# LED + ARCHITECTURAL

CATÁLOGO GENERAL
*GENERAL CATALOGUE*
**2010-2011**

LEDS·C4

# DIALux

## CONSULTORÍA DE ILUMINACIÓN – DIALUX

LEDS-C4 dispone de un departamento técnico de proyectos de iluminación destinado a ayudar y asesorar a nuestros clientes sobre cualquier consulta en materia de iluminación. Este departamento está preparado para seleccionar el tipo de iluminación según sus necesidades y la funcionalidad de la zona. Asimismo, puede asesorarle sobre la mejor distribución de la intensidad de la luz.
Además, LEDS-C4 ofrece a sus clientes la posibilidad de trabajar con DIALux, el software líder en planificación de iluminación, que utilizan más de 30.000 proyectistas y lighting designers de todo el mundo.

## LIGHTING CONSULTANCY – DIALUX

LEDS-C4 has a technical department for lighting projects, with the aim to help and advise our clients about any questions they may have about lighting. This department is equipped to select the type of lighting according to your needs and the functionality of the area. It can also advise you on the best distribution of the light intensity.
LEDS-C4 also offers its clients the possibility of working with DIALux, the leading software in lighting planning, with more than 30,000 draftspeople and lighting designers from all over the world.

## LE CONSEIL EN ILUMINATION – DIALUX

LEDS-C4 dispose d'un département technique de projets d'illumination destiné à aider et conseiller nos clients en matière d'illumination. Ce département est capable de choisir, avec vous, le meilleur type d'éclairage en fonction des vos besoins et des fonctionnalités de la zone en question. Ainsi, nous pouvons vous conseiller sur la meilleure distribution et intensité de la lumière.
De plus, LEDS-C4 offre à ses clients la possibilité de travailler avec DIALux, le logiciel leader en études et simulations d'éclairage, utilisé par plus de 30.000 designers et concepteurs lumière du monde entier.

## CONSULENZA DI ILLUMINAZIONE – DIALUX

LEDS-C4 dispone di un reparto tecnico di progetti di illuminazione destinato ad aiutare e consigliare i nostri clienti per qualsiasi problema in fatto di illuminazione. Questo reparto è preparato per selezionare il tipo di illuminazione a seconda delle necessità del cliente e la funzionalità della zona. Al tempo stesso, il cliente potrà essere consigliato in quanto alla distribuzione ottimale dell'intensità luminosa.
Inoltre, LEDS-C4 offre ai suoi clienti la possibilità di lavorare con DIALux, il software leader in pianificazione di illuminazione, utilizzato da oltre 30.000 progettisti e lighting designer di tutto il mondo.

## ABTEILUNG FÜR BELEUCHTUNGSBERATUNG – DIALUX

LEDS-C4 stellt den Kunden eine Abteilung zur technischen Beratung für Beleuchtungsprojekte zur Verfügung, die bezüglich jeder Angelegenheit im Zusammenhang mit der Beleuchtung Rat und Auskunft erteilt. Diese Abteilung ist Ihnen bei der Auswahl der Beleuchtungsart behilflich, die sich am besten an Ihre Bedürfnisse anpasst und die höchste Funktionalität im jeweiligen Einsatzbereich bietet. Darüber hinaus kann Sie diese Abteilung bezüglich der günstigsten räumlichen Lichtstärkeverteilung beraten.
LEDS-C4 bietet den Kunden überdies die Möglichkeit, mit DIALux zu arbeiten, der im Bereich der Beleuchtungsplanung marktführenden Software, die von über 30.000 Projekttechnikern und Beleuchtungsdesignern der ganzen Welt benutzt wird.

## CONSULTORIA DE ILUMINAÇÃO – DIALUX

A LEDS-C4 dispõe de um departamento técnico de projectos de iluminação destinado a ajudar e a prestar assessoria aos nossos clientes para qualquer consulta em matéria de iluminação. Este departamento está preparado para seleccionar o tipo de iluminação de acordo com as suas necessidades e a funcionalidade da zona. De igual modo, pode prestar-lhe assessoria para a melhor distribuição da intensidade da luz.
Além disso, a LEDS-C4 oferece aos seus clientes a possibilidade de trabalharem com o DIALux, o software líder em planificação de iluminação, que é utilizado por mais de 30.000 projectistas e lighting designers de todo o mundo.

LEDS·C4

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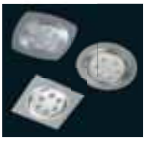
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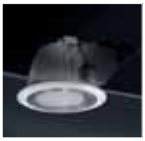
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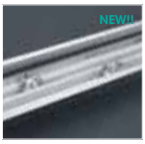

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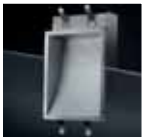

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## LUMINARIAS
## LEDS-C4 POR LA SOSTENIBILIDAD

El modelo de gestión de LEDS-C4 ha sido diseñado para que la actividad de la empresa sólo tenga repercusiones positivas sobre su entorno, tanto a nivel social como medioambiental.
En este sentido, LEDS-C4 garantiza que el diseño de todas las luminarias que aparecen en sus catálogos cumplen como mínimo con 4 de los siguientes requisitos por la sostenibilidad (C4 = COMPROMISO 4):

- Ofrecen una alta eficiencia energética
- Utilizan fuentes de luz energéticamente eficientes
- Controlan las emisiones de luz hacia el hemisferio superior (evitando así la contaminación lumínica)
- Incorporan mecanismos de regulación de la intensidad de la luz
- Favorecen la utilización de lámparas con bajo o nulo contenido de mercurio
- Fabricadas de forma que pueden ser desmontadas fácilmente al final de su vida útil
- Fabricadas con materiales reciclables o de larga durabilidad en el tiempo

## LEDS-C4 SUSTAINABILITY

LEDS-C4 management model has been designed so that the company's activity will only have positive effects on both its social and natural environment.
Thus, LEDS-C4 warrants that all luminaries design displayed in its catalogues fulfil at least 4 requirements for sustainability (C4 = COMMITMENT 4):

- They provide high energetic efficiency,
- The use light energetically efficient sources,
- They control light emissions towards the upper hemisphere (in order to avoid light pollution)
- They integrate regulation mechanisms for light intensity
- They match the use of lamps with a low or nil mercury content
- They are manufactured in such a way that they can be easily dissembled at the end of their lifespan
- They are manufactured by means of recyclable material or durable in time

## LEDS-C4 POUR LA DURABILITÉ

Le modèle de gestion de LEDS-C4 a été conçu pour que l'activité de l'entreprise n'ait que des répercussions positives sur son environnement, tant au niveau social qu'environnemental.
Dans cette optique, LEDS-C4 garantit que la conception de tous les luminaires figurant dans ses catalogues remplit au moins 4 des conditions requises ci-dessous en termes de durabilité:

- Ils offrent une efficience énergétique élevée.
- Ils utilisent des sources de lumière énergétiquement efficientes.
- Ils contrôlent les émissions de lumière vers l'hémisphère supérieur (évitant ainsi la pollution lumineuse).
- Ils intègrent des mécanismes de régulation de l'intensité de la lumière.
- Ils favorisent l'utilisation de lampes à contenu faible ou nul de mercure.
- Ils sont fabriqués de façon à faciliter leur démontage à la fin de leur vie utile.
- Ils sont fabriqués avec des matériaux recyclables ou à forte durabilité temporelle.

## LEDS-C4 FÜR UMWELTVERTRÄGLICHKEIT

Das Geschäftsmodell von LEDS-C4 wurde so konzipiert, dass die Aktivitäten des Unternehmens ausschließlich positive Auswirkungen auf seine Umgebung haben, sowohl in Bezug auf das soziale Umfeld als auch auf die Umwelt.
Im Rahmen seiner Unternehmensphilosophie garantiert LEDS-C4, dass das Design aller Leuchtkörper seiner Produktpalette mindestens 4 der folgenden Nachhaltigkeitsprämissen erfüllt:

- Hohe Energieeffizienz
- Verwendung von energieeffizienten Lichtquellen
- Steuerung der Lichtemissionen in Richtung der oberen Hemisphäre (zur Vermeidung von Lichtverschmutzung)
- Vorrichtungen zur Regulierung der Lichtintensität
- bevorzugte Verwendung von Lampen mit geringem oder keinem Quecksilbergehalt
- konstruiert, um sich am Ende ihrer Nutzungsdauer leicht ausbauen zu lassen
- hergestellt aus leicht wiederverwertbaren oder lange haltbaren Materialien

## LEDS-C4 PER LA SOSTENIBILITÀ

Il sistema di gestione della LEDS-C4 è strutturato in modo che l'attività dell'azienda abbia esclusivamente ripercussioni positive sull'ambiente, SIA a livello sociale che ambientale.
In questo senso, LEDS-C4 garantisce che il design di tutte le lampade che compaiono nei propri cataloghi rispettano almeno 4 dei seguenti requisiti per la sostenibilità dell'ambiente:

- Offrono un'alta efficacia energetica
- Utilizzano fonti di luce energicamente efficienti
- Controllano le emissioni di luce fino all'emisfero superiore (evitando così la contaminazione luminosa)
- Contengono meccanismi di regolazione dell'intensità della luce
- Favoriscono l'utilizzazione di lampade con un contenuto di mercurio basso o inesistente
- Sono fabbricate in maniera da poter essere smontate facilmente al termine della loro vita utile
- Sono fabbricate con materiali riciclabili o di lunga durata nel tempo.

## LEDS-C4 PELA SUSTENTABILIDADE

O modelo de gestão da LEDS-C4 foi desenvolvido de forma a que a actividade da empresa só tenha repercussões positivas sobre a sua envolvente, tanto a nível social como ambiental.
Neste sentido, a LEDS-C4, garante que todas as luminárias que surgem nos seus catálogos, cumpram no mínimo com 4 dos seguintes requisitos pela sustentabilidade:

- Oferecem uma alta eficiência energética;
- Utilizam fontes de luz energeticamente eficientes;
- Controlam as emissões de luz até ao hemisfério superior (evitando assim a poluição luminosa);
- Incorporam mecanismos de regulação da intensidade da luz;
- Favorecem a utilização das lâmpadas com baixo ou nulo conteúdo de mercúrio;
- Fabricadas de forma a que possam ser desmontadas facilmente no final da sua vida útil;
- Fabricadas com materiais recicláveis ou de larga durabilidade no tempo;

## CONCEPTOS BÁSICOS DE LA ILUMINACIÓN

Flujo luminoso $\phi$
Es la potencia luminosa de una lámpara o cantidad de luz emitida por la misma. Se mide en lumen (lm)

Intensidad luminosa I
Es el flujo emitido por unidad de ángulo sólido en una dirección determinada. Se expresa en candela (cd)

Iluminancia E
Es la relación entre el flujo luminoso y el área de la superficie a la que llega la luz. La unidad de medida es el lux ($lx = lm/m^2$)

Luminancia L
Es la intensidad luminosa por unidad de superficie emitida o reflejada por dicha superficie en la dirección del ojo. Se mide en candela por unidad de superficie ($cd/m^2$).
La luminancia es el concepto más cercano a la percepción visual.

Eficacia luminosa $E_{fl}$
También llamado rendimiento, se define como la relación entre el flujo luminoso emitido por la lámpara y la potencia consumida por la misma y se mide en lumen por vatio (lm/W)

Factor de reflexión $\rho$
Define el porcentaje del flujo luminoso que incide en una superficie y es reflejado por la misma.
El valor de la luminancia (L) se obtiene al multiplicar la iluminancia (E) por el factor (o grado) de reflexión ($\rho$) de las superficies iluminadas. En el caso de superficies perfectamente difusas: $L = \rho.E/\pi$.
Por tanto, los colores más oscuros obligan a una superior iluminancia para obtener la misma luminancia y ello supone un mayor consumo eléctrico, es decir, una eficiencia energética (VEE) inferior.

NIVEL DE ILUMINACIÓN
Algunos ejemplos de los niveles de iluminación (lx) recomendados para la correcta ejecución de las tareas a desarrollar en cada local:

## BASIC LIGHTING CONCEPTS

*Luminous flux $\phi$*
*Indicates the quantity of light the lamp emits in all directions. It's measured in lumen (lm)*

*Luminous intensity I*
*Indicates the amount of luminous flux emitted per angle unit in to a certain direction. It's measured in candela (cd).*

*Illuminance E*
*Indicates the ratio between the luminous flux and the surface area where the light arrives. It's measured in lux ($lx = lm/m^2$).*

*Luminance L*
*Indicates the luminous intensity, emitted or reflected in to the eye direction, per surface unit ($cd/m^2$).*
*Luminance is closest concept of visual perception.*

*Luminous efficacy $E_{fl}$*
*Indicates the lamp performance or the amount of flux emitted per electrical power consumption on the lamp circuit (lm/W).*
*The higher this index, the better the lamp transforms electrical power into light flux emission.*

*Reflection factor $\rho$*
*Indicates the ratio (%) between the total luminous flux falling on a certain surface and the amount reflected by the same surface.*
*The darker surfaces have much lower reflection factors which demands higher illuminances to obtain the same luminance or, in other words, to obtain the same luminance on a dark surface a higher power consumption is needed.*

*LIGHTING LEVEL*
*Some examples of recommended levels (lx) for the adequate execution of certain tasks in different environments:*

NIVELES DE ILUMINANCIA RECOMENDADOS (lx) / *RECOMMENDED ILLUMINANCE LEVELS (lx)*

| Industrias / *Industries* | |
|---|---|
| Zonas generales / *General zones* | 300 |
| Procesos automatizados / *Automated processes* | 200 |
| Laboratorios / *Laboratories* | 500 |
| Manufacturas / *Assembly-shops* | 500 |
| Inspección / *Inspection areas* | 750 |
| Comprobación de colores / *Colour inspection* | 1000 |

| Hoteles / *Hotels* | |
|---|---|
| Vestíbulos de entrada / *Entrance halls* | 300 |
| Comedores / *Restaurants* | 200 |
| Dormitorios, baños / *Rooms* | 150 |
| General / *Corridors* | 100 |
| Local / *Reception area* | 300 |

| Oficinas / *Offices* | |
|---|---|
| Despachos / *Cell office* | 500 |
| Oficinas generales / *Open space* | 750 |
| Salas de delineación / *Drawing room* | 750 |
| Salas de reunión / *Meeting room* | 500 |

| Escuelas / *Schools* | |
|---|---|
| Salas de clase / *Classroom* | 300 |
| Laboratorios / *Laboratory* | 500 |
| Bibliotecas / *Library* | 500 |

| Tiendas / *Shops* | |
|---|---|
| Tiendas tradicionales / *Traditional shops* | 300 |
| Supermercados / *Supermarkets* | 500 |
| Hipermercados / *Hipermarkets* | 750 |
| Salones de muestras / *Show-rooms* | 500 |

## LUMINARIAS

Las luminarias son aparatos que sirven para la distribución, el filtrado o la transformación de la luz emitida por las lámparas, incluidos los componentes necesarios para la fijación, la protección y el funcionamiento de dichas lámparas.

