1609
3.00	1.72	1262	715
4.00	2.30	710	402
5.00	2.87	454	257

014

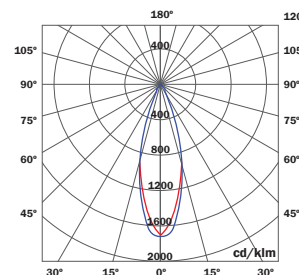
HIT-T 1 x 100W 12°



H (m)	D (m)	Max Lux	Med Lux
1	0,44	3965	2510
2	0,88	991	627
3	1,32	440	279
4	1,76	248	157
5	2,20	159	101

015

HIT-T 1 x 100W 38°

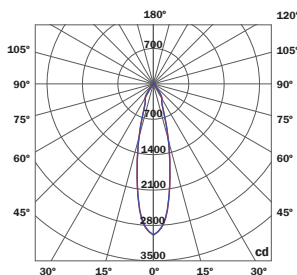


H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	16354	9262
2.00	1.15	4088	2316
3.00	1.72	1817	1029
4.00	2.30	1022	579
5.00	2.87	654	370

016

# SOLID

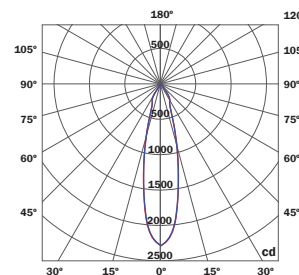
LED 1 x 16W 30° 3000K  $\eta=100\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.46	5235	3289
2.00	0.92	1309	822
3.00	1.37	582	365
4.00	1.83	327	206
5.00	2.29	209	132

209

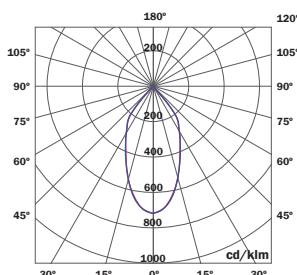
LED 1 x 26W 30° 3000K  $\eta=100\%$



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5778	3658
2	0,54	1444	914
3	0,81	642	407
4	1,08	362	228
5	1,36	232	147

210

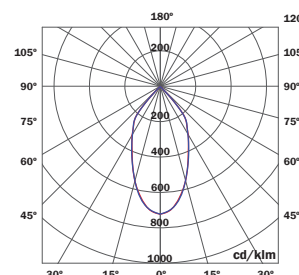
LED 1 x 16W 65° 3000K  $\eta=100\%$



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1245	652
2	1,33	312	163
3	2	138	73
4	2,67	78	41
5	3,34	50	26

211

LED 1 x 26W 65° 3000K  $\eta=100\%$



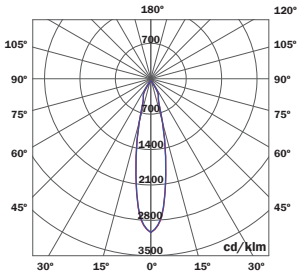
H (m)	D (m)	Max Lux	Med Lux
1	0,66	1815	950
2	1,33	454	238
3	2	202	106
4	2,67	114	60
5	3,34	73	37

212

# SOLID

LED 1 x 16W 30° 4000K  $\eta=100\%$

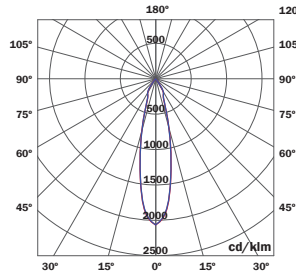
213



H (m)	D (m)	Max Lux	Med Lux
1	0,27	4079	2582
2	0,54	1019	645
3	0,81	453	287
4	1,08	255	161
5	1,36	163	104

LED 1 x 26W 30° 4000K  $\eta=100\%$

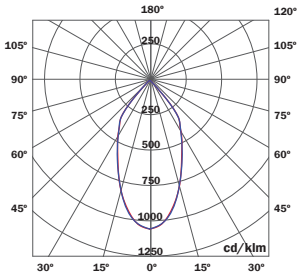
214



H (m)	D (m)	Max Lux	Med Lux
1	0,27	6005	3801
2	0,54	1501	950
3	0,81	667	423
4	1,08	376	237
5	1,36	241	152

LED 1 x 16W 65° 4000K  $\eta=100\%$

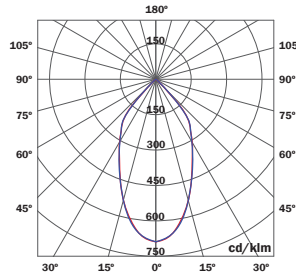
215



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1281	671
2	1,33	321	168
3	2	142	75
4	2,67	80	42
5	3,34	51	26

LED 1 x 26W 65° 4000K  $\eta=100\%$

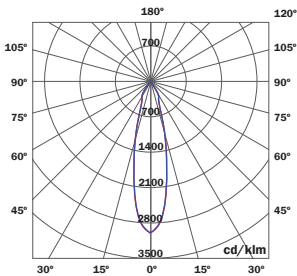
216



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1886	988
2	1,33	472	247
3	2	210	110
4	2,67	118	62
5	3,34	76	39

LED 1 x 16W 30° PEARL  $\eta=100\%$

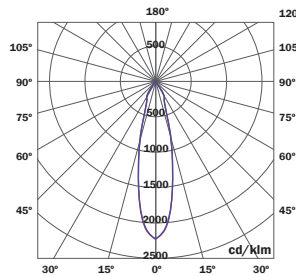
217



H (m)	D (m)	Max Lux	Med Lux
1	0,27	4079	2582
2	0,54	1019	645
3	0,81	453	287
4	1,08	255	161
5	1,36	163	104

LED 1 x 26W 30° PEARL  $\eta=100\%$

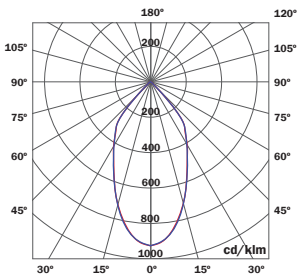
218



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5665	3586
2	0,54	1416	896
3	0,81	629	399
4	1,08	355	224
5	1,36	227	144

LED 1 x 16W 65° PEARL  $\eta=100\%$

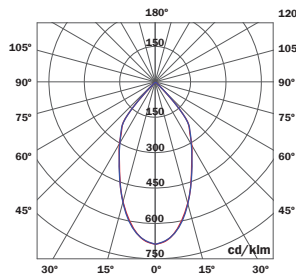
219



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1281	671
2	1,33	321	168
3	2	142	75
4	2,67	80	42
5	3,34	51	26

LED 1 x 26W 65° PEARL  $\eta=100\%$

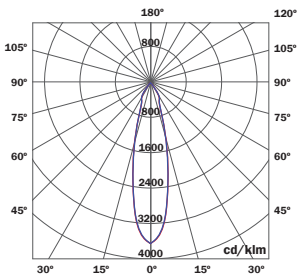
220



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1779	932
2	1,33	445	233
3	2	198	104
4	2,67	111	58
5	3,34	71	37

LED 1 x 22W 30° MEAT  $\eta=100\%$

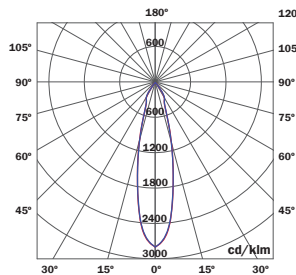
221



H (m)	D (m)	Max Lux	Med Lux
1	0,27	3399	2152
2	0,54	850	538
3	0,81	377	239
4	1,08	213	134
5	1,36	136	86

LED 1 x 32W 30° MEAT  $\eta=100\%$

222



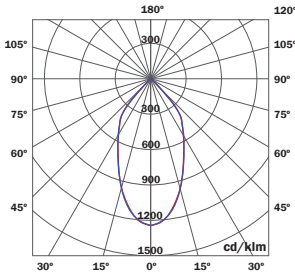
H (m)	D (m)	Max Lux	Med Lux
1	0,27	4475	2833
2	0,54	1119	708
3	0,81	497	315
4	1,08	280	177
5	1,36	179	114



# SOLID

LED 1 x 22W 65° MEAT  $\eta=100\%$

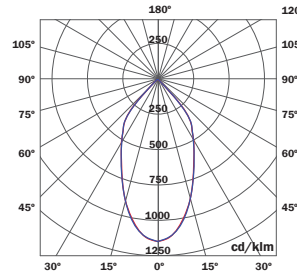
223



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1067	559
2	1,33	267	140
3	2	119	62
4	2,67	67	35
5	3,34	43	22

LED 1 x 32W 65° MEAT  $\eta=100\%$

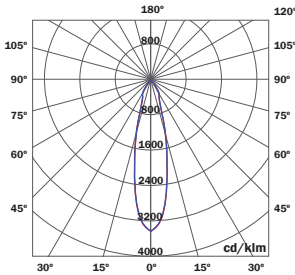
224



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1405	736
2	1,33	352	184
3	2	156	82
4	2,67	88	46
5	3,34	56	29

LED 1 x 22W 30° FISH  $\eta=100\%$

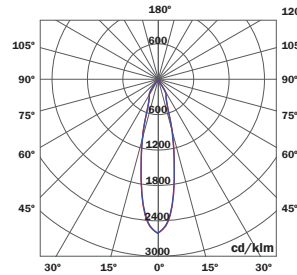
225



H (m)	D (m)	Max Lux	Med Lux
1	0,27	3931	2489
2	0,54	983	622
3	0,81	437	277
4	1,08	246	155
5	1,36	158	100

LED 1 x 32W 30° FISH  $\eta=100\%$

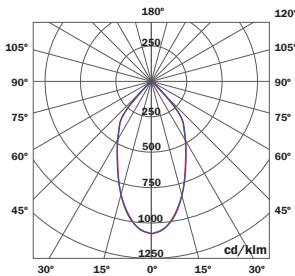
226



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5155	3263
2	0,54	1288	815
3	0,81	572	363
4	1,08	323	204
5	1,36	207	131

LED 1 x 22W 65° FISH  $\eta=100\%$

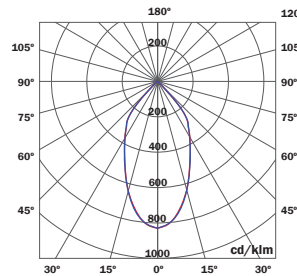
227



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1235	647
2	1,33	309	162
3	2	137	72
4	2,67	77	41
5	3,34	50	26

LED 1 x 32W 65° FISH  $\eta=100\%$

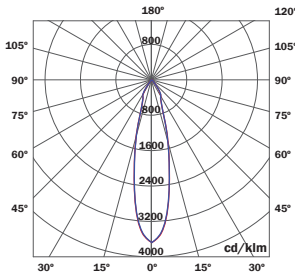
228



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1619	848
2	1,33	405	212
3	2	180	94
4	2,67	101	53
5	3,34	65	33

LED 1 x 22W 30° FRUIT  $\eta=100\%$

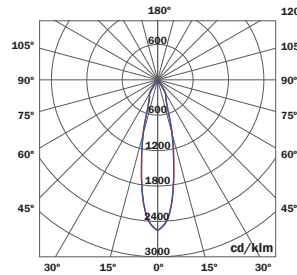
229



H (m)	D (m)	Max Lux	Med Lux
1	0,27	2889	1829
2	0,54	722	457
3	0,81	321	203
4	1,08	181	114
5	1,36	116	73

LED 1 x 32W 30° FRUIT  $\eta=100\%$

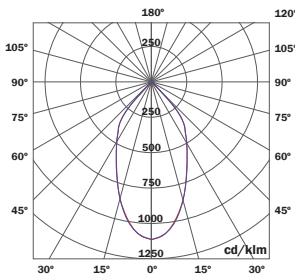
230



H (m)	D (m)	Max Lux	Med Lux
1	0,27	3761	2381
2	0,54	940	595
3	0,81	418	265
4	1,08	235	149
5	1,36	151	95

LED 1 x 22W 65° FRUIT  $\eta=100\%$

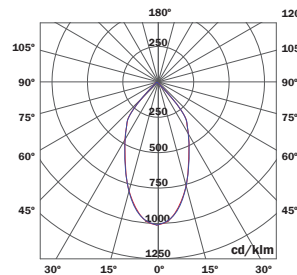
231



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1181	619
2	1,33	296	155
3	2	131	69
4	2,67	74	39
5	3,34	47	24

LED 1 x 32W 65° FRUIT  $\eta=100\%$

232

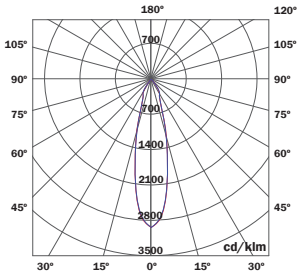


H (m)	D (m)	Max Lux	Med Lux
1	0,66	1548	811
2	1,33	387	203
3	2	172	90
4	2,67	97	51
5	3,34	62	32

# SOLID

LED 1 x 16W 30° 3000K GOLD  $\eta=100\%$

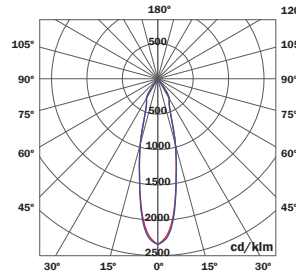
233



H (m)	D (m)	Max Lux	Med Lux
1	0,46	3961	2488
2	0,92	990	622
3	1,37	440	276
4	1,83	247	156
5	2,29	158	100

LED 1 x 26W 30° 3000K GOLD  $\eta=100\%$

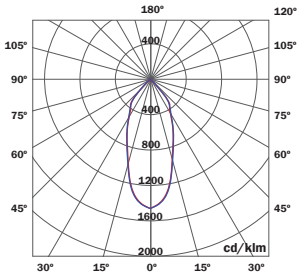
234



H (m)	D (m)	Max Lux	Med Lux
1	0,46	5771	3626
2	0,92	1443	906
3	1,37	642	402
4	1,83	361	227
5	2,29	230	146