Para la descripción de una luminaria se utilizan frecuentemente los lugares de montaje o de ubicación – empotrables, adosables, suspendidas, apliques de pared, etc. – o el tipo de distribución del haz de luz – downlights, asimétricos, orientables, etc.
En este catálogo, encontraremos ambas descripciones para subdividir las familias de productos.

**Clase de distribución luminosa**
El tipo de luminaria viene determinado por su clase fotométrica o distribución espacial de la intensidad luminosa.
Para la iluminación general se consideran convenientes las distribuciones de luz extensivas y/o difusas, mientras que para la iluminación de acento se estiman adecuadas las distribuciones intensivas orientables. Para la iluminación perimetral de estanterías y de expositores se sopesa recomendable las distribuciones asimétricas tipo bañadores de pared.
En función del tipo de distribución luminosa del haz con que se ilumina el objeto, se obtienen resultados muy diferentes.

**Rendimiento**
El rendimiento de una luminaria (η) se define como la relación entre el flujo luminoso total emitido por la luminaria y la suma de los flujos luminosos de las lámparas individuales instaladas en su interior.
El rendimiento de una luminaria depende fundamentalmente del tipo de fuente de luz, del tipo y calidad del sistema óptico y de la calidad de los materiales utilizados en su construcción.

**Factor de utilización**
Se define el factor de utilización (Fu) como la relación entre el flujo útil que incide sobre el plano de trabajo y el flujo emitido por la totalidad de las lámparas instaladas en la luminaria.
El factor de utilización es función de los siguientes parámetros:
- Características geométricas del local (K)
- Rendimiento de la luminaria (η)
- Clase fotométrica de la luminaria
- Modo de instalación de las luminarias en el local (implatación)
- Factores de reflexión de las paredes, techo, suelo y plano útil iluminado

**Criterios de selección**
La calidad luminotécnica y de los materiales, la rentabilidad, la seguridad y la comodidad del montaje (facilidad de instalación) son aspectos fundamentales para el diseño y fabricación de luminarias. En nuestra empresa damos especial atención a todos estos factores a la hora de desarrollar los productos que componen este catálogo.
Por otro lado, la estética de la luminaria y su aspecto deberán ir en armonía con los aspectos funcionales de la misma. Por esta razón, trabajamos con los mejores diseñadores para ofrecer productos que puedan ser integrados en los proyectos de más prestigio no sólo por sus calidades funcionales sino también por su cuidado aspecto y diseño innovador.
La marca CE documenta la seguridad en el funcionamiento y la conformidad con las normas de las luminarias de calidad.

## LUMINAIRES

*Luminaires are apparatus used for distributing, filtering or transforming the light given by the lamps and which include the components needed to fix, protect and connect the lamps to the supply circuit.*

*To describe or define the type of luminaire we can use either its way of mounting – recessed mounted, surface mounted, pendant, wall mounted, etc.- or the type of beam distribution –downlight, uplight, asymmetric, directional, etc.*
*In this catalogue, both descriptions are used to classify the product families/ ranges.*

***Luminous intensity distribution***
*The type of luminaire can be determined by its photometric class or spatial distribution of the luminous intensity.*
*Extensive and/or diffuse light distributions are convenient for general lighting, while directional intensive distributions are adequate for accent lighting. For perimeter lighting of shelves and expositors, asymmetrical distributions like wall-washers are recommended.*
*According to the beam used to light the object, different results are achieved.*

*Light output ratio*
*The luminaire efficiency (η) is defined as the relation between the total luminous flux emitted by the luminaire and the sum of light fluxes from individual lamps installed inside. Light output ratio mainly depends on the light source, the optical system of the luminaire and the quality of the materials used to manufacture it.*

***Utilisation factor***
*The utilisation factor ($F_u$) is defined as the relation between the utilised flux on the working surface, and the flux emitted by lamps installed in the luminaire.*
*The utilisation factor is a function of the following parameters:*
- *Room index K (geometrical characteristics of the room)*
- *Light output ratio (η)*
- *Light distribution of the luminaire (photometrical class)*
- *Arrangement of the luminaires in the room*
- *Reflectance of walls, ceiling, floor and working plane*

***Selection criteria***
*Light-technical and material quality, profitability, safety and ease of installation are key factors for the design and manufacturing of luminaires. Within our Company, special attention is paid to all the above-mentioned factors to develop the products included in this catalogue.*
*On the other hand, aesthetics and aspect finishings must be in harmony with the functional features. For this reason, we work with the best designers to offer products which can be integrated in the most prestigious projects, not only for their functional qualities but also for their careful look and innovative design.*
*CE mark assures the electrical safety and the conformity with the European luminaire's quality norms.*

## CLASIFICACIÓN SEGÚN LA PROTECCIÓN CONTRA CHOQUES ELÉCTRICOS
## *CLASSIFICATION ACCORDING TO THE TYPE OF ELECTRICAL PROTECTION*

| Clase I | Clase II | Clase III |
|---|---|---|
| La protección contra choques eléctricos incluye medidas de seguridad basadas en la conexión de las partes conductoras accesibles a un conductor de seguridad puesto a tierra.<br><br>*Protection against electrical shocks includes other measures based on the connection of accessible conductive parts to an earthing conductor.* | La protección contra choques eléctricos incluye medidas de seguridad basadas en el doble aislamiento o el aislamiento reforzado. Excluye toma de tierra.<br><br>*Protection against electrical shocks includes other measures based on the double reinforced insulation. Excludes earthing.* | La protección contra choques eléctricos se basa en una alimentación de muy baja tensión, a través de un transformador de seguridad, sin generarse tensiones superiores a ésta.<br><br>*Protection against electrical shocks includes other measures based on a very low voltage through a security transformer, without generating higher voltages.* |

**Otras clasificaciones importantes para la correcta selección de las luminarias y su aplicación son:**
***Other classifications for the correct selection of luminaires and their application are the following:***

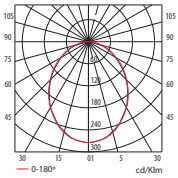
CLASIFICACIÓN IP
*IP CLASSIFICATION*

**IP XX**

| 1ª cifra<br>*1ª figure* | Grado de protección contra la penetración de partículas sólidas<br>*Protection degree against the ingress of solids and dust* |
|---|---|
| IP 0X | Ninguna protección<br>*No protection* |
| IP 1X | Sólidos de tamaño superior a 50 mm<br>*Solids over 50 mm* |
| IP 2X | Sólidos de tamaño superior a 12 mm<br>*Solids over 12 mm* |
| IP 3X | Sólidos de tamaño superior a 2,5 mm<br>*Solids over 2.5 mm* |
| IP 4X | Sólidos de tamaño superior a 1 mm<br>*Solids over 1 mm* |
| IP 5X | Protección contra el polvo<br>*Protection against dust* |
| IP 6X | Estanca el polvo<br>*Dust-tight* |

| 2ª cifra<br>2ª figure | Grado de protección contra la penetración de líquidos<br>*Protection degree of sealing against the penetration of water* |
|---|---|
| IP X0 | Ninguna protección<br>*No protection* |
| IP X1 | Caída de agua vertical<br>*Dripping water* |
| IP X2 | Caída de agua con inclinación máx. 15º<br>*Dripping water when tilted up to 15º* |
| IP X3 | Protegida contra lluvia (inclinación máx. 60º)<br>*Spraying water* |
| IP X4 | Salpicaduras de agua<br>*Water splashing* |
| IP X5 | Chorros de agua<br>*Water jets* |
| IP X6 | Chorros fuertes de agua<br>*Heavy seas* |
| IP X7 | Estanca a la inmersión<br>*Effects of immersion* |
| IP X8 | Estanca a la inmersión con presión<br>*Submersion* |






### CURVA DE DISTRIBUCIÓN LUMINOSA

Este diagrama (generalmente polar) representa las direcciones en las que emite una luminaria y con qué intensidad. Se toma como referencia un flujo de 1000 lumen por lo que los valores de la gráfica se facilitan en cd/Klm.
En este catálogo, facilitamos las curvas de las versiones más significativas de cada gama donde sólo se representa la curva del plano longitudinal (C0º-180º).
En nuestro software de cálculo se podrán consultar también los planos transversal (C90º-270º) y los intermedios (C45º-225º y C135º-315º).

### DIAGRAMA DE FLUJO LUMINOSO

Este diagrama indica la iluminancia media (Emed) medida en lux, a diferentes alturas respecto a la luminaria y el diámetro aproximado que dicho haz de luz proyecta a estas distancias.

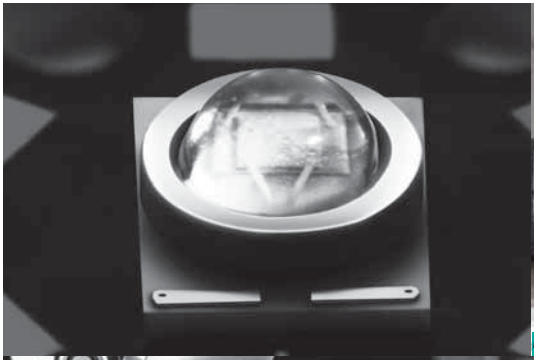
| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 2.18 | 77 |
| 2 | 4.37 | 19 |
| 3 | 6.55 | 9 |
| 4 | 8.74 | 5 |
| 5 | 10.92 | 3 |

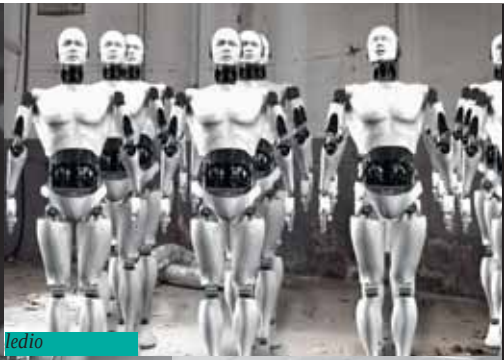
### *LUMINOUS DISTRIBUTION CURVES*

*This diagram (generally polar) represents the directions in which a luminaire emits, and its intensity.*
*A 1000-lumen flux is taken as reference, so the values on the graphic are given in cd/Klm.*
*In this catalogue, we show the curves for the most representative versions of each range, in which only the longitudinal plan (C0º-180º) is represented .*
*The transversal (C90º-270º) and intermediate (C45º-225º and C135º-315º) plans can be consulted in our calculation software.*

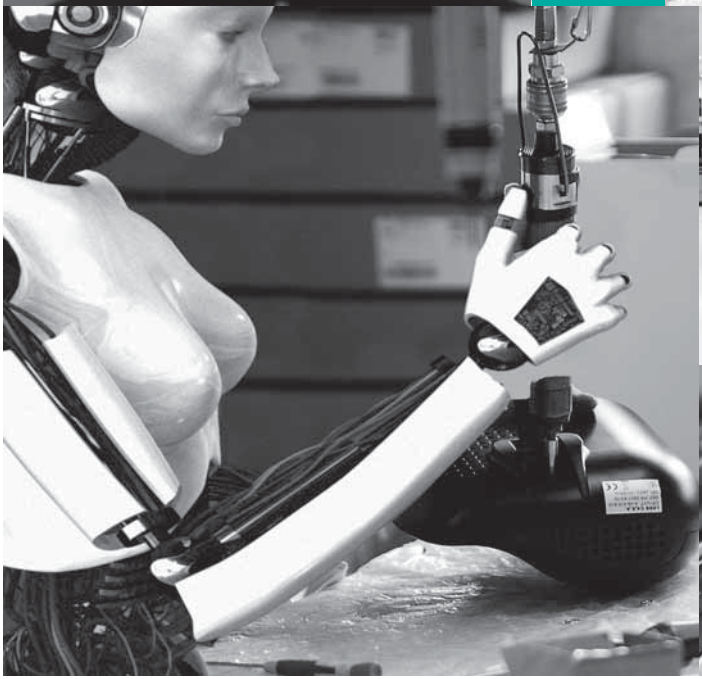
### *LUMINOUS FLUX DIAGRAM*

*This diagram indicates the average ($E_{av}$) illuminance, measured in lux, at different heights from the luminaire and the approximate diameter of the beam projected at those distances.*





ledio



# / LED /

# EL LED DE LEDS-C4 Y SUS VENTAJAS

1.- Larga vida útil.

2.- Menor mantenimiento.

3.- Alta eficiencia energética.

4.- Extensa gama de colores por naturaleza.