LED 1 x 16W 65° 3000K GOLD  $\eta=100\%$

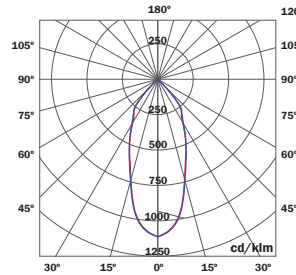
235



H (m)	D (m)	Max Lux	Med Lux
1	0,75	2006	1140
2	1,53	502	285
3	2,29	223	126
4	3,06	126	71
5	3,82	80	45

LED 1 x 26W 65° 3000K GOLD  $\eta=100\%$

236

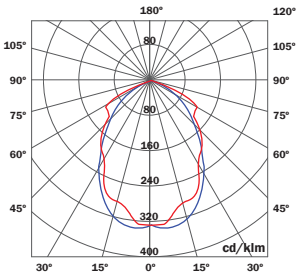


H (m)	D (m)	Max Lux	Med Lux
1	0,75	2924	1661
2	1,53	731	416
3	2,29	325	184
4	3,06	183	104
5	3,82	117	66

# ATOM

TC-D 1 x 26W  $\eta=63,77\%$

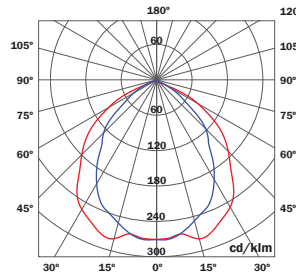
036



H (m)	D (m)	Max Lux	Med Lux
1.00	1.90	604	229
2.00	3.80	151	57
3.00	5.70	67	25
4.00	7.60	38	14
5.00	9.50	24	9

TC-D 2 x 18W  $\eta=40,54\%$

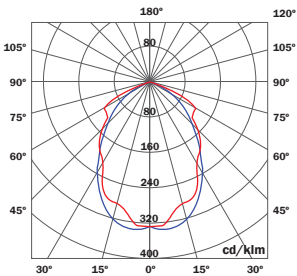
037



H (m)	D (m)	Max Lux	Med Lux
1.00	2.66	648	230
2.00	5.31	162	57
3.00	7.97	72	26
4.00	10.62	40	14
5.00	13.28	26	9

TC-D 2 x 26W  $\eta=56,27\%$

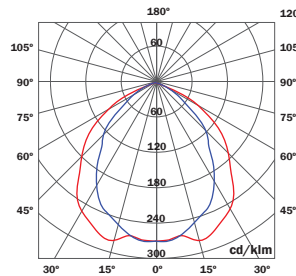
038



H (m)	D (m)	Max Lux	Med Lux
1.00	2.59	889	329
2.00	5.19	222	82
3.00	7.78	99	37
4.00	10.37	56	21
5.00	12.97	36	13

TC-D 1 x 26W  $\eta=63,77\%$

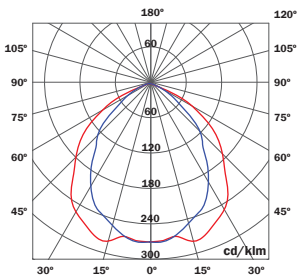
039



H (m)	D (m)	Max Lux	Med Lux
1.00	1.90	604	229
2.00	3.80	151	57
3.00	5.70	67	25
4.00	7.60	38	14
5.00	9.50	24	9

TC-DEL 2 x 18W  $\eta=40,54\%$

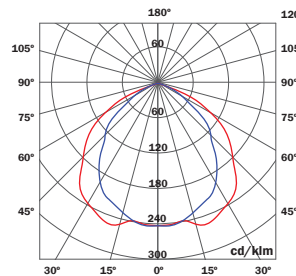
040



H (m)	D (m)	Max Lux	Med Lux
1.00	2.45	679	258
2.00	4.89	170	64
3.00	7.34	75	29
4.00	9.79	42	16
5.00	12.24	27	10

TC-DEL 2 x 26W  $\eta=56,27\%$

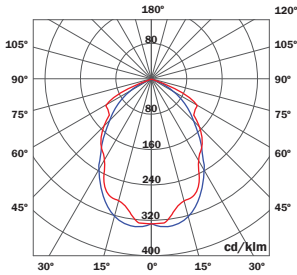
041



H (m)	D (m)	Max Lux	Med Lux
1.00	2.45	1019	387
2.00	4.89	255	97
3.00	7.34	113	43
4.00	9.79	64	24
5.00	12.24	41	15

# ATOM

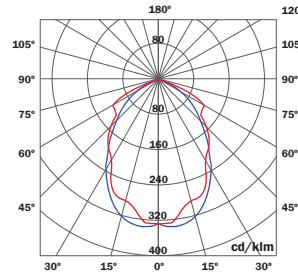
TC-TEL 1 x 32W  $\eta=63,77\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	1.90	805	306
2.00	3.80	201	76
3.00	5.70	89	34
4.00	7.60	50	19
5.00	9.50	32	12

042

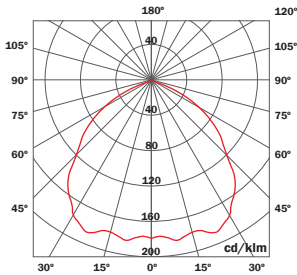
TC-TEL 1 x 42W  $\eta=63,77\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	1.90	1074	407
2.00	3.80	268	102
3.00	5.70	119	45
4.00	7.60	67	25
5.00	9.50	43	16

043

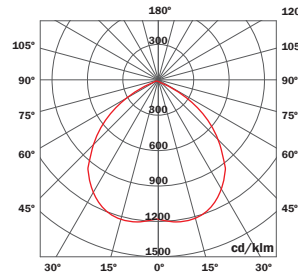
TC-TEL 2 x 32W  $\eta=49,10\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.64	875	273
2.00	5.28	219	68
3.00	7.93	97	30
4.00	10.57	55	17
5.00	13.21	35	11

044

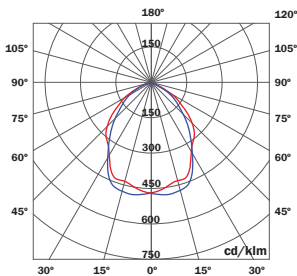
TC-TEL 2 x 42W  $\eta=45,05\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.39	1188	404
2.00	4.77	297	101
3.00	7.16	132	45
4.00	9.54	74	25
5.00	11.93	48	16

045

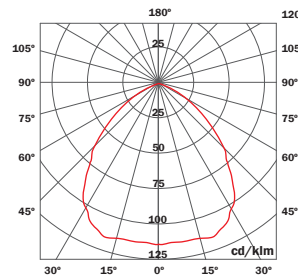
TC-D 1 x 26W  $\eta=50,94\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.18	480	170
2.00	4.37	120	42
3.00	6.55	53	19
4.00	8.74	30	11
5.00	10.92	19	7

046

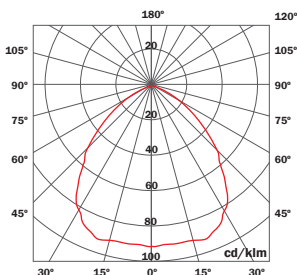
TC-D 2 x 18W  $\eta=26,78\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.27	280	99
2.00	4.55	70	25
3.00	6.82	31	11
4.00	9.09	17	6
5.00	11.36	11	4

047

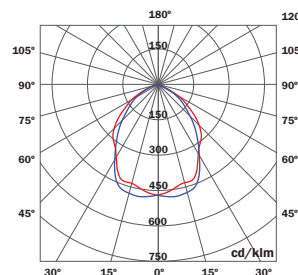
TC-D 2 x 26W  $\eta=20,86\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.17	329	124
2.00	4.35	82	31
3.00	6.52	37	14
4.00	8.70	21	8
5.00	10.87	13	5

048

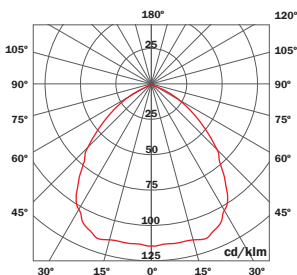
TC-DEL 1 x 26W  $\eta=50,94\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.18	480	170
2.00	4.37	120	42
3.00	6.55	53	19
4.00	8.74	30	11
5.00	10.92	19	7

049

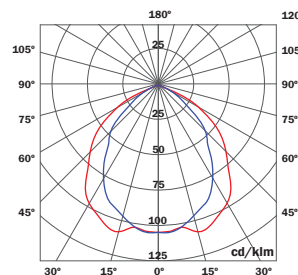
TC-DEL 2 x 18W  $\eta=26,78\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	2.27	280	41
2.00	4.54	70	10
3.00	6.81	31	5
4.00	9.07	17	3
5.00	11.34	11	2

050

TC-DEL 2 x 26W  $\eta=20,86\%$



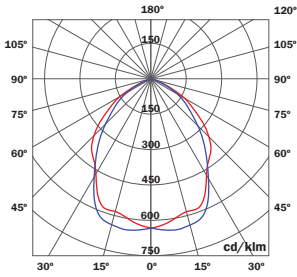
H (m)	D (m)	Max Lux	Med Lux
1.00	2.34	752	282
2.00	4.67	188	71
3.00	7.01	84	31
4.00	9.34	47	18
5.00	11.68	30	11

051

# ATOM

TC-TEL 1 x 32W  $\eta=50,94\%$

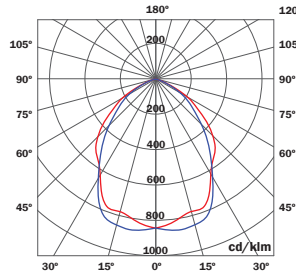
052



H (m)	D (m)	Max Lux	Med Lux
1.00	2.18	640	227
2.00	4.37	160	57
3.00	6.55	71	25
4.00	8.74	40	14
5.00	10.92	26	9

TC-TEL 1 x 42W  $\eta=50,94\%$

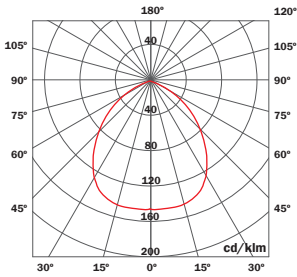
053



H (m)	D (m)	Max Lux	Med Lux
1.00	2.18	853	302
2.00	4.37	213	76
3.00	6.55	95	34
4.00	8.74	53	19
5.00	10.92	34	12

TC-TEL 2 x 32W  $\eta=34,86\%$

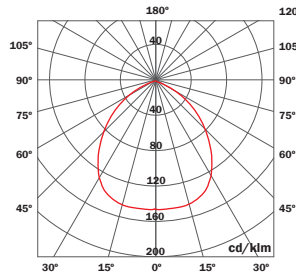
054



H (m)	D (m)	Max Lux	Med Lux
1.00	2.28	719	249
2.00	4.56	180	62
3.00	6.85	80	28
4.00	9.13	45	16
5.00	11.41	29	10

TC-TEL 2 x 42W  $\eta=34,86\%$

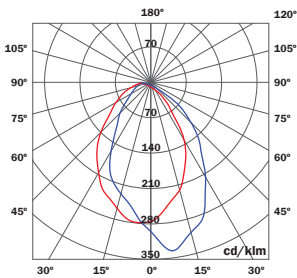
055



H (m)	D (m)	Max Lux	Med Lux
1.00	2.28	958	332
2.00	4.56	240	83
3.00	6.85	106	37
4.00	9.13	60	21
5.00	11.41	38	13

TC-DEL 1 x 26W  $\eta=42,07\%$

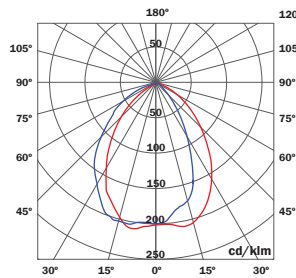
056



H (m)	D (m)	Max Lux	Med Lux
1.00	1.53	578	207
2.00	3.06	145	52
3.00	4.59	64	23
4.00	6.13	36	13
5.00	7.66	23	8

TC-DEL 2 x 26W  $\eta=36,73\%$

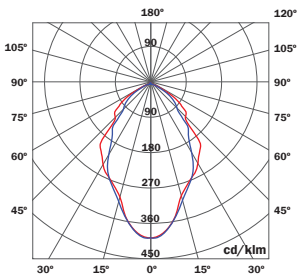
057



H (m)	D (m)	Max Lux	Med Lux
1.00	1.65	768	327
2.00	3.30	192	82
3.00	4.95	85	36
4.00	6.61	48	20
5.00	8.26	31	13

HIT-DE 1 x 70W  $\eta=60,02\%$

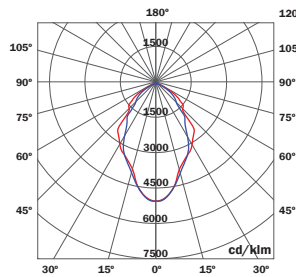
058



H (m)	D (m)	Max Lux	Med Lux
1.00	1.68	2190	911
2.00	3.36	548	228
3.00	5.04	243	101
4.00	6.73	137	57
5.00	8.41	88	36

HIT-DE 150W  $\eta=60,02\%$

059

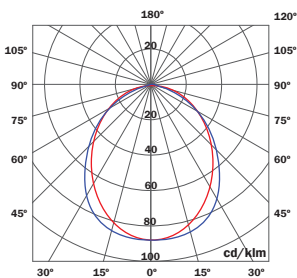


H (m)	D (m)	Max Lux	Med Lux
1.00	1.68	2190	911
2.00	3.36	548	228
3.00	5.04	243	101
4.00	6.73	137	57
5.00	8.41	88	36

# HORMA

TC-DEL 2 x 26W  $\eta=21,41\%$

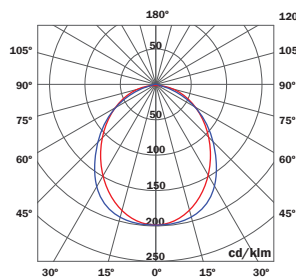
033



H (m)	D (m)	Max Lux	Med Lux
1.00	2.07	157	53
2.00	4.14	39	13
3.00	6.21	17	6
4.00	8.28	10	3
5.00	10.36	6	2

TC-DEL 2 x 13W  $\eta=28\%$

034

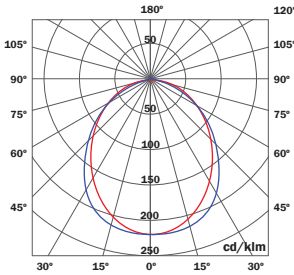


H (m)	D (m)	Max Lux	Med Lux
1.00	2.16	200	68
2.00	4.31	50	7
3.00	6.47	22	8
4.00	8.63	13	4
5.00	10.78	8	3

# HORMA

TC-DEL 2 x 18W  $\eta=22,48\%$

035

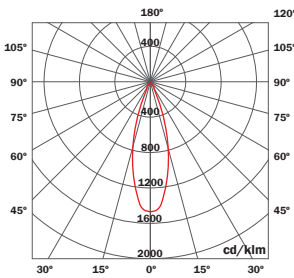


H (m)	D (m)	Max Lux	Med Lux
1.00	2.11	220	74
2.00	4.21	55	18
3.00	6.32	24	8
4.00	8.43	14	5
5.00	10.53	9	3

# OLIMPO

CDM-Tm 20W 38°  $\eta=53,51\%$

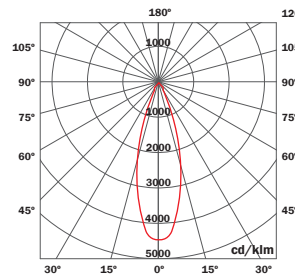
093



H (m)	D (m)	Max Lux	Med Lux
1.00	0.56	2488	1550
2.00	1.11	622	388
3.00	1.67	276	172
4.00	2.23	155	97
5.00	2.78	100	62

CDM-Tm 35W 38°  $\eta=53,51\%$

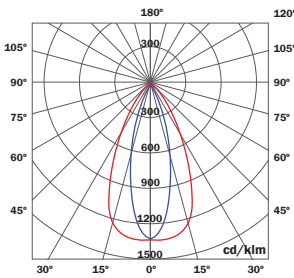
094



H (m)	D (m)	Max Lux	Med Lux
1.00	0.56	4621	2880
2.00	1.11	1155	720
3.00	1.67	513	320
4.00	2.23	289	180
5.00	2.78	185	115

CDM-Tm 20w Oval  $\eta=47,94\%$

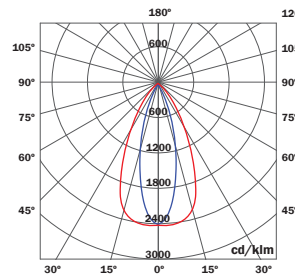
095



H (m)	D (m)	Max Lux	Med Lux
1.00	1.03	1325	802
2.00	2.06	331	201
3.00	3.08	147	89
4.00	4.11	83	50
5.00	5.14	53	32

CDM-Tm 35w Oval  $\eta=47,94\%$

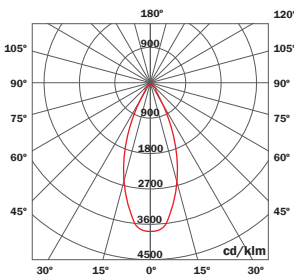
096



H (m)	D (m)	Max Lux	Med Lux
1.00	1.03	2461	1490
2.00	2.06	615	373
3.00	3.08	273	166
4.00	4.11	154	93
5.00	5.14	98	60

HIT-T 35W 38°  $\eta=56,59\%$

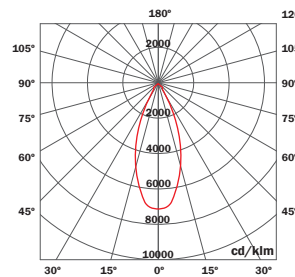
097



H (m)	D (m)	Max Lux	Med Lux
1.00	0.72	3835	2253
2.00	1.43	959	563
3.00	2.15	426	250
4.00	2.86	240	141
5.00	3.58	153	90

HIT-T 70W 38°  $\eta=57,54\%$

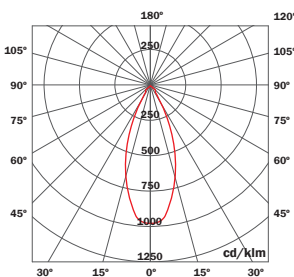
098



H (m)	D (m)	Max Lux	Med Lux
1.00	0.74	7272	4342
2.00	1.47	1818	1085
3.00	2.21	808	482
4.00	2.94	455	271
5.00	3.68	291	174

HIT-T 150W 38°  $\eta=55,62\%$

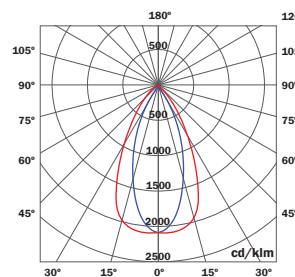
099



H (m)	D (m)	Max Lux	Med Lux
1.00	0.77	13803	8043
2.00	1.53	3451	2011
3.00	2.30	1534	894
4.00	3.06	863	503
5.00	3.83	552	322

HIT-T 35W Oval  $\eta=51,81\%$

100

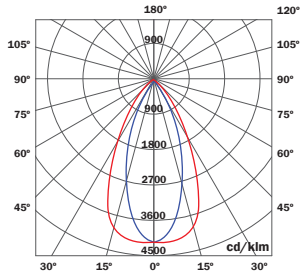


H (m)	D (m)	Max Lux	Med Lux
1.00	1.19	2121	1237
2.00	2.38	530	309
3.00	3.57	236	137
4.00	4.75	133	77
5.00	5.94	85	49

# OLIMPO

HIT-T 70W Oval  $\eta=51,81\%$

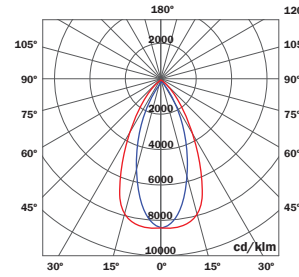
101



H (m)	D (m)	Max Lux	Med Lux
1.00	1.19	4242	2475
2.00	2.38	1060	619
3.00	3.57	471	275
4.00	4.75	265	155
5.00	5.94	170	99

HIT-T 150W Oval  $\eta=51,81\%$

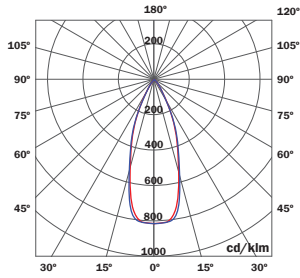
102



H (m)	D (m)	Max Lux	Med Lux
1.00	1.19	8997	5250
2.00	2.38	2249	1312
3.00	3.57	1000	583
4.00	4.75	562	328
5.00	5.94	360	210

SDW 50W

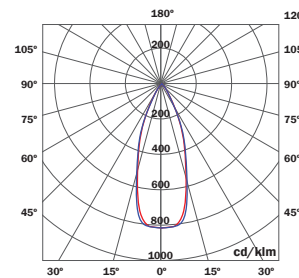
103



H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	1952	1229
2.00	1.36	488	307
3.00	2.03	217	137
4.00	2.71	122	77
5.00	3.39	78	49

SDW 100W

104

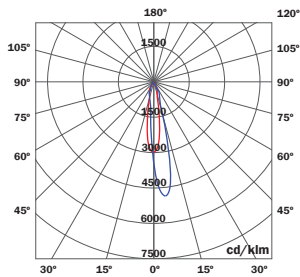


H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	3985	2509
2.00	1.36	996	627
3.00	2.03	443	279
4.00	2.71	249	157
5.00	3.39	159	100

# PASCAL

CDM-Tm 20W 12°  $\eta=53,19\%$

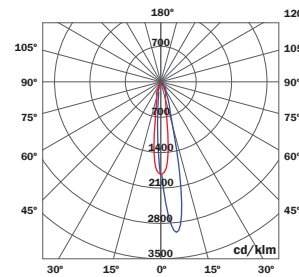
081



H (m)	D (m)	Max Lux	Med Lux
1.00	0.32	4800	2484
2.00	0.63	1200	621
3.00	0.95	533	276
4.00	1.26	300	155
5.00	1.58	192	99

CDM-Tm 35W 12°  $\eta=53,19\%$

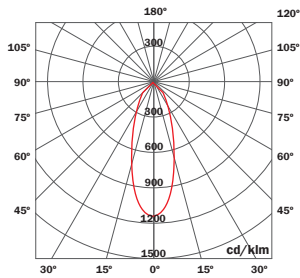
082



H (m)	D (m)	Max Lux	Med Lux
1.00	0.32	8917	4615
2.00	0.63	2229	1154
3.00	0.95	991	513
4.00	1.26	557	288
5.00	1.58	357	185

CDM-Tm 20W 38°  $\eta=71,21\%$

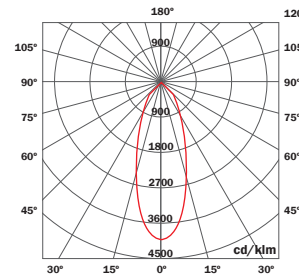
083



H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	1941	1135
2.00	1.35	485	284
3.00	2.03	216	126
4.00	2.70	121	71
5.00	3.38	78	45

CDM-Tm 35W 38°  $\eta=71,21\%$

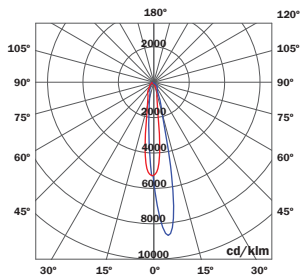
084



H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	3605	2108
2.00	1.35	901	527
3.00	2.03	401	234
4.00	2.70	225	132
5.00	3.38	144	84

HIT-TC 35W 12°  $\eta=62,95\%$

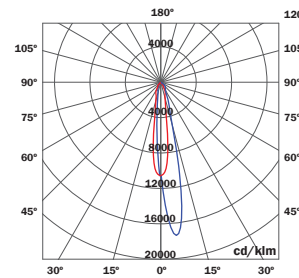
085



H (m)	D (m)	Max Lux	Med Lux
1.00	0.39	8864	4494
2.00	0.78	2216	1123
3.00	1.17	985	499
4.00	1.55	554	281
5.00	1.94	355	180

HIT-TC 70W 12°  $\eta=62,95\%$

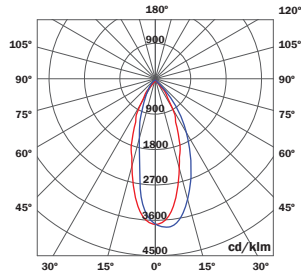
086



H (m)	D (m)	Max Lux	Med Lux
1.00	0.39	17190	8715
2.00	0.78	4297	2179
3.00	1.17	1910	968
4.00	1.55	1074	545
5.00	1.94	688	349

# PASCAL

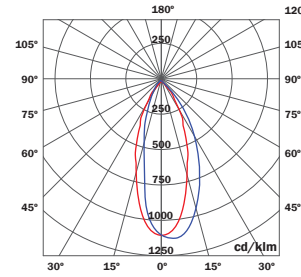
HIT-TC 35W 38°  $\eta=68,12\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.74	3806	2146
2.00	1.48	952	537
3.00	2.22	423	238
4.00	2.96	238	134
5.00	3.69	152	86

087

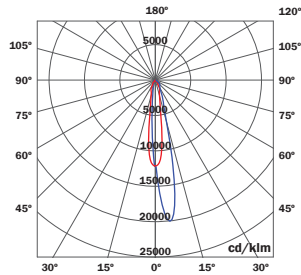
HIT-TC 70W 38°  $\eta=68,12\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.74	7382	4163
2.00	1.48	1846	1041
3.00	2.22	820	463
4.00	2.96	461	260
5.00	3.69	295	167

088

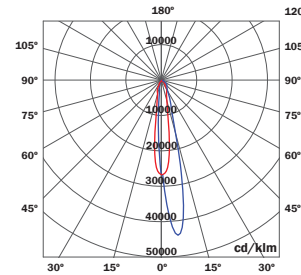
HIT-T 70W 12°  $\eta=57,90\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.34	20210	10463
2.00	0.68	5053	2616
3.00	1.02	2246	1163
4.00	1.37	1263	654
5.00	1.71	808	419

089

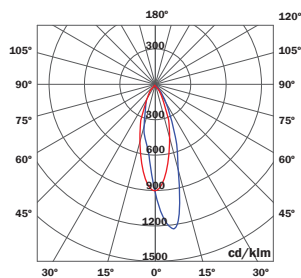
HIT-T 150W 12°  $\eta=57,90\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.34	42870	22194
2.00	0.68	10717	5549
3.00	1.02	4763	2466
4.00	1.37	2679	1387
5.00	1.71	1715	888

090

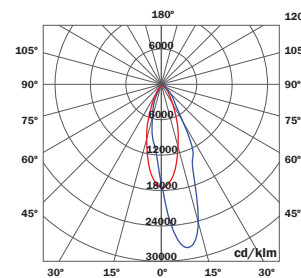
HIT-T 70w 38°  $\eta=66,28\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.59	12009	5804
2.00	1.18	3002	1451
3.00	1.77	1334	645
4.00	2.36	751	363
5.00	2.95	480	232

091

HIT-T 150W 38°  $\eta=68,92\%$

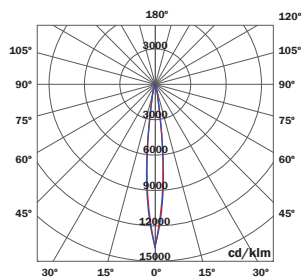


H (m)	D (m)	Max Lux	Med Lux
1.00	0.64	27101	11404
2.00	1.29	6775	2851
3.00	1.93	3011	1267
4.00	2.57	1694	713
5.00	3.22	1084	456

092

# MORRIS

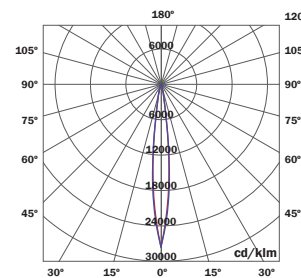
HIT-T 35W 12°  $\eta=63,83\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.23	14239	8510
2.00	0.46	3560	2127
3.00	0.69	1582	946
4.00	0.92	890	532
5.00	1.15	570	340