5.- Encendido instantáneo.

6.- Robustez extrema.

7.- Luz directa.

8.- Ecológico.

9.- Ausencia de infrarrojos y ultravioletas.

# *THE LEDS-C4 LED AND ITS ADVANTAGES*

*1.-Long useful life.*

*2.-Low maintenance.*

*3.-High energy efficiency.*

*4.-Extensive range of colours by condition.*

*5.-Instantaneous switch-on.*

*6.-Extreme robustness.*

*7.-Direct Light.*

*8.-Ecological.*

*9.-No infrared or ultraviolet rays.*

## 1.- Larga vida útil.

Los led son básicamente diodos que emiten luz cuando la corriente continua pasa a través de los semiconductores. Se necesita un controlador de equipo para alimentar y controlar con precisión la corriente que pasa a través del led.

Para asegurar la larga vida del led, es muy importante el correcto estudio y diseño de la disipación del calor producido por el diodo dentro la luminaria.

Los led, correctamente instalados, pueden llegar a más de 50.000h de vida conservando más del 70% del flujo lumínico original.

## *1.-Long useful life.*

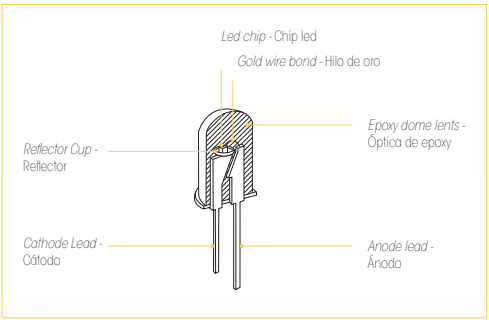
*Led's are basically diodes that emit light when the continuous current passes across the semiconductors. A driver is needed to supply power and to control the current that passes across them accurately.*

*To assure the long life of led's, correct heat dissipation study and design is very important in order to control the heat produced by the diode inside the light.*

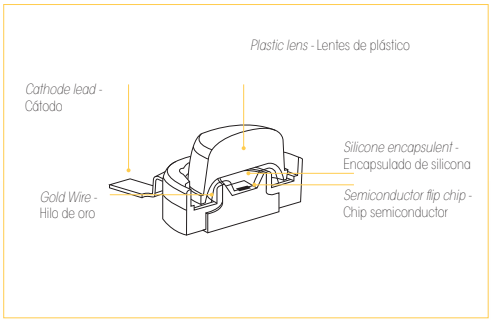
*Once correctly installed, led's can last for longer than 50,000 hours, conserving more than 70 % of the original light output*



Estructura de un LED de 5 mm.
*Structure of a 5mm type LED.*




*Estructura de un LED de alta potencia.*
*Structure of a high-brightness LED.*




Nuestro objetivo es asegurar que todas las luminarias led de LEDS-C4 mantengan un nivel de calidad y fiabilidad alto, por eso se han diseñado todas las luminarias con leds de primeras marcas mundiales y con el objetivo de 50.000h de funcionamiento.

Our objective is to ensure that all LED lights from Leds-C4 maintain a high level of quality and reliability. This is why they are designed using the leading worldwide brands, with a target of 50,000 hours of operation.

## 2.- Menor mantenimiento comparado con las fuentes de luz convencionales

Otra de las ventajas del led es que no se funde sino que sufre una degradación del flujo luminoso. Se considera que la vida útil del led termina en el momento en que se reduce su luminosidad más de un 70% de su valor inicial.

Las luminarias led duran 10 veces más que las fuentes de luz convencionales por lo que no necesitamos cambiarlas tan frecuentemente. Se elimina costes de mantenimiento periódicos, por lo que se mejora la rentabilidad de las luminarias.

Los led, correctamente instalados, pueden llegar a más de 50.000h de vida conservando más del 70% del flujo lumínico original.

## *2.-Low maintenance compared to traditional light sources*

*Another advantage of led's is that it does not blow; rather, it undergoes a gradual deterioration of the light output. It is considered that the useful life ends when its luminosity is reduced by more than 70 % of its initial value.*

*Led lights last 10 times longer than traditional light sources, meaning that we do not need to replace them as often. Regular maintenance costs are reduced and the profitability of the lights is improved.*

**COMPARATIVA DEL TIEMPO DE VIDA / *LIFE TIME COMPARISON***

| | Abreviatura *Abbreviation* | Portalámparas *Lampholder* | Horas de vida *Life hours* | Vs. LED * |
|---|---|---|---|---|
| | LED | | 50,000 | 1 |
| | QR-LP 111 | G53 | 3,000 | 17 |
| | QR-CBC51 | GU 5,3 | 4,000 | 13 |
| | QT-12 ax | GU 6,35 | 4,000 | 13 |
| | QT-DE 12 | R7s | 2,000 | 25 |
| | TC-DEL | G24q-1 | 10,000 | 5 |
| | INCANDESCENT | E27 | 1,000 | 50 |

* Nº de recambios necesarios para igualar a la vida del led.
*Lamp replacements needed to equal the led life.*

## 3.- Alta eficiencia energética.

Debido a la extraordinaria y continuada evolución de los led hacia la eficiencia energética, no se puede comparar el rendimiento lumínico del led con su consumo.

Por este motivo no se mide su eficiencia con vatios, sino con los ratios de Lúmenes / vatio o lúmenes / led.

## *3.-High energy efficiency.*

*Due to its extraordinary and continued progress towards energy efficiency, it is not possible to compare the light performance of the led with its power consumption.*

*That is why its efficiency is not measured in watts, but rather using the lumen / watt or lumen / led ratio*

**EFICACIA DE LA LUZ / *LIGHT EFFICIENCY***

| | Eficacia media lm / watt<br>Average efficiency Lm / watt |
|---|---|
| Incandescente - *incandescence* | 10 - 18 |
| Halógena - *halogen* | 15 - 20 |
| Fluorescente compacto CFL (con balastro) - *Compact fluorescent* | 35 - 60 |
| Fluorescente lineal (con balastro) - *Linear fluorescent* | 50 - 100 |
| Halogenuros metálicos - *Metal halogen* | 50 - 90 |
| Led frío - *Cold Led* – Cree | **74 - 139** |
| Led cálido - *Warm Led* - Cree | **88 - 110** |

LEDS-C4 utiliza las más prestigiosas marcas de led para asegurar la alta eficiencia energética de las luminarias.

CREE es una empresa americana, líder en innovación en el mercado de los leds. Su patentada tecnología es reconocida como una de las mejores y más eficientes del mundo.

NICHIA, es una corporación japonesa, inventores de la técnica para conseguir el led blanco frío y cálido. Sus leds son reconocidos mundialmente por su alta fiabilidad y luminosidad.

*LEDS-C4 uses the most prestigious led brands to assure the high energy efficiency of the lights.*

*CREE is an American company, and an innovation leader in the LED market. Their patented technology is recognised as one of the best and most efficient in the world.*

*NICHIA is a Japanese corporation, and the inventors of the technique for achieving the cool and warm white LED. Their LEDs are recognised worldwide for their high reliability and luminosity.*

## EL LED Y SUS VENTAJAS

Las luminarias Led de LEDS-C4 están preparadas para trabajar a distintas intensidades eléctricas según las necesidades de nuestro cliente y características de la luminaria.

- 350mA (1w / led) aprox.

- 500mA (2w / led) aprox.

- 700mA (3w / led) aprox.

Obtenemos más eficiencia (lumen / watt) a menor intensidad eléctrica (mA)

## *THE LED AND ITS ADVANTAGES*

*The LEDS-C4 led lights are prepared to work at different electrical powers according to the needs of our clients and characteristics of the lights.*

*- 350mA (1w / led) approx.*

*- 500mA (2w / led) approx.*

*- 700mA (3w / led) approx.*

*We obtain more efficiency (lumen / watt) at lower electrical power (mA)*

## 4.- Extensa gama de colores por naturaleza.

La uniformidad del bin "tonalidades de color" blanco es uno de los retos más difíciles que tienen los fabricantes de led. Los led están disponibles en muchas tonalidades de blanco con temperaturas de color que van desde 2.700ºK hasta 8.000ºK

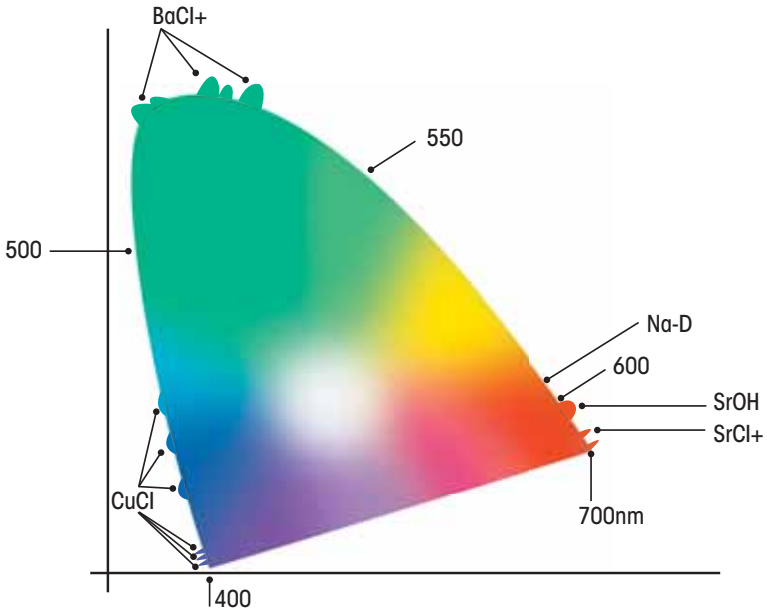
LEDS-C4 ha centrado sus esfuerzos en asegurar que el bin de las diferentes luminarias sea el más próximo posible entre ellas.

## *4.-Extensive range of colours by condition.*

*The white bin code uniformity is one of the most difficult challenges that led manufacturers have to face. Led's are available in many shades of white with colour temperatures that go from 2,700ºK to 8,000ºK*

*LEDS-C4 has focused its efforts on ensuring that the bin code of the different lights are as close as possible,*

*TABLA DE DIFERENTES BINS (COLORES)*




## 5.- Encendido instantáneo

El led tiene el encendido más rápido comparado con las otras fuentes de luz convencionales que existen en el mercado.

Siendo otra importante característica de los led, que su vida no se reduce por las repetidas acciones de encendido y apagado.

## *5.-Instantaneous switch-on*

*The led has the most rapid switch-on compared with other traditional light sources on the market.*

*Another important characteristic of the led is that its life is not shortened by the repeated action of switching on and switching off.*

## 6.- Robustez extrema

Su robustez es extraordinaria, el led es antivandálico por naturaleza; insensible a vibraciones, golpes,...

## *6.-Extrem robustness*

*Its robustness is extraordinary, led's are vandal-proof by nature; unaffected by vibrations, blows, ...*

## 7.- Luz direccional

La luz del led es totalmente direccional, por lo que no existen pérdidas lumínicas por reflexión. Esto contribuye notablemente a aumentar la eficiencia y rentabilidad de las luminarias.

## *7.-Directional light*

*Led lights are totally directional, meaning that there are no light losses due to reflection. This helps to significantly increase the efficiency and profitability of the lights,*

## 8.- Ecológico

Prácticamente la totalidad del led es reciclable. No contiene mercurio ni otros elementos perjudiciales para el medio ambiente.

Su diseño compacto reduce el volumen de la luminaria y del residuo.

Además su facilidad para ser "dimeado" nos permite reducir el consumo energético.

ENERGY SAVING

## *8.-Ecological*

*Practically all of an led is recyclable. It neither contains mercury nor other harmful elements for the environment.*

*Its compact design reduces the volume of the light itself and its waste.*

*In addition the ease with which it can be dimmed allows us to reduce energy consumption even more.*

ENERGY SAVING

## 9.- No Infrarrojos, tampoco Ultravioletas.

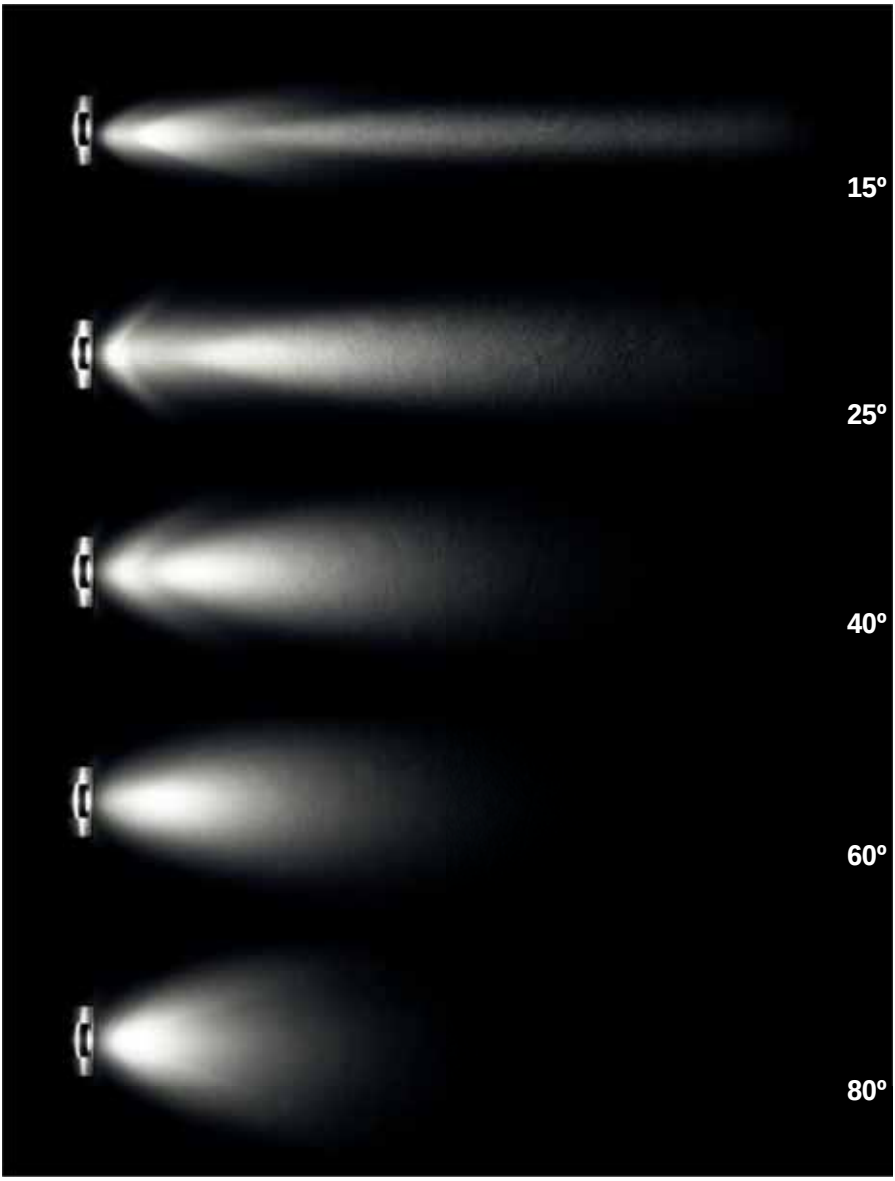
Los leds utilizados para la iluminación solamente emiten flujo en el espectro visible de la luz que el ojo humano es capaz de percibir.