060

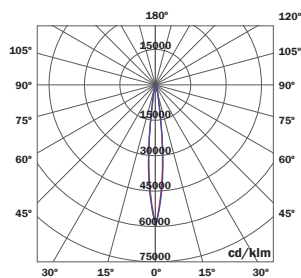
HIT-T 70W 12°  $\eta=63,83\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.23	28478	17019
2.00	0.46	7119	4255
3.00	0.69	3164	1891
4.00	0.92	1780	1064
5.00	1.15	1139	681

061

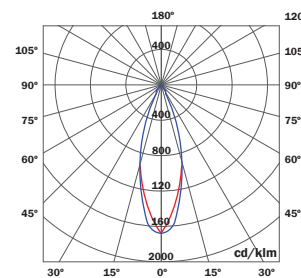
HIT-T 150W 12°  $\eta=63,83\%$



H (m)	D (m)	Max Lux	Med Lux
1.00	0.23	60407	36101
2.00	0.46	15102	9025
3.00	0.69	6712	4011
4.00	0.92	3775	2256
5.00	1.15	2416	1444

062

HIT-T 150W 12°  $\eta=63,83\%$



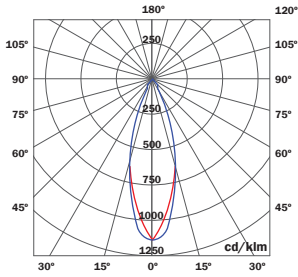
H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	5681	3217
2.00	1.15	1420	804
3.00	1.72	631	357
4.00	2.30	355	201
5.00	2.87	227	129

063

# MORRIS

HIT-T 70W 38°  $\eta=63,03\%$

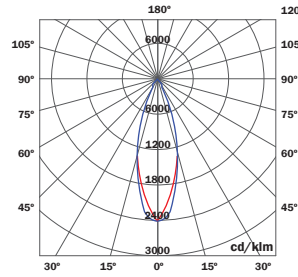
064



H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	11361	6435
2.00	1.15	2840	1609
3.00	1.72	1262	715
4.00	2.30	710	402
5.00	2.87	454	257

HIT-T 150W 38°  $\eta=63,03\%$

065

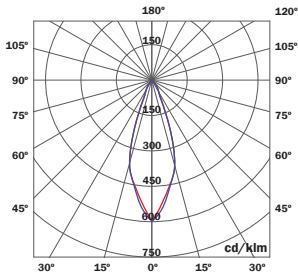


H (m)	D (m)	Max Lux	Med Lux
1.00	0.57	24100	13649
2.00	1.15	6025	3412
3.00	1.72	2678	1517
4.00	2.30	1506	853
5.00	2.87	964	546

# KANT

LED  $\eta=100\%$

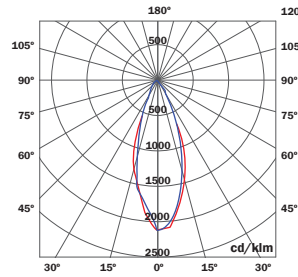
073



H (m)	D (m)	Max Lux	Med Lux
1.00	0.65	621	354
2.00	1.29	155	89
3.00	1.94	69	39
4.00	2.58	39	22
5.00	3.23	25	14

LED  $\eta=99,62\%$

074

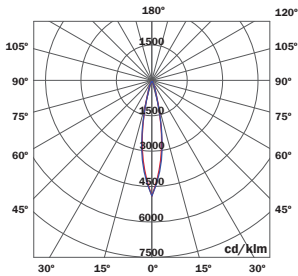


H (m)	D (m)	Max Lux	Med Lux
1.00	0.71	717	398
2.00	1.42	179	99
3.00	2.13	80	44
4.00	2.85	45	25
5.00	3.56	29	16

# LYNX

EPISTAR 3 x 1W 2700K 15°  $\eta=100,00\%$

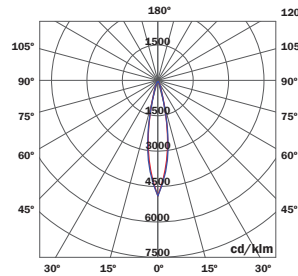
066



H (m)	D (m)	Max Lux	Med Lux
1.00	0.35	1095	683
2.00	0.70	274	171
3.00	1.05	122	76
4.00	1.40	68	43
5.00	1.75	44	27

EPISTAR 3 x 1W 4000K 15°  $\eta=100,00\%$

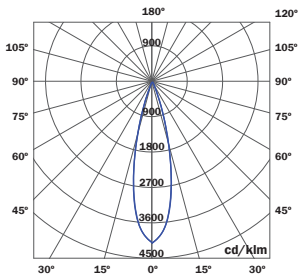
067



H (m)	D (m)	Max Lux	Med Lux
1.00	0.35	1201	578
2.00	0.70	300	144
3.00	1.05	133	64
4.00	1.40	75	36
5.00	1.75	48	23

EPISTAR 6 x 1W 2700K 45°  $\eta=100,00\%$

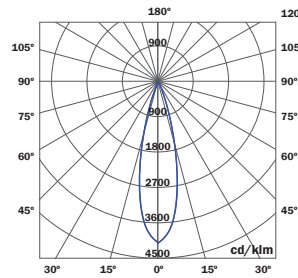
068



H (m)	D (m)	Max Lux	Med Lux
1.00	0.45	1717	800
2.00	0.91	429	200
3.00	1.36	191	89
4.00	1.82	107	50
5.00	2.27	69	32

EPISTAR 6 x 1W 4000K 45°  $\eta=100,00\%$

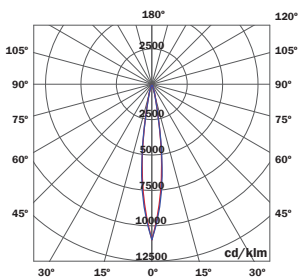
069



H (m)	D (m)	Max Lux	Med Lux
1.00	0.45	1595	997
2.00	0.91	399	249
3.00	1.36	177	111
4.00	1.82	100	62
5.00	2.27	64	40

EPISTAR 15 x 1W 2700K 45°

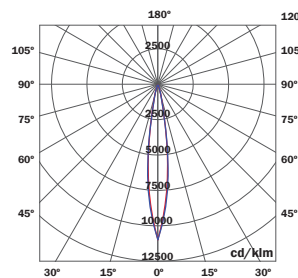
070



H (m)	D (m)	Max Lux	Med Lux
1.00	0.25	11873	7637
2.00	0.50	2968	1909
3.00	0.75	1319	849
4.00	1.00	742	477
5.00	1.25	475	305

EPISTAR 15 x 1W 4000K 45°

071



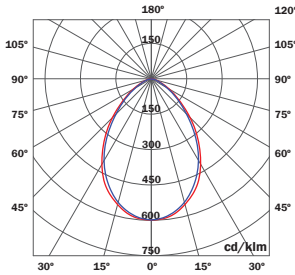
H (m)	D (m)	Max Lux	Med Lux
1.00	0.25	11873	7637
2.00	0.50	2968	1909
3.00	0.75	1319	849
4.00	1.00	742	477
5.00	1.25	475	305



# JUNO

EPSTAR 15 x 1W 4000K 60°  $\eta=100,00\%$

072

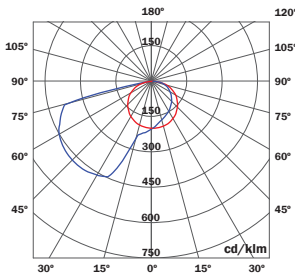


H (m)	D (m)	Max Lux	Med Lux
1.00	1.67	526	221
2.00	3.34	132	55
3.00	5.02	58	25
4.00	6.69	33	14
5.00	8.36	21	9

# PLAS

PLAS-1 LED CREE 1W 3000K

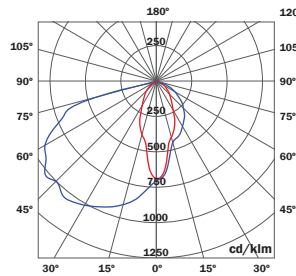
078



H (m)	D (m)	Max Lux	Med Lux
1.00	4.04	21	2
2.00	8.08	5	0
3.00	12.12	2	0
4.00	16.16	1	0
5.00	20.20	1	0

PLAS-2 LED CREE 1W 3000K

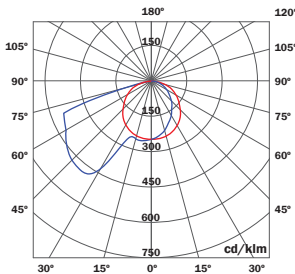
079



H (m)	D (m)	Max Lux	Med Lux
1.00	0.75	18	3
2.00	1.50	5	1
3.00	2.25	2	0
4.00	2.99	1	0
5.00	3.74	1	0

PLAS-3 LED CREE 1W 3000K

080

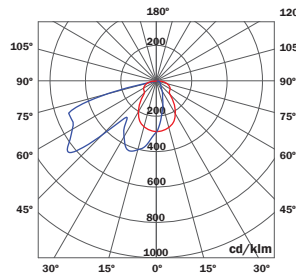


H (m)	D (m)	Max Lux	Med Lux
1.00	3.37	18	3
2.00	6.74	4	1
3.00	10.11	2	0
4.00	13.48	1	0
5.00	16.85	1	0

# DOLE

OSRAM LED 1.2W 2800-3250K  $\eta=100,00\%$

075

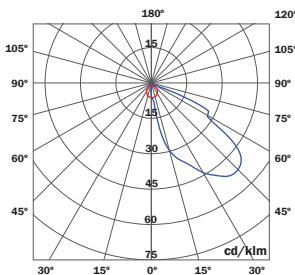


H (m)	D (m)	Max Lux	Med Lux
1.00	1.66	14	3
2.00	3.31	3	1
3.00	4.97	2	0
4.00	6.63	1	0
5.00	8.29	1	0

# KOPEK

EDISON LED 1 x 3W 6500K 38°

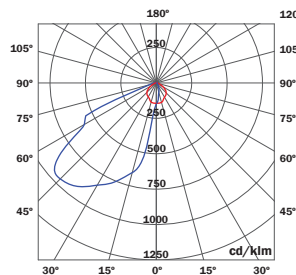
076



H (m)	D (m)	Max Lux	Med Lux
1.00	2.33	30	4
2.00	4.67	7	1
3.00	7.00	3	0
4.00	9.34	2	0
5.00	11.67	1	0

EDISON LED 1 x 3W 3000K 38°

077

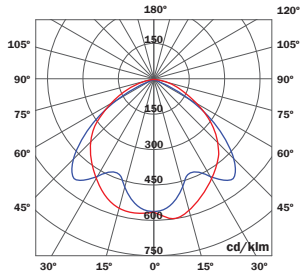


H (m)	D (m)	Max Lux	Med Lux
1.00	2.75	33	5
2.00	5.49	8	1
3.00	8.24	4	1
4.00	10.99	2	0
5.00	13.74	1	0

# ORE

1 x T5 54W  $\eta=33,99\%$

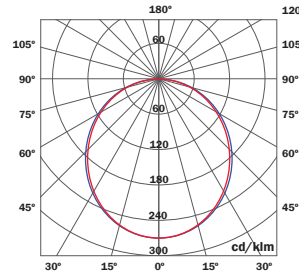
114



H (m)	D (m)	Max Lux	Med Lux
1.00	2.75	591	147
2.00	5.50	148	37
3.00	8.25	66	16
4.00	11.00	37	9
5.00	13.75	24	6

1 x T5 54W  $\eta=72,13\%$

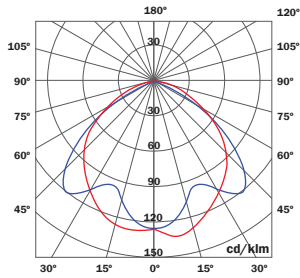
115



H (m)	D (m)	Max Lux	Med Lux
1.00	2.68	1223	322
2.00	5.36	306	80
3.00	8.04	136	36
4.00	10.72	76	20
5.00	13.40	49	13

1 x T5 54W  $\eta=33,99\%$

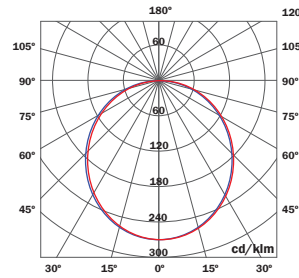
116



H (m)	D (m)	Max Lux	Med Lux
1.00	2.69	601	151
2.00	5.39	150	38
3.00	8.08	67	17
4.00	10.77	38	9
5.00	13.46	24	6

2 x T5 54W  $\eta=68,60\%$

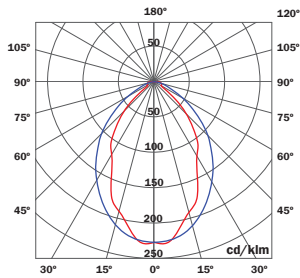
117



H (m)	D (m)	Max Lux	Med Lux
1.00	2.69	2337	616
2.00	5.39	584	154
3.00	8.08	260	68
4.00	10.77	146	38
5.00	13.46	93	25

1 x T5 54W antideslumbrante

118

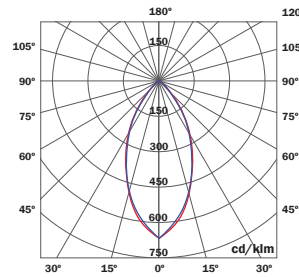


H (m)	D (m)	Max Lux	Med Lux
1.00	1.26	1039	423
2.00	2.52	260	106
3.00	3.77	115	47
4.00	5.03	65	26
5.00	6.29	42	17