Hay un elevado número de aplicaciones, por ejemplo los museos, donde el led será claramente una buena opción gracias a esta característica.

## *9.-No Infrared or Ultraviolet rays*

*The led's used for lighting only emit light flow in the visible spectrum of light that the human eye is capable of receiving.*

*There are many applications, in museums for example, where led's will clearly be a good option thanks to this characteristic.*




## DIFERENTES ÓPTICAS PARA MULTITUD DE APLICACIONES

LEDS-C4, con la determinación de ofrecer luminarias versátiles que se adapten al mayor número de aplicaciones posibles, ha preseleccionado una gama de ópticas para satisfacer diferentes necesidades.

En las luminarias específicamente marcadas en el catálogo, LEDS-C4 ofrece un kit de ópticas para que nuestros clientes puedan personalizar la iluminación a su gusto.

## *DIFFERENT LENSES FOR A MULTITUDE OF APPLICATIONS*

*LEDS-C4, with the commitment to offering versatile lights that adapt to the highest possible number of applications, has shortlisted a range of different lenses to meet different needs.*

*In certain lights specifically marked in the catalogue, LEDS-C4 offers a kit of lenses so that our clients can personalize their lighting to suit their tastes.*

Estas ópticas extras permiten adecuar la luz de las luminarias a las distintas necesidades.

*These extra lens allows the light adjustment to the different needs.*

## COMPARATIVA ENTRE LUMINARIAS HALÓGENA Y LUMINARIAS LED DE UNA MISMA INSTALACIÓN HOTELERA.

A continuación se resume el consumo eléctrico y los costes de mantenimientos de la misma instalación interna de un hotel donde las luminarias funcionan 24h los 365 días del año.

Se ha sustituido la iluminación realizada con luminarias halógenas por otra iluminación realizada con luminarias led de LEDS-C4.

El resultado es un importante ahorro energético y de mantenimiento, consiguiendo prácticamente la misma intensidad de luz (lux) en el pasillo, con el mismo número de luminarias.

## *COMPARISON BETWEEN HALOGEN LIGHTS AND LED LIGHTS FROM THE SAME HOTEL INSTALLATION.*

*Below is a summary ofthe electrical consumption and the maintenance costs from the same hotel installation where the lighting is in use 24 hours, 365 days a year.*

*The halogen lighting was replaced by other led lighting using LEDS-C4 led lights.*

*The result is a major energy and maintenance saving, obtaining practically the same intensity of light (lux) in corridors, using the same number of lights.*

| | **HALOGEN** | **LED** |
|---|---|---|
| Vattios totales de la instalación / *Total watts of the installation* | 919 W / h | 229 W / h |
| Lux medios de toda la instalación / *Average Lux of the whole installation* | >120 lx | >120 lx |
| Media Lumenes / wattio / *Average lumen / watt* | 19,99 lm / w | 79,83 lm / w |
| Número de luminarias / *Number of lights* | 20 unidades / units | 20 unidades / *units* |
| Horas de trabajo por año / *Working hours per year* | 8.760 horas / *hours* | 8.760 horas / *hours* |
| Consumo total diario 24h / *Total daily consumption, 24h* | 22.056 watt hora / día / *watt hour / day* | 5.496 watt hora / día / *watt hour / day* |
| Consumo total anual 365 días / *Total annual consumption, 365 days* | 8.050.440 watt hora / año / *watt hour / year* | 2.006.040 watt hora / año / *watt hour / year* |
| Kw / día / *Kw / day* | 22,1 Kw | 5,5 Kw |
| Kw / año / *Kw / year* | 8.050,4 Kw | 2.006,0 Kw |
| Precio Kw /h - sin IVA **/ *Price Kw/h - without VAT* ** | 0,1 € | 0,1 € |
| Consumo total diario / *Total daily consumption* | 2,2 € día / *day* | 0,5 € día / *day* |
| Consumo total anual / *Total annual consumption* | 805,0 € | 200,6 € |
| Precio medio lámpara sustitución / *Average price of lamp replacement* | 15 € | 0 € |
| Bombillas cambiadas por año / *Bulbs changed per year* | 2,92 bombillas / *bulbs* | 0 bombillas / *bulbs* |
| Coste recambios año / luminarias + mantenimiento (2€) / *Annual replacement costs/ lights + maintenance (2 €)* | 49,64 € | 0 € |
| Coste recambios instalación x año / *Installation replacement costs x year* | 992,80 € | 0 € |
| Coste total anual (consumo + recambios) / instalación / *Total annual cost ( consumption + replacements) / installation* | 1.797,8 € | 200,6 € |
| CO2 emitido a la atmósfera. * / *CO2 emitted into the atmosphere.* * | 4.025,2 Kg | 1.003,0 Kg |
| **TOTAL EUROS AHORRO / AÑO** ***TOTAL EUROS SAVED / YEAR*** | | 1.597,2 € |
| **TOTAL AHORRO DE CO2 A LA ATMOSFERA / AÑO** ***TOTAL CO2 SAVINGS TO THE ATMOSPHERE / YEAR*** | | 3.022,2 Kg |

* En España por cada KW/hora que se consume, se emiten 500 gramos de CO2.
** In Spain, for each Kw/h consumed, 500gr of CO2 is emitted into the atmosphere.*

** Precio Kw/h en España
*** Kw/h price in Spain*

Familia de downlights led de alto confort visual, ideales para iluminaciones generales; su diseño minimalista y reflector blanco facilitan su integración arquitectónica. Incorpora led XPE cálido de Cree. Versiones fija y orientable.

Family of LED downlights providing a high level of visual comfort, ideal for general lighting. Their minimalist design and white reflectors facilitate architectural integration. Installed with a warm XPE LED by Cree. Fixed and adjustable versions.

Famille d'éclairages à diodes électroluminescentes vers le bas apportant un excellent confort visuel, idéaux pour les éclairages générau; leu design minimaliste et leur réflecteur blanc assurent leur intégration dans l'architecture. Installation d'une diode électroluminescente XPE de Cree à lumière chaude. Proposés en versions fixe et orientable.

Downlight-LED-Produktfamilie mit optisch angenehmem Licht, ideal für allgemeine Beleuchtung. Durch das minimalistische Design und den weißen Reflektor wird die Integration in die Architektur erleichtert. Installation LED XPE warm von Cree. Feste und ausrichtbare Ausführung.

# Vision

equivalente a brighter as 50w Halogen

CREE Led

not incl. driver

Dimming

.IES

40º

350mA 4w

700mA 12w

nº 01-02 pag.172

pag.60

14 Blanco / White
Blanc / Weiß

N3 Gris / Grey
Gris / Grau

max. 87,4 Lm/watt

Warm W 2900K

Ø98mm

**Downlight entregado con dos cajas separadas.**
**Downlight with 2 seperate boxes included.**
**Downlight / spot encastrable remis avec deux boîtes séparées.**
**Einbau-Downlight geliefert in 2 verschiedenen Kartons.**

**Referencia completa**
**Complete reference**
**Référence complète**
**Artikel komplett**

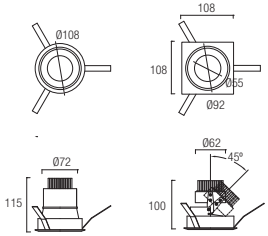
ALU GLASS IP 44

| Acabados Finishes | | Ópticas Lenses | Warm W / Cálido 2900k | | | | |
|---|---|---|---|---|---|---|---|
| ○ | ◎ | - | **90-3475-14-14** | | 90-3455-14-M3 | | 71-3457-14-00 |
| ○ | ▣ | - | **90-3476-14-14** | = | 90-3455-14-M3 | + | 71-3458-14-00 |
| ◑ | ▣ | - | **90-3476-14-N3** | | 90-3455-14-M3 | | 71-3458-N3-00 |

**Referencia completa**
**Complete reference**
**Référence complète**
**Artikel komplett**

ALU PMMA 45º IP 20

| Acabados Finishes | | Ópticas Lenses | Warm W / Cálido 2900k | | | | |
|---|---|---|---|---|---|---|---|
| ○ | ◎ | 40º | **90-3477-14-14** | | 90-3456-14-00 | | 71-3457-14-00 |
| ○ | ▣ | 40º | **90-3478-14-14** | = | 90-3456-14-00 | + | 71-3458-14-00 |
| ◑ | ▣ | 40º | **90-3478-14-N3** | | 90-3456-14-00 | | 71-3458-N3-00 |




Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0804-00-00 (1 pieza / *1 piece*)
ACT-0808-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0816-00-00 (1 a 4 piezas / *1 to 4 pieces*)

**700mA**
71-3307-00-00 (1 pieza / *1 piece*)
71-3308-00-00 (1 pieza / *1 piece*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 3 piezas / *1 to 3 pieces*)
**700mA**
71-3475-00-00 (1 a 2 piezas / *1 to 2 pieces*)

Downlight de alta eficiencia con tecnología led de última generación, cuerpo inyectado en aluminio de alta densidad y disipador de temperatura laminar.
La luminaria incluye un sistema de conexión a la red eléctrica y un controlador de equipo.
Diseño único y vanguardista, disponible en diferentes acabados, tonalidad de luz blanca, con versiones de empotrado y de superficie para satisfacer todas las necesidades.

High efficiency downlight with latest generation led technology, featuring a body made of high-density injected aluminium and laminated heat sink. The lighting includes a rapid connection system to the electrical network and a equipment controller.
It boasts a unique, cutting edge design available in different finishes, tones of white light, with fitted and surface versions to meet all needs.

Downlight de haut rendement avec technologie DEL de dernière génération. Corps en aluminium de haute densité et dissipateur thermique laminaire.
La lampe est dotée d'un système de raccord rapide au réseau électrique et d'un contrôleur.
Unique design d'avant-garde, disponible en différents finitions. Couleur lumière blanche, peut être encastré ou monté en surface pour satisfaire tous les besoins.

Downlight mit hoher Energieeffizienz durch LED-Technik der neusten Generation. Gehäuse aus hochdichtem Aluminium mit Lamellenkühler.
Zum Lieferumfang der Leuchte gehören ein System zum Schnellanschluss an das Stromnetz und ein Regler.
Einzigartiges Design in verschiedenen Ausführungen und weißen Lichtfarben verfügbar. Ein- und Aufbaumodelle für alle Bedürfnisse.

# Sound

90-3429-N3-M2
MODELO PMMA EMPOTRABLE
PMMA RECESSED MODEL
MODÈLE PMMA ENCASTRABLE
PMMA-EINBAUMODELL

RF 850º

90-3429-14-M3
MODELO EMPOTRABLE CON CRISTAL EXTRA BLANCO
EXTRA WHITE GLASS RECESSED MODEL
MODÈLE ENCASTRABLE EN VERRE EXTRA BLANC
EINBAUMODELL MIT EXTRA WEISSEM GLAS

equivalente a brighter as 1x26w CFL

NICHIA Led

ALU | GLASS EXTRA WHITE | PMMA

IP 44

220-240 VAC

Dimming | .IES | 3 years | included driver

120º

15w

nº 03-06 pag.172 | pag.60

14 Blanco / White
Blanc / Weiß

N3 Gris / Grey
Gris / Grau

M3 Cristal extra blanco
Glass extra white
Verre extra blanc
Glas extra weiß

M2 PMMA / PMMA
PMMA / PMMA

96 Lm/watt | 64 Lm/watt

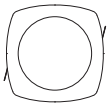
Cold W 6000K | Warm W 2900K

Disipador de temperatura laminar, integrado en la misma carcasa de la luminaria. Fabricado en aluminio de alta pureza para garantizar la correcta Tº de trabajo de las led.

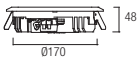
A laminated heat sink, built into the body of the lighting. Made of high quality injected aluminium. It guarantees the correct led working temperature.

Dissipateur thermique laminaire, intégré dans la structure de la lampe. En aluminium extrêmement pur pour garantir la bonne température de travail des diodes électroluminescentes.

Lamellenkühler im Gehäuse der Leuchte eingebaut. Hergestellt aus hochreinem Aluminium, gewährleistet die korrekte Betriebstemperatur der LEDs.



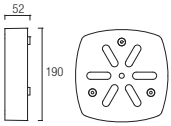

Ø170mm




| Acabados Finishes | Frontal | Warm W / Cálido 2900k | Cold W / Frío 6000k |
|---|---|---|---|
| ○ | Glass extra white | 90-3429-14-M3 | 90-3430-14-M3 |
| | PMMA | 90-3429-14-M2 | 90-3430-14-M2 |
| ● | Glass extra white | 90-3429-N3-M3 | 90-3430-N3-M3 |
| | PMMA | 90-3429-N3-M2 | 90-3430-N3-M2 |

Equipos de control (ver pág. 56-57) / Controller devices (see page 56-57)
Controleur d'equipe (voir page 56-57) / Steuergeräte (siehe seite 56-57)

71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)



Accesorios / Accessories
Accesoires / Zubehör

71-3301-14-00
Kit superficie / Surface kit.
Kit surface / Aufbau Kit

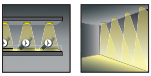
Downlight con diseño exclusivo compuesto de 3 leds que pueden conectarse a 350mA y a 700mA, con un rendimiento máximo de 9W.
Esta versión tiene las ópticas predefinidas.

A downlight featuring an exclusive design of 3 leds that can be connected to 350mA and to 700mA, with a maximum output of 9W. This version has predefined lenses.

Éclairage vers le bas au design exclusif composé de trois diodes électroluminescentes pouvant se connecter à 250 mA et à 700 mA, avec un rendement maximal de 9 W. Sur cette version, les éléments optiques sont prédéfinis.

Downlight in exklusivem Design. Bestehend aus 3 LEDs, die an 250 mA oder 700 mA angeschlossen werden können. Mit einer Maximalleistung von 9 W. Diese Ausführung hat vordefinierte Linsen.

# Delta 3



equivalente a brighter as 30w Halogen

CREE Led

ALU PMMA

IP 20

Dimming 20° 20° not incl. driver

.IES 15° 40°

350mA 700mA

3w 9w

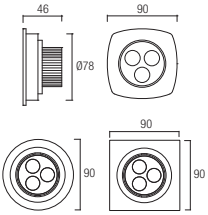
nº 07-08 pag.172 pag.60

S2-N3 Aluminio cepillado-Gris
Brushed aluminium-Grey
Aluminium brossé-Gris
Aluminium gebrüstet-Grau

93,9 Lm/watt 80,6 Lm/watt

Cold W 6000K Warm W 2900K

Ø82mm




| Acabados Finishes | | Ópticas Lenses | Warm W / Cálido 2900k | Cold W / Frío 6000k |
|---|---|---|---|---|
| | | 15º | 90-3425-S2-N3 | 90-3424-S2-N3 |
| | | 40º | 90-3426-S2-N3 | |
| | | 15º | 90-3480-S2-N3 | 90-3479-S2-N3 |
| | | 40º | 90-3481-S2-N3 | |
| | | 15º | 90-3485-S2-N3 | 90-3484-S2-N3 |
| | | 40º | 90-3486-S2-N3 | |

Disipador de temperatura tubular. Fabricado en aluminio mecanizado de alta densidad.

A tubular heat sink. Made of high density worked aluminium.

Dissipateur thermique tubulaire en aluminium usiné haute densité.

Röhrenkühler aus gefrästem hochdichtem Aluminium.

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0803-00-00 (1 pieza / *1 piece*)
ACT-0804-00-00 (1 pieza / *1 piece*)
ACT-0808-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0816-00-00 (1 a 6 piezas / *1 to 6 pieces*)

**700mA**
71-3307-00-00 (1 pieza / *1 piece*)
71-3308-00-00 (1 a 2 piezas / *1 to 2 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 4 piezas / *1 to 4 pieces*)
**700mA**
71-3475-00-00 (1 a 3 piezas / *1 to 3 pieces*)

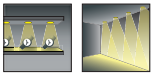
# Delta 6

Downlight con diseño exclusivo compuesto de 6 leds. Puede conectarse a 350mA y a 500mA, con un rendimiento máximo de 12W. Ópticas intercambiables para ajustarse perfectamente a las necesidades del cliente.

A downlight featuring an exclusive design of 6 leds. It can be connected to 350mA and to 500mA, with a maximum output of 12W. Interchangeable lenses to suit clients' needs perfectly.

Downlight avec un design exclusif composé de 6 leds. Il peut be connecté a 350 mA et a 500mA, avec rendimnt maxime de 18W. Optiques interchangeables pour s'adapter à la perfection aux besoins du client.

Downlight in exklusivem design. Bestehend aus 6 LEDs, die an 350mA oder 500mA angeschlossen werden können. Mit einer maximalleistung von 12W.
Austauschbare Linsen zur perfekten Anpassung der Leuchten an die Anforderungen des Kunden.



CREE Led

equivalente a brighter as 50w Halogen

PMMA ALU

IP 20

20° 20° not incl. driver Dimming

40° .IES

350mA 6w 500mA 12w

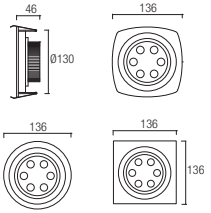
pag.60 nº 09 pag.172

S2-N3 Aluminio cepillado-Gris
Brushed aluminium-Grey
Aluminium brossé-Gris
Aluminium gebrüstet-Grau

80,6 Lm/watt

Warm W. 2900K

Ø130mm



| Acabados Finishes | | Ópticas Lenses | Warm W / Cálido 2900k |
|---|---|---|---|
| | | 40º | 90-3482-S2-N3 |
| | | 40º | 90-3487-S2-N3 |
| | | 40º | 90-3427-S2-N3 |

Disipador de temperatura tubular. Fabricado en aluminio mecanizado de alta densidad.

A tubular heat sink. Made of high density worked aluminium.

Dissipateur thermique tubulaire en aluminium mecanisé haute densité.

Röhrenkühler aus gefrästem hochdichtem Aluminium.

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0808-00-00 (1 pieza / *1 piece*)
ACT-0816-00-00 (1 a 3 piezas / *1 to 3 pieces*)

**500mA**
71-3309-00-00 (1 pieza / *1 piece*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 2 piezas / *1 to 2 pieces*)
**500mA**
71-3475-00-00 (1 pieza / *1 piece*)

15° 71-3325-00-00
60° 71-3328-00-00
25° 71-3326-00-00
80° 71-3329-00-00

50

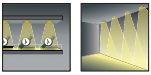
# Delta 9

Downlight con diseño exclusivo compuesto de 9 leds. Puede conectarse a 350mA y a 500mA, con un rendimiento máximo de 18W. Ópticas intercambiables para ajustarse perfectamente a las necesidades del cliente.

A downlight featuring an exclusive design of 9 leds. It can be connected to 350mA and to 500mA, with a maximum output of 18W. Interchangeable lenses to suit clients' needs perfectly.

Downlight avec un design exclusif composé de 9 leds. Il peut be connecté a 350 mA et a 500mA, avec rendimnt maxime de 18W. Optiques interchangeables pour s'adapter à la perfection aux besoins du client.

Downlight in exklusivem design. Bestehend aus 9 LEDs, die an 350mA oder 500mA angeschlossen werden können. Mit einer maximalleistung von 18W.
Austauschbare Linsen zur perfekten Anpassung der Leuchten an die Anforderungen des Kunden.



equivalente a brighter as **70w Halogen**

CREE Led

ALU PMMA

IP 20

Dimming 20° 20° not incl. driver

.IES 40°

350mA 9w | 500mA 18w

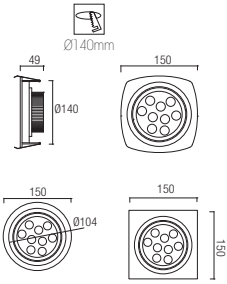
nº 10 pag.172 | pag.60

S2-N3 Aluminio cepillado-Gris
Brushed aluminium-Grey
Aluminium brossé-Gris
Aluminium gebrüstet-Grau

80,6 Lm/watt

Warm W 2900K

| Acabados Finishes | | Ópticas Lenses | Warm W / Cálido 2900k |
|---|---|---|---|
| | | 40º | 90-3483-S2-N3 |
| | | 40º | 90-3488-S2-N3 |
| | | 40º | 90-3428-S2-N3 |



Disipador de temperatura tubular. Fabricado en aluminio mecanizado de alta densidad.

A tubular heat sink. Made of high density worked aluminium.

Dissipateur thermique tubulaire en aluminium mecanisé haute densité.

Röhrenkühler aus gefrästem hochdichtem Aluminium.

15° 71-3325-00-00
60° 71-3328-00-00
25° 71-3326-00-00
80° 71-3329-00-00

50

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0816-00-00 (1 a 2 piezas / *1 to 2 pieces*)

**500mA**
71-3309-00-00 (1 pieza / *1 piece*)

**DIMMING**
**350mA**
71-3475-00-00 (1pieza / *1 piece*)
**500mA**
71-3475-00-00 (1pieza / *1 piece*)

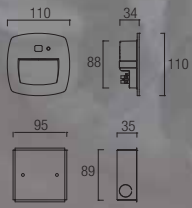
# Smart

Aplique inteligente de señalización, con tecnología led, de diseño contemporáneo con cuerpo de aluminio inyectado. Incorpora un sensor infrarrojo de movimiento y un sensor detector de luz. Excelente para garantizar la seguridad en la oscuridad, proyectando un haz de luz cálido hacia el suelo al detectar el movimiento.
Versión empotrada o de superficie fácilmente adaptable.

Intelligent led light-fitting indicator with a modern design, featuring an injected aluminium body. It includes an infrared movement sensor and a light detector. Excellent to guarantee safety in the dark, projecting a warm beam of light towards the floor when it detects movement.
Easily adaptable fitted or surface version.

Applique intelligente de signalisation. Intègre un capteur infrarouge de mouvement et un détecteur de lumière. Convient parfaitement pour garantir la sécurité dans l'obscurité en projetant un faisceau lumineux chaud vers le sol lorsqu'il détecte un mouvement.
Version encastrée ou à montage en surface facilement adaptable

Intelligente Orientierungs-Wandleuchte mit Infrarot-Bewegungsmelder und Lichtsensor. Bestens geeignet, um auch bei Dunkelheit Sicherheit zu bieten. Wenn eine Bewegung entdeckt wird, wird ein Warmlichtstrahl in Richtung Boden ausgestrahlt.
Ausführung als Einbaumodell, das auch einfach zu einem Aufbaumodell angepasst werden kann.



88x88mm

| Acabados Finishes | Warm W / Cálido 3300k |
|---|---|
| ○ | 05-3303-N3-00 |

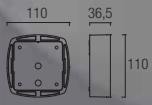
N3 Gris / Grey
Gris / Grau

Aplique inteligente de señalización que incorpora un sensor infrarrojo de movimiento y un sensor crepuscular

*Intelligent led light-fitting indicator that includes an infrared movement sensor and a dusk sensor.*

Smart superficie / Surface Smart
Smart en surface / Smart Aufbaumodell

05-3303-N3-00 + 71-3303-N3-00



Accesorios / Accessories
Accesoires / Zubehör

71-3303-N3-00
Caja para montaje en superficie.
Surface kit.
Boîte pour montage en surface.
Aufbaukit.

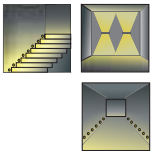
# Star

Aplique decorativo de superficie con tecnología led y cuerpo de aluminio. Proyecta 4 flujos luminosos perpendiculares creando un efecto de cuadrícula en la pared, por lo que resulta ideal para ambientes contemporáneos y vanguardistas.

A decorative surface led light fitting with an aluminium body. It projects 4 luminous perpendicular beams, creating a grid effect onto the wall, which makes it ideal for contemporary and modern environments

Applique décorative à montage en surface. Projette quatre flux lumineux perpendiculaires créant un effet de quadrillage sur le mur. Elle s'adapte parfaitement aux ambiances contemporaines et modernes.

Dekorative Aufbau-Wandleuchte. Projiziert 4 Lichtstrahlen im rechten Winkel, die ein Lichtgitter an die Wand werfen. Ideal zum Einsatz in zeitgenössischen und modernen Ambienten.



CREE Led

ALU PMMA

IP 20

Dimming not incl. driver

.IES 15°

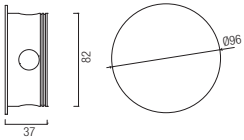
350mA 4w

nº 11 pag.172 pag.60

N3 Gris / Grey Gris / Grau

87,4 Lm/watt

Natural W 4500K Blue




| Acabados Finishes | Natural W 4500k | B (azul / blue) |
|---|---|---|
| ● | 05-3391-N3-00 | 05-3397-N3-00 |

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0804-00-00 (1 pieza / *1 piece*)
ACT-0808-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0816-00-00 (1 a 4 piezas / *1 to 4 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 3 piezas / *1 to 3 pieces*)

# Yeday

Serie de apliques led de diseño minimalista realizados en aluminio pulido con junta transparente que crea un efecto de anillo luminoso. Innovadora familia con un espectacular haz de luz concentrado. Incorpora un set de ópticas fácilmente intercambiables para facilitar la adaptación del haz de luz, ya sea blanca cálida o blanca fría, a las diferentes necesidades.

A series of minimalist led light-fittings executed in polished aluminium with a transparent joint to create an effect of a luminous ring. An innovative family boasting spectacular, concentrated light. It includes a set of easily interchangeable lenses to facilitate the adjustment of light beams, whether warm white or cold white, to different needs.

Série d'appliques à diodes électrolum-inescentes de design minimaliste, en aluminium poli avec jonction transparente qui crée un effet d'anneau lumineux. Intègre un jeu d'éléments optiques facilement interchangeables pour faciliter l'adaptation du faisceau lumineux. Jeu d'éléments optiques inclus.