# NECKAR

HIT-T 70W  $\eta=57,57\%$

112

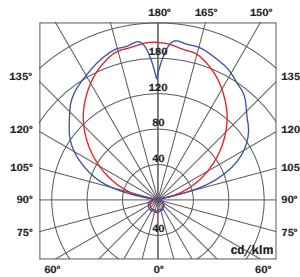


H (m)	D (m)	Max Lux	Med Lux
1.00	0.92	4465	2362
2.00	1.84	1116	591
3.00	2.76	496	262
4.00	3.68	279	148
5.00	4.61	179	94

# MOTIVE

2 x T5 54W suspensión  $\eta=66,67\%$

119

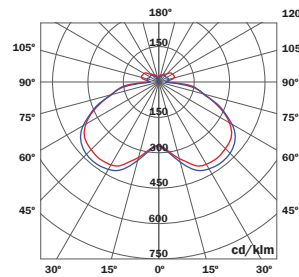


H (m)	D (m)	Max Lux	Med Lux
1.00	13.87	64	12
2.00	11.09	101	19
3.00	8.32	179	34
4.00	5.55	403	77
5.00	2.77	1611	308

# NITRO

E27 1 x 60W  $\eta=55,42\%$

120

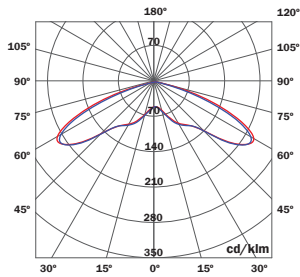


H (m)	D (m)	Max Lux	Med Lux
1.00	7.99	316	27
2.00	15.99	79	7
3.00	23.98	35	3
4.00	31.98	20	2
5.00	39.97	13	1

# OLEO

E27 1 x 60W  $\eta=72,24\%$

121

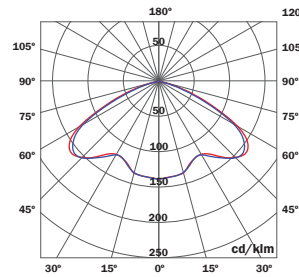


H (m)	D (m)	Max Lux	Med Lux
1.00	2.06	228	73
2.00	4.12	57	18
3.00	6.18	25	8
4.00	8.24	14	5
5.00	10.30	9	3

# TIMBAL

E40 1 x 400W  $\eta=54,70\%$

122

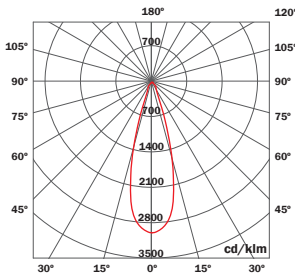


H (m)	D (m)	Max Lux	Med Lux
1.00	4.48	4736	878
2.00	8.97	1184	219
3.00	13.45	526	98
4.00	17.93	296	55
5.00	22.42	189	35

# HALOGEN HALOGÉNAS HALOGÈNES

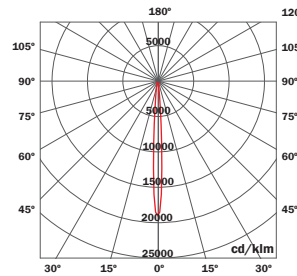
QR-CB51 MASTERLINE ES Philips

QR-CB51 20W 36° MASTERLine ES 3000K Ref. 97100020  
123



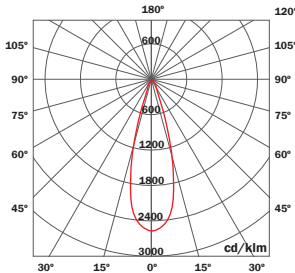
H (m)	D (m)	Max Lux	Med Lux
1.00	0.54	1006	638
2.00	1.08	252	160
3.00	1.63	112	71
4.00	2.17	63	40
5.00	2.71	40	26

QR-CB51 30W 8° MASTERLine ES 3000K Ref.97100030  
124



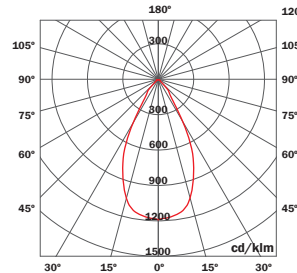
H (m)	D (m)	Max Lux	Med Lux
1.00	0.13	11001	7187
2.00	0.26	2750	1797
3.00	0.40	1222	799
4.00	0.53	688	449
5.00	0.66	440	287

QR-CB51 30W 36° MASTERLine ES 3000K Ref.97101030  
125



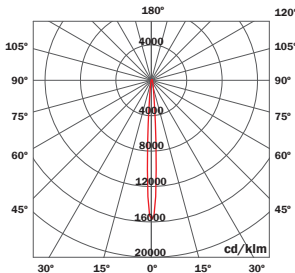
H (m)	D (m)	Max Lux	Med Lux
1.00	0.61	1608	976
2.00	1.22	402	244
3.00	1.83	179	108
4.00	2.43	100	61
5.00	3.04	64	39

QR-CB51 30W 60° MASTERLine ES 3000K Ref.97102030  
126



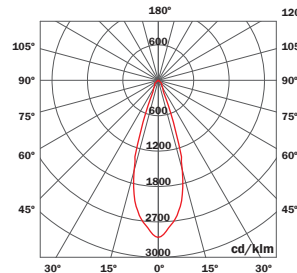
H (m)	D (m)	Max Lux	Med Lux
1.00	1.02	750	414
2.00	2.04	188	104
3.00	3.06	83	46
4.00	4.09	47	26
5.00	5.11	30	17

QR-CB51 45W 8° MASTERLine ES 3000K Ref. 97100045  
127



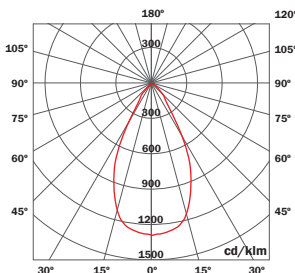
H (m)	D (m)	Max Lux	Med Lux
1.00	0.16	16007	10332
2.00	0.33	4002	2583
3.00	0.49	1779	1148
4.00	0.66	1000	646
5.00	0.82	640	413

QR-CB51 45W 36° MASTERLine ES 3000K Ref. 97101045  
128



H (m)	D (m)	Max Lux	Med Lux
1.00	0.16	16007	10332
2.00	0.33	4002	2583
3.00	0.49	1779	1148
4.00	0.66	1000	646
5.00	0.82	640	413

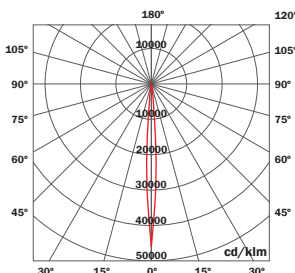
QR-CB51 45W 60° MASTERLine ES 3000K Ref. 97102045  
129



H (m)	D (m)	Max Lux	Med Lux
1.00	0.99	1400	764
2.00	1.98	350	191
3.00	2.96	156	85
4.00	3.95	88	48
5.00	4.94	56	31

QR-111 50W 8° Aluline PRO 3000K Ref.97110050

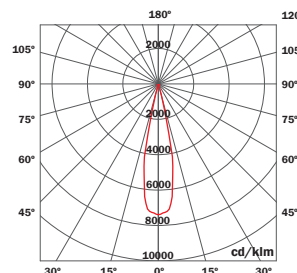
130



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	23091	13934
2.00	0.25	5773	3483
3.00	0.37	2566	1548
4.00	0.50	1443	871
5.00	0.62	924	557

QR-111 50W 24° Aluline PRO 3000K Ref. 97111050

131

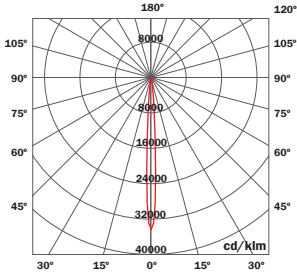


H (m)	D (m)	Max Lux	Med Lux
1.00	0.40	4007	2606
2.00	0.80	1002	651
3.00	1.21	445	290
4.00	1.61	250	163
5.00	2.01	160	104

# HALOGEN HALOGÉNAS HALOGÈNES

**QR-111 75W 8° Aluline PRO 3000K Ref. 97110075**

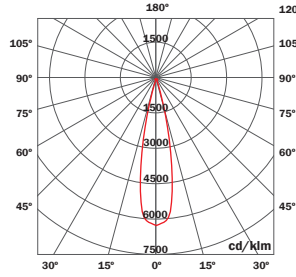
132



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	29894	19611
2.00	0.25	7474	4903
3.00	0.37	3322	2179
4.00	0.49	1868	1226
5.00	0.62	1196	784

**QR-111 75W 24° Aluline PRO 3000K Ref. 97111075**

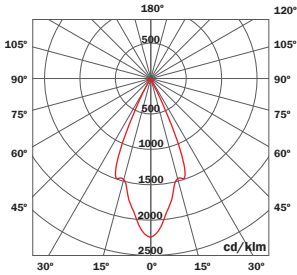
133



H (m)	D (m)	Max Lux	Med Lux
1.00	0.39	5306	3507
2.00	0.79	1327	877
3.00	1.18	590	390
4.00	1.57	332	219
5.00	1.97	212	140

**QR-111 75W 45° Aluline PRO 3000K Ref. 97112075**

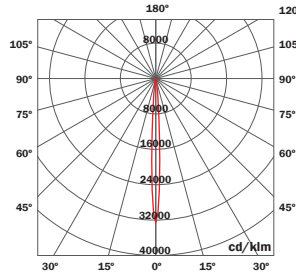
134



H (m)	D (m)	Max Lux	Med Lux
1.00	0.84	1903	993
2.00	1.68	476	248
3.00	2.51	211	110
4.00	3.35	119	62
5.00	4.19	76	40

**QR-111 100W 8° Aluline PRO 3000K Ref. 97110100**

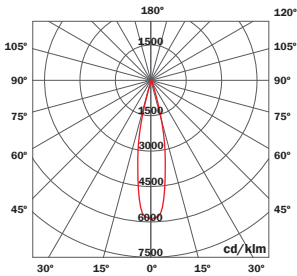
135



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	47829	30695
2.00	0.24	11957	7674
3.00	0.36	5314	3411
4.00	0.48	2989	1918
5.00	0.59	1913	1228

**QR-111 100W 24° Aluline PRO 3000K Ref.97111100**

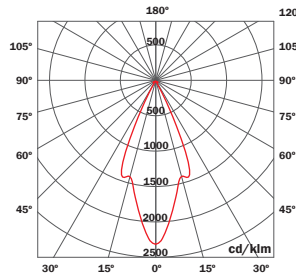
136



H (m)	D (m)	Max Lux	Med Lux
1.00	0.40	8482	5404
2.00	0.80	2120	1351
3.00	1.20	942	600
4.00	1.59	530	338
5.00	1.99	339	216

**QR-111 100W 45° Aluline PRO 3000K Ref.97112100**

137

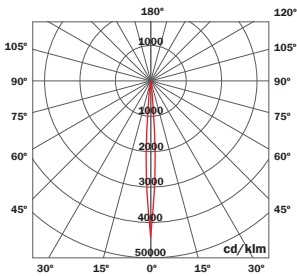


H (m)	D (m)	Max Lux	Med Lux
1.00	0.83	2793	1403
2.00	1.66	698	351
3.00	2.49	310	156
4.00	3.32	175	88
5.00	4.15	112	56

# HALOGEN HALOGÉNAS HALOGÈNES

**QR-111 30W 8° Masterline 3000K Ref. 97110030**

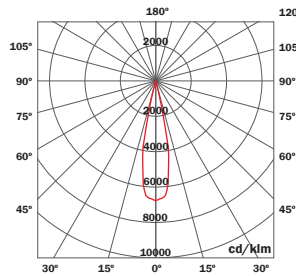
138



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	23091	13934
2.00	0.25	5773	3483
3.00	0.37	2566	1548
4.00	0.50	1443	871
5.00	0.62	924	557

**QR-111 30W 24° Masterline 3000K Ref. 97111030**

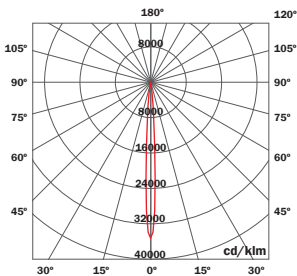
139



H (m)	D (m)	Max Lux	Med Lux
1.00	0.40	4007	2606
2.00	0.80	1002	651
3.00	1.21	445	290
4.00	1.61	250	163
5.00	2.01	160	104

**QR-111 45W 8° Masterline 3000K Ref. 97110045**

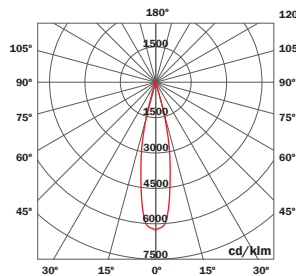
140



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	29894	19611
2.00	0.25	7474	4903
3.00	0.37	3322	2179
4.00	0.49	1868	1226
5.00	0.62	1196	784

**QR-111 45W 24° Masterline 3000K Ref. 97111045**

141



H (m)	D (m)	Max Lux	Med Lux
1.00	0.39	5306	3507
2.00	0.79	1327	877
3.00	1.18	590	390
4.00	1.57	332	219
5.00	1.97	212	140

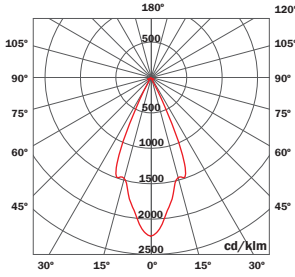
## QR-111 MASTERLine Philips

# HALOGEN HALOGÉNAS HALOGÈNES

QR-111 MASTERLine Philips

QR-111 45W 45° Masterline 3000K Ref. 97112045

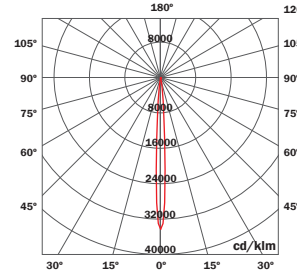
142



H (m)	D (m)	Max Lux	Med Lux
1.00	0.84	1903	993
2.00	1.68	476	248
3.00	2.51	211	110
4.00	3.35	119	62
5.00	4.19	76	40

QR-111 60W 8° Masterline 3000K Ref. 97110060

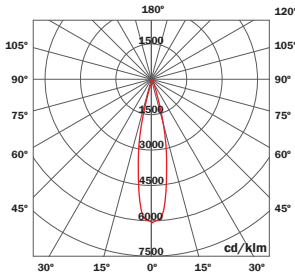
143



H (m)	D (m)	Max Lux	Med Lux
1.00	0.12	47829	30695
2.00	0.24	11957	7674
3.00	0.36	5314	3411
4.00	0.48	2989	1918
5.00	0.59	1913	1228

QR-111 60W 24° Masterline 3000K Ref. 97111060

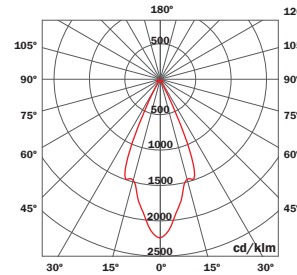
144



H (m)	D (m)	Max Lux	Med Lux
1.00	0.40	8482	5404
2.00	0.80	2120	1351
3.00	1.20	942	600
4.00	1.59	530	338
5.00	1.99	339	216

QR-111 60W 45° Masterline 3000K Ref. 97112060

145



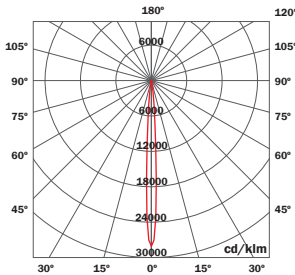
H (m)	D (m)	Max Lux	Med Lux
1.00	0.83	2793	1403
2.00	1.66	698	351
3.00	2.49	310	156
4.00	3.32	175	88
5.00	4.15	112	56

# DISCHARGE DESCARGA DÉCHARGE

CDM-R111 MASTERC Philips

CDM-R111 20W 10° MASTERC 3000K Ref. 97311020

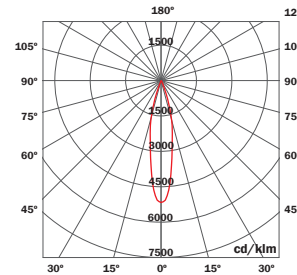
146



H (m)	D (m)	Max Lux	Med Lux
1.00	0.16	21218	13692
2.00	0.31	5304	3423
3.00	0.47	2358	1521
4.00	0.63	1326	856
5.00	0.78	849	548

CDM-R111 20W 24° MASTERC 3000K Ref. 97312020

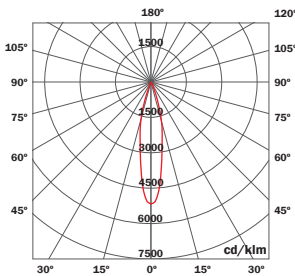
147



H (m)	D (m)	Max Lux	Med Lux
1.00	0.38	2620	1630
2.00	0.75	655	408
3.00	1.13	291	181
4.00	1.51	164	102
5.00	1.88	105	65

CDM-R111 35W 24° MASTERC 3000K Ref. 97312035

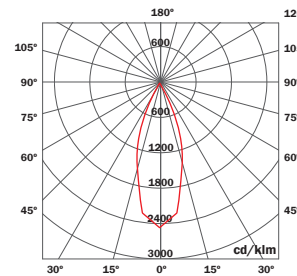
148



H (m)	D (m)	Max Lux	Med Lux
1.00	0.38	7075	4401
2.00	0.75	1769	1100
3.00	1.13	786	489
4.00	1.51	442	275
5.00	1.88	283	176

CDM-R111 35W 40° MASTERC 3000K Ref. 97313035

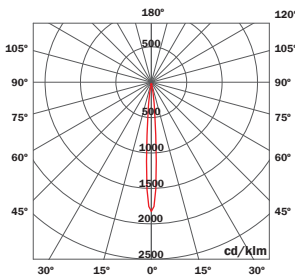
149



H (m)	D (m)	Max Lux	Med Lux
1.00	0.69	3338	1930
2.00	1.38	834	483
3.00	2.07	371	214
4.00	2.76	209	121
5.00	3.45	134	77

CDM-R111 70W 24° MASTERC 3000K Ref. 97312070

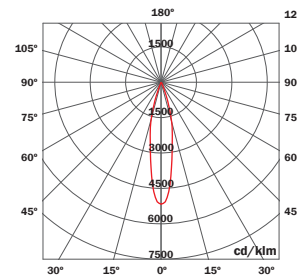
150



H (m)	D (m)	Max Lux	Med Lux
1.00	0.17	48419	31289
2.00	0.34	12105	7822
3.00	0.51	5380	3477
4.00	0.68	3026	1956
5.00	0.85	1937	1252

CDM-R111 70W 40° MASTERC 3000K Ref. 97313070

151



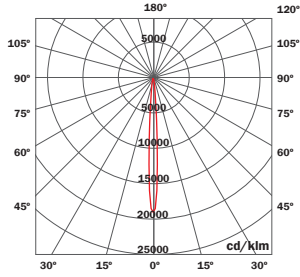
H (m)	D (m)	Max Lux	Med Lux
1.00	0.42	13953	8497
2.00	0.83	3488	2124
3.00	1.25	1550	944
4.00	1.66	872	531
5.00	2.08	558	340

# DISCHARGE DESCARGA DÉCHARGE

CDM-R111 MASTERC Philips

CDM-R111 70W 10° MASTERC 3000K Ref. 97314070

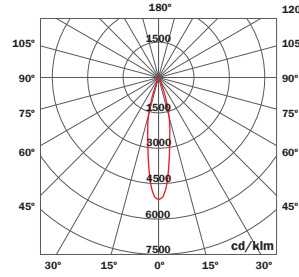
152



H (m)	D (m)	Max Lux	Med Lux
1.00	0.17	48418	24425
2.00	0.34	12105	6106
3.00	0.5	5380	2714
4.00	0.67	3026	1527
5.00	0.84	1937	977

CDM-R111 35W 10° MASTERC 4200K Ref. 97315035

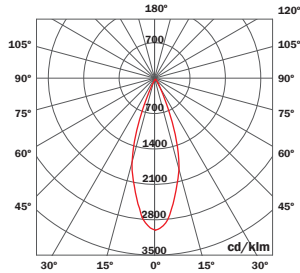
153



H (m)	D (m)	Max Lux	Med Lux
1.00	0.15	28601	14350
2.00	0.30	7150	3587
3.00	0.45	3178	1594
4.00	0.60	1788	897
5.00	0.75	1144	574

CDM-R111 35W 40° MASTERC 4200K Ref. 97317035

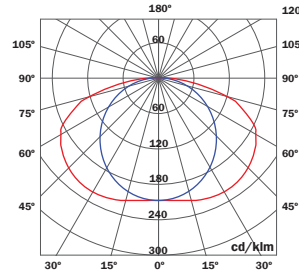
154



H (m)	D (m)	Max Lux	Med Lux
1.00	0.69	3337	1415
2.00	1.38	834	354
3.00	2.07	371	157
4.00	2.75	209	88
5.00	3.44	133	57

CDM-R111 70W 10° MASTERC 4200K Ref. 97318070

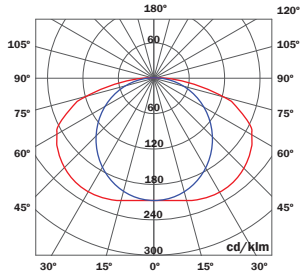
155



H (m)	D (m)	Max Lux	Med Lux
1.00	0.17	48418	24425
2.00	0.34	12105	6106
3.00	0.50	5380	2714
4.00	0.67	3026	1527
5.00	0.84	1937	977

CDM-R111 70W 24° MASTERC 4200K Ref. 97319070

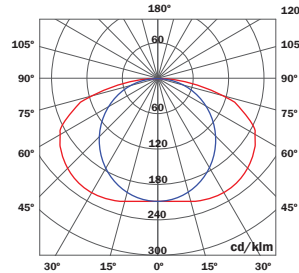
156



H (m)	D (m)	Max Lux	Med Lux
1.00	0.41	13947	6576
2.00	0.83	3487	1644
3.00	1.24	1550	731
4.00	1.66	872	411
5.00	2.07	558	263

CDM-R111 70W 40° MASTERC 4200K Ref. 97320070

157



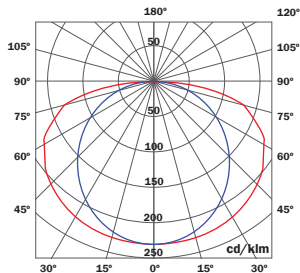
H (m)	D (m)	Max Lux	Med Lux
1.00	0.62	8300	3648
2.00	1.24	2075	912
3.00	1.86	922	405
4.00	2.48	519	228
5.00	3.10	332	146

# FLUORESCENT FLUORESCENCIA FLUORESCENCE

MASTER TL-D ECO T8 Philips

T8 32W 3000K MASTER TL-D ECO Ref. 97400032

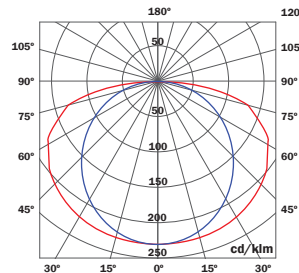
161



H (m)	D (m)	Max Lux	Med Lux
1.00	8.95	767	59
2.00	17.89	192	15
3.00	26.84	85	7
4.00	35.79	48	4
5.00	44.74	31	2

T8 32W 4000K MASTER TL-D ECO Ref. 97401032

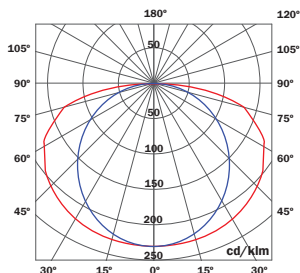
162



H (m)	D (m)	Max Lux	Med Lux
1.00	8.95	767	59
2.00	17.89	192	15
3.00	26.84	85	7
4.00	35.79	48	4
5.00	44.74	31	2

T8 32W 6500K MASTER TL-D ECO Ref. 97402032

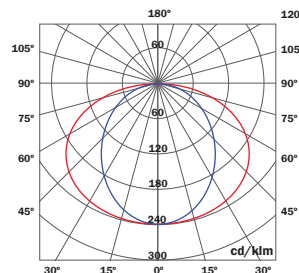
163



H (m)	D (m)	Max Lux	Med Lux
1.00	8.95	767	59
2.00	17.89	192	15
3.00	26.84	85	7
4.00	35.79	48	4
5.00	44.74	31	2

T8 51W 3000K MASTER TL-D ECO Ref. 97400051

164



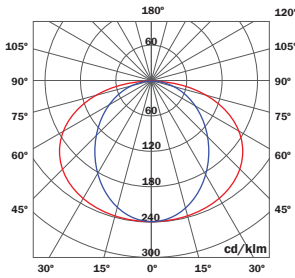
H (m)	D (m)	Max Lux	Med Lux
1.00	8.95	767	59
2.00	17.89	192	15
3.00	26.84	85	7
4.00	35.79	48	4
5.00	44.74	31	2

# FLUORESCENT FLUORESCENCIA FLUORESCENCE

MASTER TL-D ECO T8 Philips

T8 51W 4000K MASTER TL-D ECO Ref. 97401051

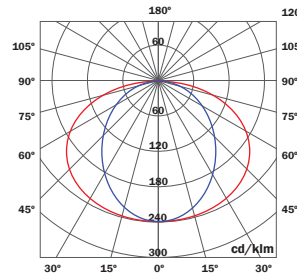
165



H (m)	D (m)	Max Lux	Med Lux
1.00	5.41	1258	191
2.00	10.81	315	48
3.00	16.22	140	21
4.00	21.63	79	12
5.00	27.03	50	8

T8 51W 6500K MASTER TL-D ECO Ref. 97402051

166

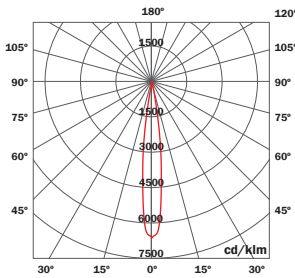


H (m)	D (m)	Max Lux	Med Lux
1.00	5.41	1210	184
2.00	10.81	303	46
3.00	16.22	134	20
4.00	21.63	76	11
5.00	27.03	48	7

# LED LED LED

QR-CB51 10W 2700K 15° LEDSPOT Ref. 97541000

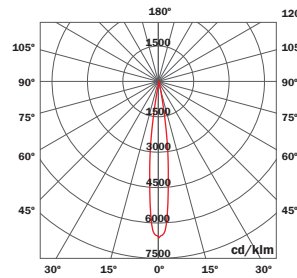
167



H (m)	D (m)	Max Lux	Med Lux
1.00	0.26	4100	2000
2.00	0.53	1025	500
3.00	0.79	456	222
4.00	1.05	256	125
5.00	1.32	164	80

QR-CB51 10W 3000K 15° LEDSPOT Ref. 97541010

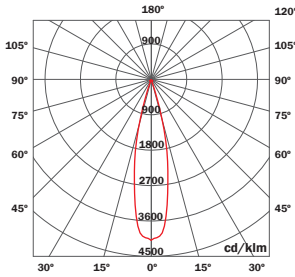
168



H (m)	D (m)	Max Lux	Med Lux
1.00	0.26	4200	2049
2.00	0.53	1050	512
3.00	0.79	467	228
4.00	1.05	263	128
5.00	1.32	168	82

QR-CB51 10W 2700K 24° LEDSPOT Ref. 97551000

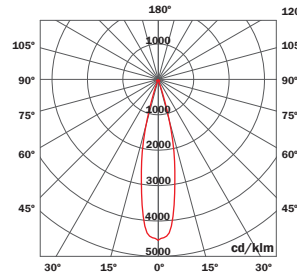
169



H (m)	D (m)	Max Lux	Med Lux
1.00	0.41	1880	885
2.00	0.81	470	221
3.00	1.22	209	98
4.00	1.63	118	55
5.00	2.03	75	35