LED-Wandleuchte-Serie in minimalistischem Design, aus poliertem Aluminium mit transparenter Dichtung zur Erzeugung eines Leuchtringeffekts. Mit einen Austausch-Linsensatz zur Anpassung des Lichtstrahls. Linsensatz im Lieferumfang enthalten.

S2 Aluminio cepillado
Brushed aluminium
Aluminium brossé
Aluminium gebrüstet

93,9 Lm/watt — Cold W 6000K

80,6 Lm/watt — Warm W 2900K

nº 12-13 pag.172
pag.60



Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces*)
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces*)

**700mA**
71-3305-00-00, 71-3306-00-00 (1 pieza / *1 piece*)
71-3307-00-00 (1 a 4 piezas / *1 to 4 pieces*)
71-3308-00-00 (1 a 6 piezas / *1 to 6 pieces*)

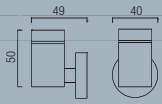
**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)
**700mA**
71-3475-00-00 (1 a 9 piezas / *1 to 9 pieces*)

Set ópticas incluidas.
Set of lenses included.
Set d'optiques inclues.
Linsenset inklusiv.

x 1 x 1

| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 2900k |
|---|---|---|
| | 05-3377-S2-00 | 05-3378-S2-00 |

350mA **1w** 700mA **3w**




Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0803-00-00 (1 pieza / *1 piece*)
ACT-0804-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0808-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0816-00-00 (1 a 9 piezas / *1 to 9 pieces*)

**700mA**
71-3307-00-00 (1 a 2 piezas / *1 to 2 pieces*)
71-3308-00-00 (1 a 3 piezas / *1 to 3 pieces*)

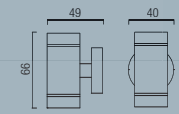
**DIMMING**
**350mA**
71-3475-00-00 (1 a 6 piezas / *1 to 6 pieces*)
**700mA**
71-3475-00-00 (1 a 4 piezas / *1 to 4 pieces*)

Set ópticas incluidas.
Set of lenses included.
Set d'optiques inclues.
Linsenset inklusiv.

x 2 x 2

| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 2900k |
|---|---|---|
| | 05-3381-S2-00 | 05-3382-S2-00 |

350mA **2w** 700mA **6w**



# Ledio

Apliques de pared para la creación de efectos de luz o iluminación vertical de cuadros.

Wall fixtures for the creation of effects of light or vertical lighting of pictures.

Des appliques pour la création d'effets de lumière ou l'éclairage vertical de tableaux.

Wandleuchten zum Lichteffekte Erstellung oder Vertikalbeleuchtung von Bildern.

CREE Led

PMMA ALU

RF 850º CE 0,1m

IP 20

220-240 VAC

.IES included driver

nº 14-15
pag.172

15º

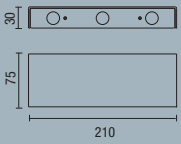
S2 Aluminio cepillado
Brushed aluminium
Aluminium brossé
Aluminium gebrüstet

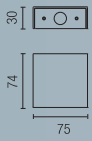
93,9 Lm/watt

Cold W 6000K

| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | AP-0503-S2-00 |

3w






| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | AP-0501-S2-00 |

1w

# Ledio

Empotrable de suelo con un innovador sistema de montaje, sin marco exterior, que permite que el aparato quede perfectamente integrado en el suelo, haciéndolo ideal para la definición e indicación de rutas peatonales no sólo en interiores sino también en exteriores.

Floor recessed luminaire with an innovative mounting system, without outer obtrusive trim, which allows the luminaire to be perfectly integrated in the floor. Ideal for definition and indication of pedestrian routes either in indoor or outdoor applications.

Encastrables dans le sol avec un système de montage novateur sans cadre extérieur qui permet d'intégrer parfaitement l'appareil dans le sol. Ideal pour la définition et signalisation de routes piétonnes autant à l'intérieur que à l'extérieur.

Zum Einbau im Boden geeignet, ein neuartiges Montagesystem ohne Außenrahmen gestattet die perfekte Einpassung in den Boden. Ideal für die Bezeichnung der Fussgängerwege im Innen- und Außenbereich.

CREE Led

ALU GLASS

IP 66 | 0,1m | IK09 | RF 850º | CE

220-240 VAC

included driver | Halo | .IES

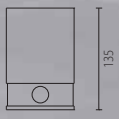
3w

n° 16 pag.173

93,9 Lm/watt

Cold W 6000K

Ø91mm



| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| ○ | EP-0506-00-B9 |

# Ledio

Suspensión decorativa, con un Led de 3W, para la iluminación puntual en bares, recepciones de hoteles y tiendas en general.

Decorative suspended luminaire, with one 3W PowerLed, for punctual lighting in bars, hotel receptions and shops in general.

Suspension décorative avec une diode électroluminescente de 3 W pour l'éclairage fin dans les bars, réceptions et boutiques en général.

Dekorative Aufhängung mit einem 3-Watt-LED zur Akzentbeleuchtung in Cafés und Kneipen, an Empfangsschaltern und in Geschäften.

CREE Led

PMMA ALU

IP 20 | RF 850º | CE | 0,1m

220-240 VAC

.IES | 15º | included driver

3w

nº 17
pag.173

S2 Aluminio cepillado
Brushed aluminium
Aluminium brossé
Aluminium gebrüstet

93,9 Lm/watt

Cold W 6000K

| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | SP-0100-S2-00 |

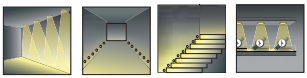
Mini downlight led con efecto de concentración lumínica de alta versatilidad. Realizado con cuerpo de aluminio mecanizado de alta pureza, incorpora un kit de 2 ópticas fácilmente intercambiables entre ellas.

Mini led downlight featuring a highly versatile concentrated light effect. Manufactured with a body of very pure worked aluminium. It includes a kit of 2 easy interchangeable lenses.

Mini diode électroluminescente d'éclairage vers le bas à effet de concentration lumineuse hautement polyvalente. Avec un corps en aluminium mécanique extrêmement pur, intègre un kit de deux éléments optiques facilement interchangeables.

Mini-LED-Downlight mit Strahlkonzentration, vielseitig einsetzbar. Gehäuse aus gefrästem hochreinem Aluminium, mit Set aus 2 austauschbaren Linsen.

# Oxy



CREE Led

ALU PMMA

IP 20 IK 03 F CE

.IES 15º 25º 40º 20º 20º

Dimming

350mA 700mA
1w 3w

nº 18 pag.173 pag.60

S2 Aluminio cepillado / Brushed aluminium / Aluminium brossé / Aluminium gebrüstet

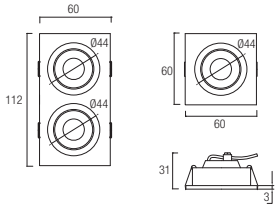
54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

max. 80,6 Lm/watt

Warm W 2900K 3200K

53 x 105mm

Ø53mm




| Acabados Finishes | | Warm W / Cálido 2900K-3200K |
|---|---|---|
| | | 90-3489-54-S2 |
| | | 90-3490-54-S2 |

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

Set ópticas incluidas.
Set of lenses included.
Set óptiques inclues.
Linsenset inklusiv.

90-3489-54-S2

**350mA**
ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces*)
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces*)

**700mA**
71-3305-00-00 (1 pieza / *1 piece*)
71-3306-00-00 (1 pieza / *1 piece*)
71-3307-00-00 (1 a 4 piezas / *1 to 4 pieces*)
71-3308-00-00 (1 a 6 piezas / *1 to 6 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)
**700mA**
71-3475-00-00 (1 a 9 piezas / *1 to 9 pieces*)

90-3490-54-S2

**350mA**
ACT-0803-00-00 (1 pieza / *1 piece*)
ACT-0804-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0808-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0816-00-00 (1 a 9 piezas / *1 to 9 pieces*)

**700mA**
71-3307-00-00 (1 a 2 piezas / *1 to 2 pieces*)
71-3308-00-00 (1 a 3 piezas / *1 to 3 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 6 piezas / *1 to 6 pieces*)
**700mA**
71-3475-00-00 (1 a 4 piezas / *1 to 4 pieces*)

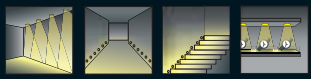
# Bit

Mini downlight led con efecto de concentración lumínica de alta versatilidad. Realizado con cuerpo de aluminio mecanizado de alta pureza, incorpora un kit de 2 ópticas fácilmente intercambiables entre ellas.
Dos colores de luz blanca para una perfecta conciliación a los diferentes ambientes.

A miniature led downlight featuring a highly versatile concentrated light effect. Executed with a body of very pure worked aluminium. It includes a kit of 2 easily interchangeable lenses. Two white light colours for perfect adaptation to different environments.

Mini diode électroluminescente d'éclairage vers le bas avec effet de concentration lumineuse hautement polyvalente. Avec un corps en aluminium mécanique extrêmement pur, intègre un kit de deux éléments optiques facilement interchangeables.

Mini-LED-Downlight mit Strahlkonzentration, vielseitig einsetzbar. Gehäuse aus gefrästem hochreinem Aluminium, mit Set aus 2 austauschbaren Linsen.
Zwei weiße Lichtfarben für eine perfekte Anpassung in verschiedenen Ambienten.



SREC Led

ALU PMMA

IP 20 IK 03 CE

.IES Dimming not incl. driver

15° 25° 40°

350mA 700mA
1w 3w

nº 19 pag.172

pag.60

Ø35mm

S2 Aluminio cepillado
Brushed aluminium
Aluminium brossé
Aluminium gebrüstet

93,9 Lm/watt | 80,6 Lm/watt

Cold W 6000K | Warm W 2900K

| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 2900k |
|---|---|---|
| | 05-3307-S2-00 | 05-3308-S2-00 |

Set ópticas incluidas.
Set of lenses included.
Set óptiques inclues.
Linsenset inklusiv.

25° x 1 | 40° x 1

**Equipos** (ver pág. 58-59) / **Gears** *(see page 58-59)*
**Équipes** (voir page 58-59) / **Treiber** (siehe seite 58-59)

**350mA**
ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces)*
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces)*
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces)*

**700mA**
71-3305-00-00, 71-3306-00-00 (1 pieza / *1 piece*)
71-3307-00-00 (1 a 4 piezas / *1 to 4 pieces*)
71-3308-00-00 (1 a 6 piezas / 1 to 6 pieces)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)
**700mA**
71-3475-00-00 (1 a 9 piezas / *1 to 9 pieces*)

# Ledio

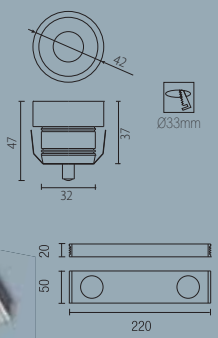
Mini downlights ideales para la iluminación de acento a corta distancia de objetos pequeños y delicados.

Mini downlights ideal for accent lighting at short distances of small and delicate goods.

Mini éclairages vers le bas, parfaits pour l'éclairage fin à courte distance d'objets de petite taille et délicats.

Mini-Downlights, ideal zur akzentuierenden Beleuchtung kleiner Objekte aus kurzer Entfernung.

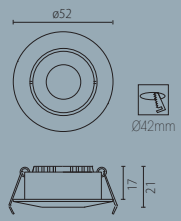
| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 3000k | 1w |
|---|---|---|---|
| | DN-0470-S2-00 | DN-0510-S2-00 | |



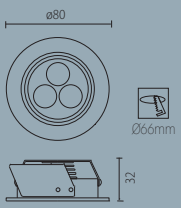

Accesorios / Accessories / Accesoires / Zubehör

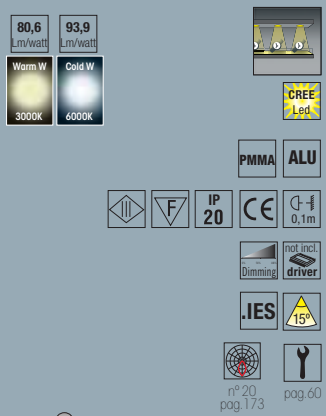
Posibilidad de montaje en superficie usando la base de montaje **ACT-0458** para dos downlights.
Possible installation on surface using the mounting base **ACT-0458**.
Possibilité de montage en surface à l'aide de la base de montage **ACT-0458**.
Möglichkeit der Aufbaumontage bei Verwendung des Sockels **ACT-0458**.

| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 3000k | ±15° | 1w |
|---|---|---|---|---|
| | DN-0472-S2-00 | DN-0511-S2-00 | | |




| Acabados Finishes | Cold W / Frío 6000k | Warm W / Cálido 3000k | ±15° | 3w |
|---|---|---|---|---|
| | DN-0297-N3-00 | DN-0512-N3-00 | | |




**S2** Aluminio cepillado / Brushed aluminium / Aluminium brossé / Aluminium gebrüstet

**N3** Gris / Grey / Gris / Grau

**Equipos** (ver pág.58-59) **/ Gears** (see page 58-59)
**Équipes** (voir page 58-59) **/ Treiber** (siehe seite 58-59)

ACT-0803-00-00, ACT-0804-00-00, ACT-0808-00-00, ACT-0816-00-00,

**DIMMING**
**350mA**
71-3475-00-00

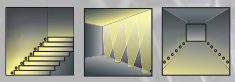
# Thin

Kit de tres luminarias led minimalistas de señalización con un único controlador de equipo.
Extremadamente delgado, ideal para suelos, paredes y techos de madera... permite una rápida y cómoda instalación en cualquier localización.
El cuerpo está fabricado en aluminio con frontal de policarbonato resistente al peso y elevada estanqueidad.

A kit of three minimalist signposting led lights with a unique controller. It is extremely slim and ideal for wooden floors, walls and ceilings ... it enables rapid and convenient installation in any location. Features an aluminium body with a weight resistant polycarbonate frontal that is highly water resistant.

Kit de trois lampes minimalistes de signalisation à diodes électroluminescentes, avec un seul contrôleur d'appareillage. Extrêmement fin, idéal pour les sols, les murs, les plafonds en bois, les moquettes, etc.
Corps en aluminium avec partie avant en polycarbonate résistant au poids.

Kit aus drei LED-Leuchten im minimalistischen Design zur Orientierung, das mit einem Regler gesteuert wird. Besonders platzsparend konzipiert, ideal für Böden, Wände und Decken aus Holz, Teppichböden..Gehäuse aus Aluminium mit Front aus belastbarem Polykarbonat.



ALU PLAS TIC

IP 65 IK 06

220-240 VAC

.IES Halo included driver

3x 0,5w

pag.61

54 Aluminio anodizado
Anodized aluminium
Aluminium anodisé
Eloxiertes Aluminium

| Acabados Finishes | Warm W / Cálido 2900k |
|---|---|
| ◯ | 55-3357-54-M3 |

Warm W 2900K

Incluido 50cm de cable en cada punto de luz y 300cm de cable del transformador.

Each light has 50cm of wire and the transformer has 300 cm .

50 cm du câble inclu pour chaque point de lumière et 300 cm du câble pour le transformateur.

50 cm Kabel an jedem Lichtpunkt und 300 cm Kabel am Trafo inklusiv.

## KIT Thin

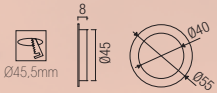
Kit de 3 luminarias Thin, sin driver y con cable de conexión preparado para ampliar la luminaria 55-3357. El número máximo de puntos de luz conectados a un sólo driver son 9.

A kit containing 3 Thin light fittings, with no driver, and a connection cable prepared for expanding the 55-3357 light fitting. The maximum number of points of light connected to a single driver is nine.

Kit de 3 lampes Thin, sans driver et avec câble de raccordement pour permettre l'extension de l'éclairage 55-3357. Le nombre maximal de points de lumière branchés sur un seul driver est de 9.

Kit mit 3 Thin-Leuchten, ohne Treiber und mit Verbindungskabel für die Erweiterung der Leuchte 55-3357. An einem Treiber können maximal 9 Lichtquellen angeschlossen werden.

| Acabados Finishes | Warm W / Cálido 2900k |
|---|---|
| ◯ | 71-3357-54-M3 |



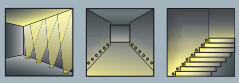
# Petit

Mini punto de luz led decorativo, perfecto para la señalización arquitectural. Fabricado en policarbonato, aluminio y cristal translúcido que le proporcionan una alta estanqueidad y una protección anticorrosiva.

A miniature decorative led light point, perfect for architectural signposting. Made of polycarbonate, aluminium and translucent glass, they provide a high level of water protection and protection against corrosion.

Mini point lumineux décoratif à diode électroluminescente, parfait pour la signalisation architecturale. En polycarbonate, aluminium et verre translucide qui lui confèrent une haute étanchéité et une protection contre la corrosion.

Dekorativer Mini-LED-Lichtpunkt, perfekt für Orientierungsbeleuchtung. Hergestellt aus Polykarbonat, Aluminium und durchscheinendem Glas für hohe Dichtheit und Schutz gegen Korrosion.



ALU | PLASTIC

IP 65 | IK 05 | CE

not incl. driver | 1,4 m

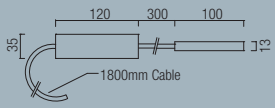
Halo | .IES

0,3w

N3 Gris / Grey
Gris / Grau

Cold W 6000K

| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | 55-3401-N3-M3 |



| | |
|---|---|
| 71-3318-00-00 | 90-264VAC |

Accesorios / Accessories
Accesoires / Zubehör

71-3318-00-00
1 Driver (6 petit)
*1 Driver (6 petit)*

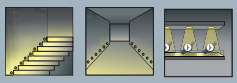
# Dot

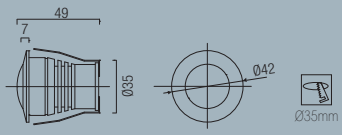
Punto de luz led perfectamente apto para aplicaciones de iluminación y señalización. Con cuerpo de aluminio de alta densidad y con cristal translúcido. Por su alta estanqueidad resulta ideal para ambientes húmedos.

A led light spot that is suitable for lighting and signposting applications. Featuring a high density aluminium body with translucent glass. Because of its high water resistance, it is ideal for wet environments

Point lumineux à diode électroluminescente parfaitement adapté aux applications fines d´éclairage et de signalétique. Avec corps en aluminium haute densité et verre translucide. Sa grande étanchéité en fait l´éclairage idéal pour les environnements humides.

LED-Lichtpunkt, bestens geeignet für Beleuchtungs- und Orientierungsanwendungen. Mit hochdichtem Aluminiumgehäuse und durchscheinendem Glas. Dank der hohen Dichtheit des Gehäuses ist die Leuchte bestens für feuchte Umgebungen geeignet.






CREE Led

ALU | GLASS

IP 54 | IK 02 | RF 850º | CE

Dimming | not incl. driver

.IES | Halo

350mA 1w | 700mA 3w

pag.60

N3 Gris / Grey
Gris / Grau

80,6 Lm/watt

Warm W 2900K

| Acabados Finishes | Warm W / Cálido 2900k |
|---|---|
| | 05-3314-N3-B9 |

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**

ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces*)
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces*)
IP68 71-3477-00-00 (1 a 8 piezas / *1 to 8 pieces*)

**700mA**

71-3305-00-00, 71-3306-00-00 (1 pieza / *1 piece*)
71-3307-00-00 (1 a 4 piezas / *1 to 4 pieces*)
71-3308-00-00 (1 a 6 piezas / *1 to 6 pieces*)
IP68 71-3478-00-00 (1 a 7 piezas / *1 to 7 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)
**700mA**
71-3475-00-00 (1 a 9 piezas / *1 to 9 pieces*)

# Ledio

Mini empotrables ideales para iluminación de señalización. Posibilidad de suministrar separadamente filtros de color para una mejor integración en cada ambiente.

Mini recessed luminaires ideal for signalling and route indication. Possibility to deliver separately colour filters for a better integration in each environment.

Encastrable et de petite taille, idéale pour l'éclairage de signalisation. Possibilité d'ajouter indépendamment des filtres de couleur pour une meilleure intégration à chaque ambiance.

Mini-Einbauleuchten, ideal zur Orientierungsbeleuchtung. Als Zubehör können Farbfilter geliefert werden, um den Lichtstrahl an die Umgebung anzupassen.

CREE Led

Ø35mm

ALU

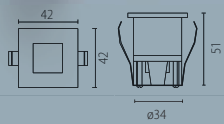
IP 41 | CE | RF 850º | 0,1m

not incl. driver | .IES | Halo

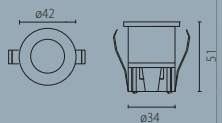
1w

pag.60

N3 Gris / Grey
Gris / Grau




| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | DN-0289-N3-00 |




| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | DN-0290-N3-00 |

Accesorios / Accessories / Accesoires / Zubehör

Posibilidad de incorporar filtros de color - consultar.
Possibility to include coloured filters.
Possibilité d'incorporer des filtres à couleur - veuillez consulter.
Farbfilter können bestellt werden.

93,9 Lm/watt

Cold W 6000K

Equipos (ver pág.58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces*)
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)

# Sign

Luminarias para ser utilizadas en cualquier proyecto de iluminación de señalización o ambiental en zonas comerciales, oficinas, hoteles, etc.

Luminaires to be used in any environmental or signalling project in commercial areas, offices, hotels, etc.

Les luminaires sont conseillés pour tout type de projet d'éclairage de signalisation ou d'ambience dans des zones comerciales, bureaux, hôtels, etc

Geeignete Leuchten für Signalisierung oder umgebende Beleuchtung in Läden, Büros, Hotels, usw.

CREE Led

80x106mm
con caja / *with box*
77x77mm
sin caja / *without box*

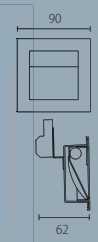
ALU

IP 20 | RF 850º | CE | 0,1m

.IES | included | not incl. driver | Halo

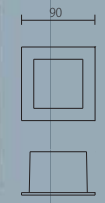
1w

pag.60




| Acabados Finishes | Warm W / Cálido 3000k |
|---|---|
| | EP-0356-N3-00 |

N3 Gris / Grey
Gris / Grau




93,9 Lm/watt | 80,6 Lm/watt

Cold W 6000K | Warm W 3000K

| Acabados Finishes | Cold W / Frío 6000k |
|---|---|
| | EP-0360-N3-XY |

Accesorios / Accessories / Accessories / Zubehör

| código / *code* | |
|---|---|
| ACT-0364-00-00 | |

| código / *code* | |
|---|---|
| ACT-0365-00-00 | EXIT / SALIDA |

**350mA**
ACT-0803-00-00 (1 a 3 piezas / *1 to 3 pieces*)
ACT-0804-00-00 (1 a 4 piezas / *1 to 4 pieces*)
ACT-0808-00-00 (1 a 8 piezas / *1 to 8 pieces*)
ACT-0816-00-00 (1 a 18 piezas / *1 to 18 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 12 piezas / *1 to 12 pieces*)

Bañadores led minimalistas de 18w y 36w, fácilmente integrable en la arquitectura. Incorpora un filtro protector UVA y un eficaz disipador de temperatura.
Versión RGB controlable con sistema DMX. Versión de luz blanca controlable con DALI y 1-10v.
Para bañadores de un único color de luz, consultar red comercial.

Minimalist led wall washers to be 18 W and 36 W minimalist LED wall washers, easily integrated into the architecture. Includes a UV protection filter and an effective heat diffuser.
RGB version, controlled using a DMX system. White light version, controlled using the DALI interface, 1-10 V.
For wall washers with a single light colour, consult your sales network.

Projecteurs à diode électroluminescente minimalistes de 18 et 36 watts s'intégrant facilement à l'architecture. Comporte un filtre protecteur UVA et un dissipateur thermique efficace.
Proposé en version RGB contrôlable par système DMX. Existe en lumière blanche, contrôlable par DALI et 1-10 V.
Pour les projecteurs à faisceau à lumière unicolore, consulter le réseau commercial.

Minimalistische LED-Wallwasher mit 18W und 36W, leicht in die Architektur integrierbar. Mit UV-Schutzfilter und effizientem Kühler.
RGB-Ausführung steuerbar mit DMX-System. Weißlichtausführung steuerbar mit DALI und 1-10V.
Wallwashers mit einfarbigem Licht auf Anfrage beim Vertrieb.

# Tron

CREE Led

ALU | UVA GLASS

IP 65 | IK 05 | RF 850º | CE

120º

.IES | 25º

not incl. driver | Dimming | 24 VDC

1 m 36w | 0,5 m 18w

100 Lm/watt

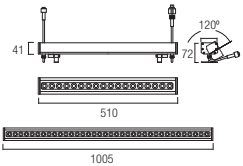
595lm | 2110lm

RGB | Natural W 5500K

nº 21 pag.173 | pag.62-63

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium






| Acabados Finishes | LEDS | Neutral W 5500k | RGB |
|---|---|---|---|
| | 18W | 05-3438-54-H6 | 05-3439-54-H6 |
| | 36W | 05-3440-54-H6 | 05-3441-54-H6 |

Equipos (ver pág. 56) / Gears (see page 56)
Équipes (voir page 56) / Netzgeräte (siehe seite 56)

IP 67 71-3480-00-00 (24VDC-130W)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)

**05-3438-54-H6/ 05-3440-54-H6**
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)

**05-3439-54-H6/ 05-3441-54-H6**
71-3474-00-00 (DMX)

Para conocer la gama de colores disponible, consulte nuestro Equipo Comercial y/o Atención Cliente
Please check with our Sales People and/or Customer Service to know availability on our colour range.
À fin de connaître l'éventail des couleurs disponibles, veuillez consulter notre Équipe Commerciale ou le Service Clientèle
Bitte wenden Sie sich an unsere Kundendienstabteilung, um weitere Informationen über die verfügbaren Farben zu bekommen.

Proyector led de 36w muy polivalente y fácilmente integrable en la arquitectura. Incorpora protección UVA y un eficaz disipador de temperatura.
Versión RGB controlable con sistema DMX. Versión de luz blanca controlable con DALI y 1-10v.
Para proyectores de un único color de luz, consultar red comercial.

Highly versatile 36 W LED projector, easily integrated into the architecture. Includes UV protection and an effective heat diffuser.
RGB version, controlled using a DMX system. White light version, controlled using the DALI interface, 1-10 V.
For projectors with a single light colour, consult your sales network.

Projecteur à diodes électroluminescentes de 36 watts particulièrement polyvalent et qui s'intègre facilement à l'architecture. Comporte une protection contre les UVA et un dissipateur thermique efficace.
Proposé en version RGB contrôlable par système DMX. Existe en lumière blanche, contrôlable par DALI et 1-10 V.
Pour les projecteurs à lumière unicolore, consulter le réseau commercial.

LED-Projektor 36W, vielseitig verwendbar und leicht in die Architektur integrierbar. Mit UV-Schutz und effizientem Kühler.
RGB-Ausführung steuerbar mit DMX-System. Weißlichtausführung steuerbar mit DALI und 1-10V.
Projektoren mit einfarbigem Licht auf Anfrage beim Vertrieb.