QR-CB51 10W 3000K 24° LEDSPOT Ref. 97551010

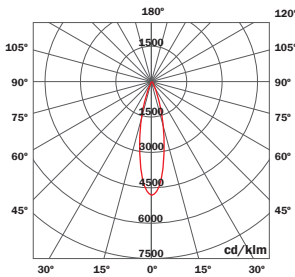
170



H (m)	D (m)	Max Lux	Med Lux
1.00	0.43	1760	824
2.00	0.85	440	206
3.00	1.28	196	92
4.00	1.70	110	51
5.00	2.13	70	33

QR-CB51 10W 4000K 24° LEDSPOT Ref. 97551020

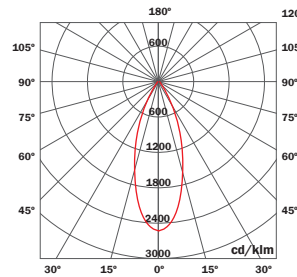
171



H (m)	D (m)	Max Lux	Med Lux
1.00	0.43	2000	936
2.00	0.85	500	234
3.00	1.28	222	104
4.00	1.70	125	58
5.00	2.13	80	37

QR-CB51 10W 2700K 36° LEDSPOT Ref. 97561000

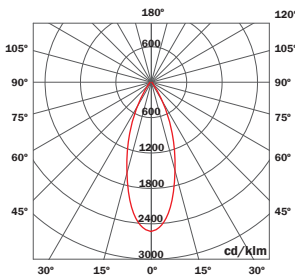
172



H (m)	D (m)	Max Lux	Med Lux
1.00	0.64	960	417
2.00	1.28	240	104
3.00	1.91	107	46
4.00	2.55	60	26
5.00	3.19	38	17

QR-CB51 10W 3000K 36° LEDSPOT Ref. 97561010

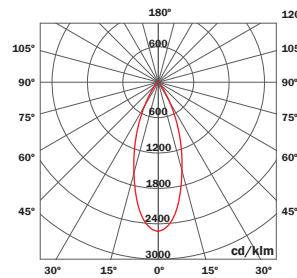
173



H (m)	D (m)	Max Lux	Med Lux
1.00	0.64	1010	438
2.00	1.28	252	110
3.00	1.91	112	49
4.00	2.55	63	27
5.00	3.19	40	18

QR-CB51 10W 4000K 36° LEDSPOT Ref. 97561020

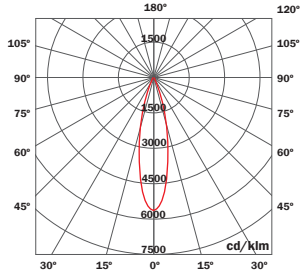
174



H (m)	D (m)	Max Lux	Med Lux
1.00	0.64	1020	443
2.00	1.28	255	111
3.00	1.91	113	49
4.00	2.55	64	28
5.00	3.19	41	18

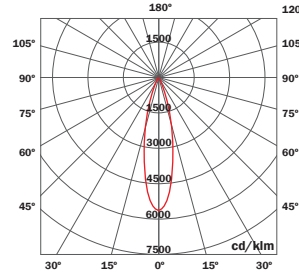
# LED LED LED

**QR-111 10W 2700K 24° LEDSPOT Ref. 97551100 Ref. 97651100** **175**



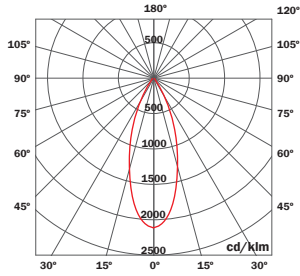
H (m)	D (m)	Max Lux	Med Lux
1.00	0.41	3200	1512
2.00	0.83	800	378
3.00	1.24	356	168
4.00	1.66	200	94
5.00	2.07	128	60

**QR-111 10W 3000K 24° LEDSPOT Ref. 97551110 Ref. 97651110** **176**



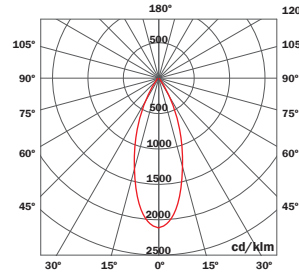
H (m)	D (m)	Max Lux	Med Lux
1.00	0.41	3370	1592
2.00	0.83	843	398
3.00	1.24	374	177
4.00	1.66	211	100
5.00	2.07	135	64

**QR-111 10W 2700K 40° LEDSPOT Ref. 97571100 Ref. 97671100** **177**



H (m)	D (m)	Max Lux	Med Lux
1.00	0.72	1090	456
2.00	1.43	273	114
3.00	2.15	121	51
4.00	2.86	68	29
5.00	3.58	44	18

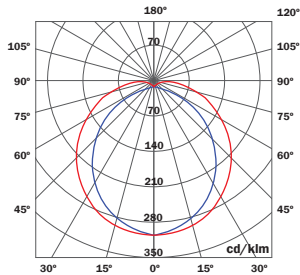
**QR-111 10W 3000K 40° LEDSPOT Ref. 97571110 Ref. 97671110** **178**



H (m)	D (m)	Max Lux	Med Lux
1.00	0.72	1150	482
2.00	1.43	288	120
3.00	2.15	128	54
4.00	2.86	72	30
5.00	3.58	46	19

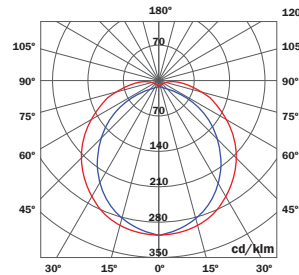
# LED LED LED

**T8 11W 4000K MASTER LED TUBE Ref. 97502011** **179**



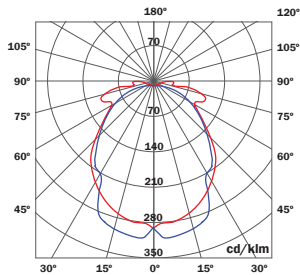
H (m)	D (m)	Max Lux	Med Lux
1.00	4.33	254	33
2.00	4.66	63	8
3.00	12.99	28	4
4.00	17.31	16	2
5.00	21.64	10	1

**T8 11W 6500K MASTER LED TUBE Ref. 97503011** **180**



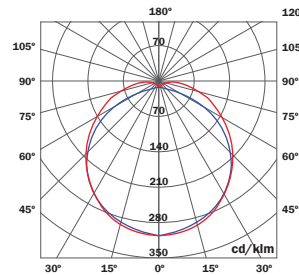
H (m)	D (m)	Max Lux	Med Lux
1.00	3.83	263	34
2.00	7.65	66	8
3.00	11.48	29	4
4.00	15.30	16	2
5.00	19.13	11	1

**T8 22W 4000K MASTER LED TUBE Ref. 97502022** **181**



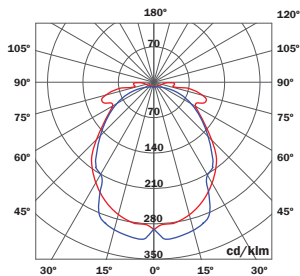
H (m)	D (m)	Max Lux	Med Lux
1.00	3.76	490	42
2.00	7.52	120	10
3.00	11.28	51	4
4.00	15.05	29	3
5.00	18.81	20	2

**T8 22W 6500K MASTER LED TUBE Ref. 97503022** **182**



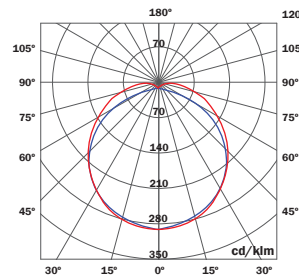
H (m)	D (m)	Max Lux	Med Lux
1.00	3.76	499	47
2.00	7.52	125	12
3.00	11.28	55	5
4.00	15.05	31	3
5.00	18.81	20	2

**T8 25W 4000K MASTER LED TUBE Ref. 97502025** **183**



H (m)	D (m)	Max Lux	Med Lux
1.00	3.96	550	45
2.00	7.92	132	10
3.00	11.88	60	4
4.00	15.84	34	3
5.00	19.80	21	2

**T8 25W 6500K MASTER LED TUBE Ref. 97503025** **184**



H (m)	D (m)	Max Lux	Med Lux
1.00	3.96	554	48
2.00	7.92	138	12
3.00	11.88	62	5
4.00	15.84	35	3
5.00	19.80	22	2

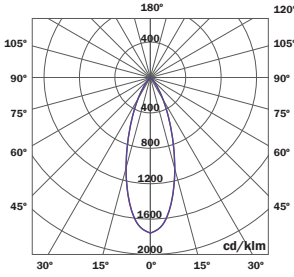


# LED LED LED

QR-CB51

QR-CB51 LED 7W 2700K 36°

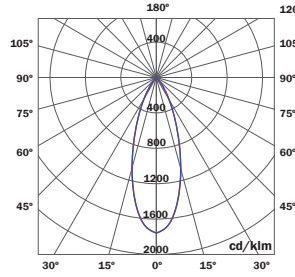
237



H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	833	491
2.00	1.37	208	126
3.00	2.05	93	55
4.00	2.73	52	31
5.00	3.42	33	20

QR-CB51 LED 7W 4000K 36°

238

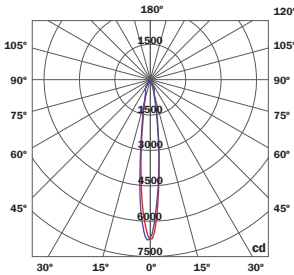


H (m)	D (m)	Max Lux	Med Lux
1.00	0.68	833	491
2.00	1.37	208	126
3.00	2.05	93	55
4.00	2.73	52	31
5.00	3.42	33	20

# FOOD&RETAIL LIGHTING MODULE LED

LED 3000K 20° 16W

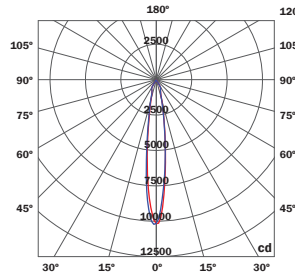
185



H (m)	D (m)	Max Lux	Med Lux
1	0.27	7598	4478
2	0,54	1713	1045
3	0,81	735	455
4	1,08	408	254
5	1,36	258	161

LED 3000K 20° 26W

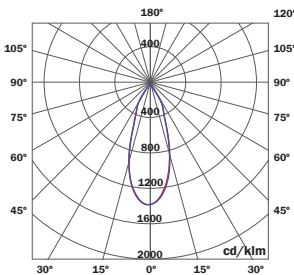
186



H (m)	D (m)	Max Lux	Med Lux
1	0.27	11071	6525
2	0,54	2496	1523
3	0,81	1072	663
4	1,08	594	370
5	1,36	376	235

LED 3000K 56° 16W

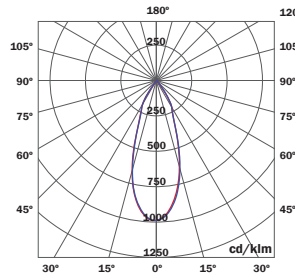
187



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2501	1418
2	1.33	563	333
3	2	241	145
4	2.67	134	81
5	3.34	85	51

LED 3000K 56° 26W

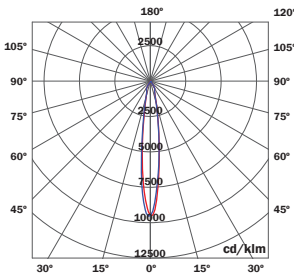
188



H (m)	D (m)	Max Lux	Med Lux
1	0,66	3645	2066
2	1.33	820	485
3	2	352	211
4	2.67	195	118
5	3.34	123	75

LED 4000K 20° 16W

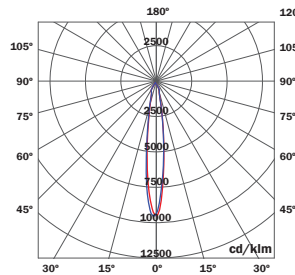
189



H (m)	D (m)	Max Lux	Med Lux
1	0.27	7815	4606
2	0,54	1762	1075
3	0,81	756	468
4	1,08	419	261
5	1,36	265	166

LED 4000K 20° 26W

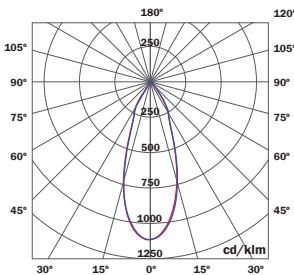
190



H (m)	D (m)	Max Lux	Med Lux
1	0.27	11505	6781
2	0,54	2594	1582
3	0,81	1114	689
4	1,08	618	385
5	1,36	391	244

LED 4000K 56° 16W

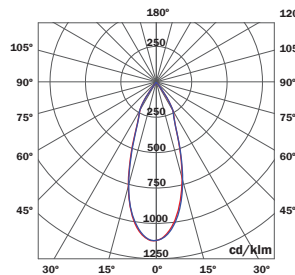
191



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2573	1458
2	1.33	579	342
3	2	248	149
4	2.67	138	83
5	3.34	87	53

LED 4000K 56° 26W

192

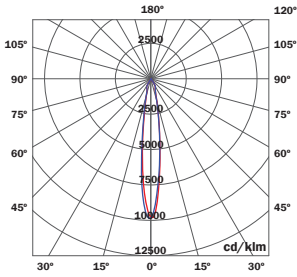


H (m)	D (m)	Max Lux	Med Lux
1	0,66	3788	2147
2	1.33	852	504
3	2	365	219
4	2.67	203	123
5	3.34	128	78

# FOOD&RETAIL LIGHTING MODULE LED

## LED PEARL 20° 16W

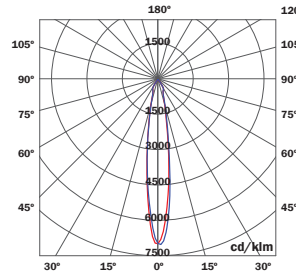
193



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2573	1458
2	1,33	579	342
3	2	248	149
4	2,67	138	83
5	3,34	87	53

## LED PEARL 20° 26W

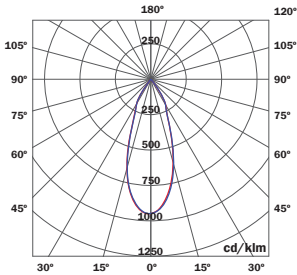
194



H (m)	D (m)	Max Lux	Med Lux
1	0,27	10854	6398
2	0,54	2447	1493
3	0,81	1051	650
4	1,08	583	363
5	1,36	369	230

## LED PEARL 56° 16W

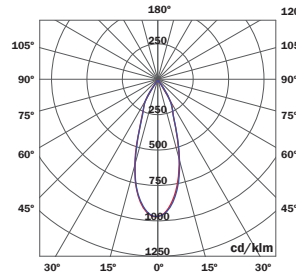
195



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2573	1458
2	1,33	579	342
3	2	248	149
4	2,67	138	83
5	3,34	87	53

## LED PEARL 56° 26W

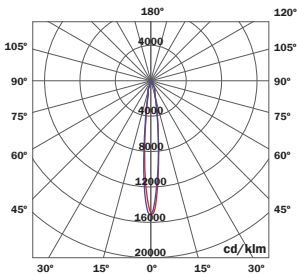
196



H (m)	D (m)	Max Lux	Med Lux
1	0,66	3573	2026
2	1,33	804	476
3	2	345	206
4	2,67	191	116
5	3,34	121	73

## LED MEAT 20° 16W

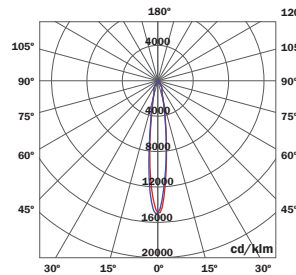
197



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5036	2968
2	0,54	1135	693
3	0,81	487	301
4	1,08	270	169
5	1,36	171	107

## LED MEAT 20° 22W

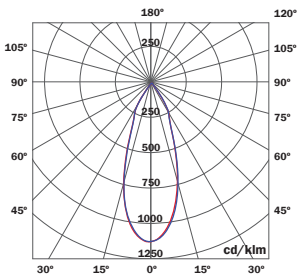
198



H (m)	D (m)	Max Lux	Med Lux
1	0,27	6534	3851
2	0,54	1473	899
3	0,81	632	391
4	1,08	351	219
5	1,36	222	139

## LED MEAT 56° 16W

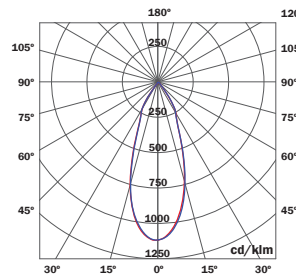
199



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1658	940
2	1,33	373	221
3	2	160	96
4	2,67	89	54
5	3,34	56	34

## LED MEAT 56° 22W

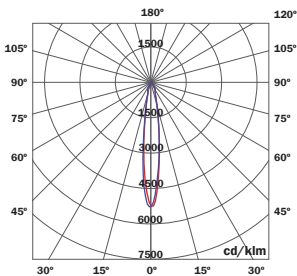
200



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2151	1219
2	1,33	484	286
3	2	208	124
4	2,67	115	70
5	3,34	73	44

## LED FRUIT 20° 16W

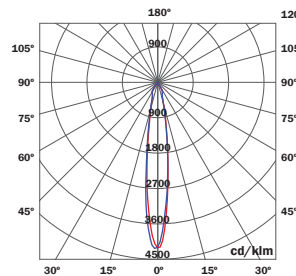
201



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5535	3263
2	0,54	1248	761
3	0,81	536	331
4	1,08	297	185
5	1,36	188	117

## LED FRUIT 20° 22W

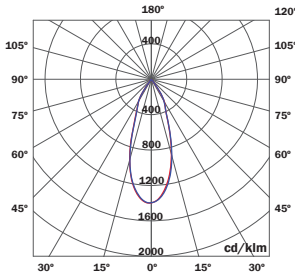
202



H (m)	D (m)	Max Lux	Med Lux
1	0,27	7207	4248
2	0,54	1625	991
3	0,81	698	431
4	1,08	387	241
5	1,36	245	153

**LED FRUIT 56° 16W**

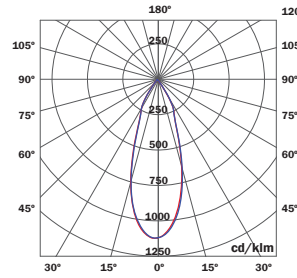
203



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1822	1033
2	1,33	410	243
3	2	176	105
4	2,67	98	59
5	3,34	62	37

**LED FRUIT 56° 22W**

204

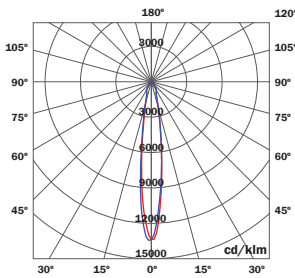


H (m)	D (m)	Max Lux	Med Lux
1	0,66	2373	1345
2	1,33	534	316
3	2	229	137
4	2,67	127	77
5	3,34	80	49

**FOOD&RETAIL LIGHTING MODULE LED**

**LED FISH 20° 16W**

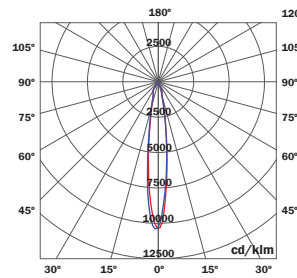
205



H (m)	D (m)	Max Lux	Med Lux
1	0,27	5774	3403
2	0,54	1302	794
3	0,81	559	346
4	1,08	310	193
5	1,36	196	122

**LED FISH 20° 22W**

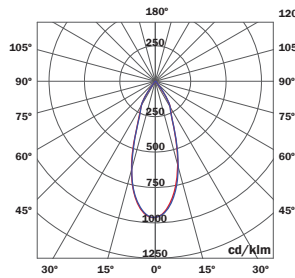
206



H (m)	D (m)	Max Lux	Med Lux
1	0,27	7533	4440
2	0,54	1698	1036
3	0,81	729	451
4	1,08	404	252
5	1,36	256	160

**LED FISH 56 16W**

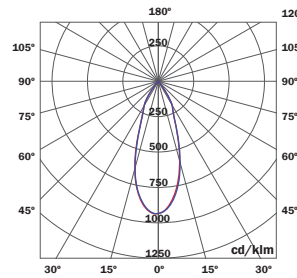
207



H (m)	D (m)	Max Lux	Med Lux
1	0,66	1901	1078
2	1,33	428	253
3	2	183	110
4	2,67	102	62
5	3,34	64	39

**LED FISH 56 22W**

208



H (m)	D (m)	Max Lux	Med Lux
1	0,66	2480	1406
2	1,33	558	330
3	2	239	143
4	2,67	133	80
5	3,34	84	51

# Technical guide **Guía técnica** **Guide technique**

## INSULATION CLASS CLASE DE AISLAMIENTO CLASSE D'ISOLEMENT

Indicates the degree of electrical protection offered by luminaires.  
Indica el grado de protección eléctrica que ofrecen las luminarias.  
Indique le degré de protection électrique qu'offrent les luminaires.



Class I: Normal insulation and earthing.  
Clase I: Aislamiento normal y toma de tierra.  
Classe I: Isolement normale et prise de terre.



Class II: Double insulation without earthing.  
Clase II: Doble aislamiento sin toma de tierra.  
Classe II: Double isolement sans prise de terre.



Class III: Lighting circuits connected to low voltage, with no other internal or external circuit operating voltages other than the abovementioned.

Clase III: Luminarias para conectar a circuitos de muy baja tensión, sin otros circuitos internos o externos que operen a otras tensiones distintas a la mencionada.

Clase III: Luminarias para conectar a circuitos de muy baja tensión, sin otros circuitos internos o externos que operen a otras tensiones distintas a la mencionada.

## PROTECTION DEGREES GRADOS DE PROTECCIÓN DEGRÉS DE PROTECTION

The luminaires are classified according to the degree of protection against dust and liquids. In these classifications, according to national and international standards (UNE 20324), the luminaires are marked by the letters IP followed by two digits.

Las luminarias se clasifican según el grado de protección contra el polvo y los líquidos. En estas clasificaciones, según las normas nacionales (UNE 20324) e internacionales, las luminarias se designan por las letras IP seguidas de dos dígitos.

Les luminaires se classent selon le degré de protection contre la poussière et les liquides. Dans ses classements, selon les normes nationales (UNE 20324) et internationales les luminaires se désignent par les lettres IP suivies de deux chiffres.



x: Protection against dust and solids (0 to 6).  
y: Protection against penetration of liquids (0 to 8).  
x: Protección contra el polvo y cuerpos sólidos (de 0 a 6).  
y: Protección contra penetración de líquidos (de 0 a 8).  
x: Protection contre la poussière et les corps solides (0 à 6).  
y: Protection contre la pénétration de liquides (0 à 8).

## X protection index Índice X de protección Index de protection X

0	Not protected. No protegido. Non protégés.
1	Protected against solid corps penetration with $\varnothing \geq 50$ mm. Protegido contra la penetración de cuerpos sólidos $\varnothing \geq 50$ mm. Protégés contre la pénétration de solides du $\varnothing \geq 50$ mm.
2	Protected against solid corps penetration with $\varnothing \geq 12$ mm. Protegido contra la penetración de cuerpos sólidos $\varnothing \geq 12$ mm. Protégés contre la pénétration de solides du $\varnothing \geq 12$ mm.
3	Protected against solid corps penetration with $\varnothing \geq 2,5$ mm. Protegido contra la penetración de cuerpos sólidos $\varnothing \geq 2,5$ mm. Protégés contre la pénétration de solides du $\varnothing \geq 2,5$ mm.
4	Protected against solid corps penetration with $\varnothing \geq 1$ mm. Protegido contra la penetración de cuerpos sólidos $\varnothing \geq 1$ mm. Protégés contre la pénétration de solides du $\varnothing \geq 1$ mm.
5	Protected against dust. Protegido contra el polvo. Protégé contre la poussière.
6	Totally protected against dust. Totalmente protegido contra el polvo. Totalement protégé contre la poussière.

## Y protection index Índice Y de protección Index de protection Y

0	Not protected. No protegido. Non protégés.
1	Protected against vertically falling of water drops. Protegido contra la caída vertical de gotas de agua. Protégé contre les gouttes d'eau tombant verticalement.
2	Protected against rain at an angle max. 15° on the vertical. Protegido contra la lluvia con un ángulo máx. de 15° sobre la vertical. Protégés contre la pluie à un angle max. 15° sur la verticale.
3	Protected against rain at an angle max. 60° on the vertical. Protegido contra la lluvia con un ángulo máx. de 60° sobre la vertical. Protégés contre la pluie à un angle max. 60° sur la verticale.
4	Splash-proof and water protection. Protegido contra salpicaduras y protección del agua. Résistant aux éclaboussures et à la protection de l'eau
5	Protected against water jets. Protegido contra chorros de agua. Protégé contre les jets d'eau.
6	Protected against powerful water jets. Protegido contra potentes chorros de agua. Protégé contre les jets d'eau puissants.
7	Temporary flood protection. Protegido contra inundaciones temporales. Protection contre les inondations temporaires.
8	Protected from prolonged immersion.   Protegido contra inmersiones prolongadas.   Protégé contre l'immersion prolongée.

## SPECIAL SYMBOLS SÍMBOLOS PARTICULARES SYMBOLES PARTICULIERS



Round cut-out size.  
Tamaño de taladro circular.  
Dimensions de perçage circulaire.



Square cut-out size.  
Tamaño de taladro cuadrado o rectangular.  
Dimensions de perçage carré ou rectangulaire.



Orientable on the horizontal axis.  
Orientabilidad sobre el eje horizontal.  
Orientabilité sur axe horizontal.



Orientable on the vertical axis.  
Orientabilidad sobre el eje vertical.  
Orientable sur axe vertical.



Oriented on the axis that forms the horizontal plane.  
Orientabilidad sobre el eje que forma el plano horizontal.  
Orientable sur axe qui forme le plan horizontal.



Compliance of incandescent wire regulatory.  
Cumple normativa hilo incandescente.  
Conforme à la norme sur fil incandescent.



Maximum thickness for luminaire anchoring point.  
Altura máx. soporte para adaptar el anclaje de la luminaria.  
Hauteur max. du panneau para adapter la fixation du luminaire.









Weight.  
Peso.  
Poids.



Dimmer.  
Dimmer.  
Dimmer.

BULBS  
LÁMPARAS  
AMPOULES




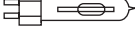
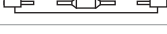


**LED LED LED**

	LED of 1 diode
	LED of 3 diodes
	LED of 6 diodes
	LED of 15 diodes
	LED Philips QR-CB51
	LED Philips QR-111

**Halogen Halógenas Halogenes**

	QR111
	QRCB-51

**Discharge Descarga Decharge**

	CDM-R111
	CDM-Tm
	HIT-TC
	HIT-T
	HIT-DE
	E40
	SDW

**Fluorescent Fluorescentes Fluo**



	TC-D
	TC-DEL
	TC-TEL
	T

**Incandescent Incandescentes Incandescentes**




	E27
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PRODUCT INSTALLATION SYSTEM  
SISTEMA DE INSTALACIÓN DEL ARTÍCULO  
SYSTÈME D'INSTALLATION


**Downlight Empotrable Encastrable**

	Wall downlight. Empotrable de pared. Encastrable au mur.
	Ceiling downlight. Empotrable de techo. Downlight.

**Suspended or Surface Suspendedo o Superficie Suspensu ou En Saillie**

	Suspended with direct lighting. Suspensión de luz directa. Suspension de la lumière directe.
	Suspended with indirect lighting. Suspensión de luz indirecta. Suspension de la lumière indirecte.
	Surface. Superficie. En saillie.

**Projectors Projectores Projecteurs**

	Track projectors. Projectores de carril. Projecteurs sur rack.
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**Wall Lamp Applique Applique**

	Wall lamp. Applique de pared. Appliques.
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**Notes Notas Notes**

Lined writing area with horizontal ruling lines.











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