# Ray

CREE Led

ALU | UVA GLASS

F | IP 65 | IK 07 | RF 850º | CE

.IES | 25º | 60º 60º

24 VDC | not incl. driver | Dimming

36w

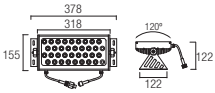
nº 22 pag.173

100 Lm/watt

660lm | 2000lm

Natural W 5500K

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium




Equipos (ver pág. 56) / Gears (see page 56)
Équipes (voir page 56) / Netzgeräte (siehe seite 56)

IP67 71-3480-00-00 (24VDC-130W)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)

**05-3442-54-H6**
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)

**05-3443-54-H6**
71-3474-00-00 (DMX)

| Acabados Finishes | LEDS | Neutral W 5500k | RGB |
|---|---|---|---|
| ● | 36W | 05-3442-54-H6 | 05-3443-54-H6 |

Para conocer la gama de colores disponible, consulte nuestro Equipo Comercial y/o Atención Cliente
Please check with our Sales People and/or Customer Service to know availability on our colour range.
À fin de connaître l'éventail des couleurs disponibles, veuillez consulter notre Équipe Commerciale ou le Service Clientèle
Bitte wenden Sie sich an unsere Kundendienstabteilung, um weitere Informationen über die verfügbaren Farben zu bekommen.

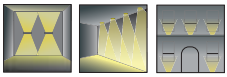
# Midi

Proyector led de alta eficiencia, adecuado para crear efectos de acentuación y excelente para localizaciones de difícil acceso.
Cuerpo fabricado en aluminio mecanizado y pintado con soporte de acero innox AISI 304.
Sus dos ejes de rotación ofrecen una máxima versatilidad.

A high efficiency led projector, perfect to create special lighting effects and excellent for hard to reach locations.
Features a high density mechanized and painted aluminium with stainless feel 304 AISI support.
Its two rotation axles offer maximum versatility.

Projecteur à diodes électroluminescentes haut rendement, adapté à la création d'effets d'accentuation et pour les lieux d'accès difficile.
Corps en aluminium mecanisé haute densité et support en acier inoxydable AISI 304.

LED-Strahler mit hoher Energieeffizienz. Gut geeignet zur Akzentuierung angestrahlter Bereiche, optimal für die Beleuchtung schwer zugänglicher Stellen.
Gehäuse aus eloxiertem hochdichtem Aluminium und Edelstahlhalterung AISI 304.



equivalente a brighter as 30w Halogen

CREE Led

ALU GLASS

IP 65 RF 850º

1,4 m 180º 360º not incl. driver

.IES 15º Dimming

350mA 3w 700mA 9w

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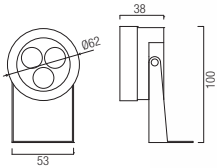
87,4 Lm/watt

Natural W 4500K Blue

N3 Gris / Grey Gris / Grau





Incluido / *Included*

| Acabados Finishes | Natural W 4500k | B (azul / blue) |
|---|---|---|
| ● | 05-3358-N3-37 | 05-3361-N3-37 |

Equipos (ver pág. 58-59) / Gears (see page 58-59)
Équipes (voir page 58-59) / Treiber (siehe seite 58-59)

**350mA**
ACT-0803-00-00, ACT-0804-00-00 (1 pieza / *1 piece*)
ACT-0808-00-00 (1 a 2 piezas / *1 to 2 pieces*)
ACT-0816-00-00 (1 a 6 piezas / *1 to 6 pieces*)
IP68 71-3477-00-00 (1 a 2 piezas / *1 to 2 pieces*)

**700mA**
71-3307-00-00 (1 pieza / *1 piece*)
71-3308-00-00 (1 a 2 piezas / *1 to 2 pieces*)
IP68 71-3478-00-00 (1 a 2 piezas / *1 to 2 pieces*)

**DIMMING**
**350mA**
71-3475-00-00 (1 a 4 piezas / *1 to 4 pieces*)
**700mA**
71-3475-00-00 (1 a 3 piezas / *1 to 3 pieces*)

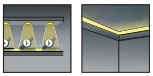
# Lem

Delgada tira de leds de alta potencia, fabricada en aluminio y PMMA para una máxima eficiencia lumínica.
Se integra fácilmente en los ambientes interiores.
Disponible en dos longitudes y dos tonalidades de luz blanca con el fin de adecuarse a las diferentes necesidades.

A slim high power led strip, made of aluminium and PMMA for maximum light efficiency. It can be easily added to interior environments. Available in two lengths and two white light tones that help to make it adapt to different needs.

Fine bandeau de diodes électroluminescentes haute puissance, en aluminium et PMMA pour un rendement de lumière maximal.
Disponible en deux longueurs et deux tonalités de lumière blanche.

Schmaler Streifen mit Hochleistungs-LED, aus Aluminium und PMMA für eine maximale Lichtausbeute.
In zwei Längen und mit zwei verschiedenen weißen Lichttönen lieferbar.



CREE Led

ALU PMMA

IP 20

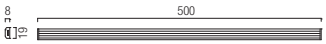
Dimming 1,8 m not incl. driver

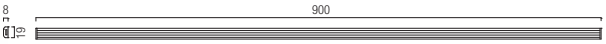
.IES 120°

| 0,5 m | 0,9 m |
|---|---|
| 5w | 9w |

100 Lm/watt 80,6 Lm/watt

Cold W 6000K Warm W 3200K




| Acabados Finishes | Medidas Measures | Cold W / Frío 6000k | Warm W / Cálido 3200k |
|---|---|---|---|
| | L=500 mm | 91-3347-54-M3 | 91-3348-54-M3 |
| | L=900 mm | - | 91-3350-54-M3 |

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

Equipos / Gears
Équipes / Treiber

71-3312-00-00 (1 pieza / *1 piece*)

| | |
|---|---|
| 71-3312-00-00 | 90-264VAC |

Para conjunto completo solicite referencias de tira LEM y DRIVER
Complete set, please order the LEM strip and DRIVER
Pour kit complet, demandez les références du bandeau LEM et son DRIVER
Fürs komplette Kit bitte bestellen Sie das Band LEM und den Treiber

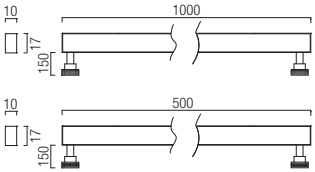
Perfil led de aluminio de alta eficiencia y elevada estanqueidad. Versiones en diferentes tonalidades de blancos y RGB, que proporciona una luz completamente uniforme al incorporar la tecnología triled. Fácilmente controlable con sistemas DMX, Dali, etc.

High efficiency led aluminium profile with a high level of water protection. Versions in different tones of white and RGB, which provides a completely uniform light because of inbuilt triled technology. Easily controllable with DMX and Dali systems.

Diode électroluminescente profilée en aluminium haut rendement et à étanchéité élevée. Versions dans différentes tonalités de blancs et RGB; intègre la technologie Triled. Facilement contrôlable par les de systèmes DMX, Dali, etc.

LED-Profil aus Aluminium mit hoher Lichtausbeute und hoher Dichtheit. Ausführungen in verschiedenen weißen Lichttönen und RGB, mit TRI-LED-Technologie. Leicht zu regeln per DMX, Dali, ...

# Ion




ALU

IP 68

Dimming

12 VDC

not incl. driver

.IES

120°

3m

| 1 m | 0,5 m |
|---|---|
| 14,4w | 7,2w |

| 250lm | 520lm | 440lm |
|---|---|---|
| RGB | Cold W 6000K | Warm W 2900K |

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium



Equipos (ver pág. 55-56) / Gears (see page 55-56)
Équipes (voir page 55-56) / Netzgeräte (siehe seite 55-56)

71-3435-00-00 (72w-6A), 71-3436-00-00 (120w-10A), 71-3437-00-00 (360w-30A)
IP67 71-3479-00-00 (100W-12VDC),

Controladores RGB (ver pág. 54-55) / RGB controlers (see page 54-55)
Contrôleurs RGB (voir page 54-55) / RGB Regler mit Fernbedienung (siehe seite 54-55)
71-3314-00-00, 71-3431-00-00, 71-3432-00-00 (144W-12A)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)
71-3474-00-00 (DMX)

Amplificador (ver pág. 55) / Amplifier (see page 55)
Amplificateur (voir page 55) / Verstärker (siehe seite 55)
71-3433-00-00

| Acabados Finishes | Medidas Measures | Cold W / Frío 6000k | Warm W / Cálido 2900k | RGB |
|---|---|---|---|---|
| | L=500 | 91-3412-54-M2 | 91-3411-54-M2 | 91-3410-54-M2 |
| | L=1000 | 91-3409-54-M2 | 91-3408-54-M2 | 91-3407-54-M2 |

# Zenit

RF 850º | IP 67 | CE

not incl. driver | 12 VDC | .IES

5m | 6 | 

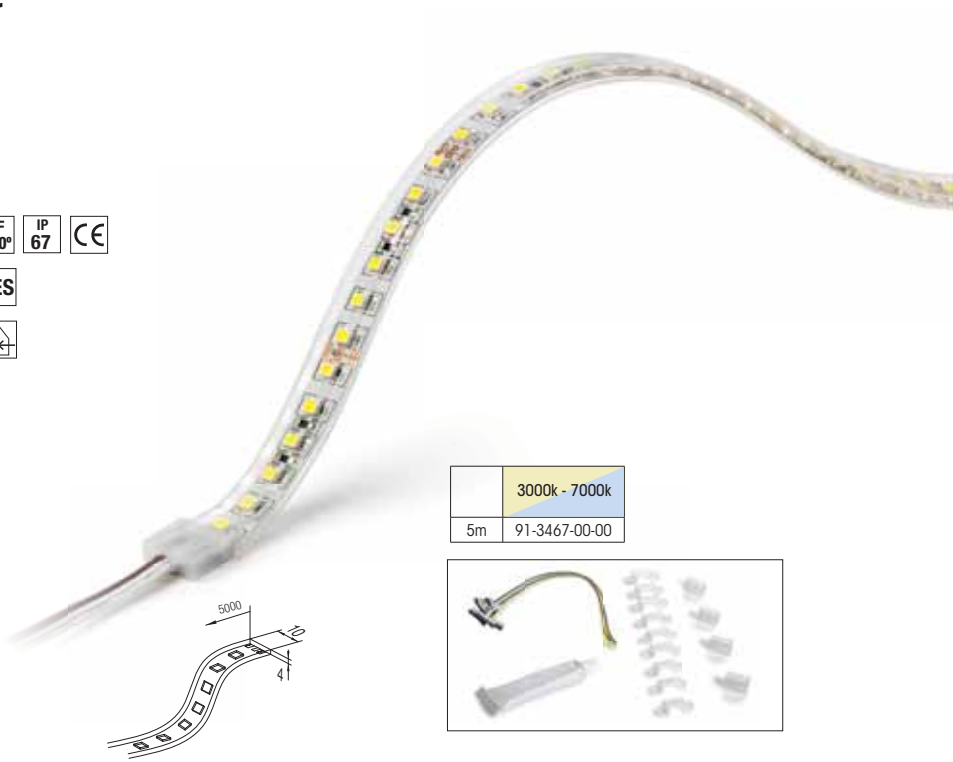
48w | 120º

pag.65

**300 x 3500 mcd**

Warm W
Cold W

3000K-7000K



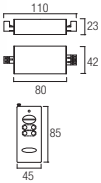

| | 3000k - 7000k |
|---|---|
| 5m | 91-3467-00-00 |



Controlador / Controler / Contrôleur / Steuergerät

71-3467-00-00

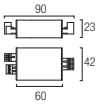
IP 20 | 12 VDC | 72w




Amplificador / Amplifier / Amplificateur / Verstärker

71-3468-00-00

IP 20 | 12 VDC | 72w




Equipos (ver pág. 55-56) / Gears (see page 55-56)
Équipes (voir page 55-56) / Netzgeräte (siehe seite 55-56)
71-3435-00-00 (72w-6A), 71-3436-00-00 (120w-10A),
71-3437-00-00 (360w-30A)
71-3479-00-00 (100W-12VDC) IP67

# Lineal

## Perfil de 2m / 2 m Profile / Profil de 2 m / 2 M Profil

| Acabados Finishes | |
|---|---|
| ● | 71-3454-54-M2 |

ALU ANOD | UVA PMMA

● 54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

Consultar guías de instalación antes de realizar cualquier manipulación. / Consult installation guides before handling the product.
Consulter les guides d'installation avant toute manipulation. / Bitte lesen Sie vor jedem Eingriff die Installationsanleitungen.

Innovadora tira led de 5m que permite el control del color de la luz blanca, desde blanco cálido (3000k) a blanco frío (6000k). Instalados 600 leds SMD.
Esta debe ser controlada con el controlador 71-3467 y amplificador 71-3468.

An innovative 5 m LED strip for adjusting the light colour from warm white (3000 k) to cool white (6000 k). Installed with 600 SMD LEDs.
Controlled using the 71-3467 controller and 71-3468 amplifier.

Bande à diodes électroluminescentes innovatrice de 5 m qui permet le contrôle de la couleur de la lumière blanche, du blanc chaud (3 000 k) au blanc froid (6 000 k). Prévoie l'installation de 600 diodes électroluminescentes SMD.
Doit se contrôler par le biais du contrôleur 71-3467 et de l'amplificateur 71-3468.

IInnovatives LED-Band 5 Meter lang zur Regelung der Farbe von weißem Licht: von warmem Weiß (3000k) bis zu kaltem Weiß (6000k). Installation von 600 LEDs SMD.
Muss über die Regler 71-3467 und Verstärker 71-3468 gesteuert werden.

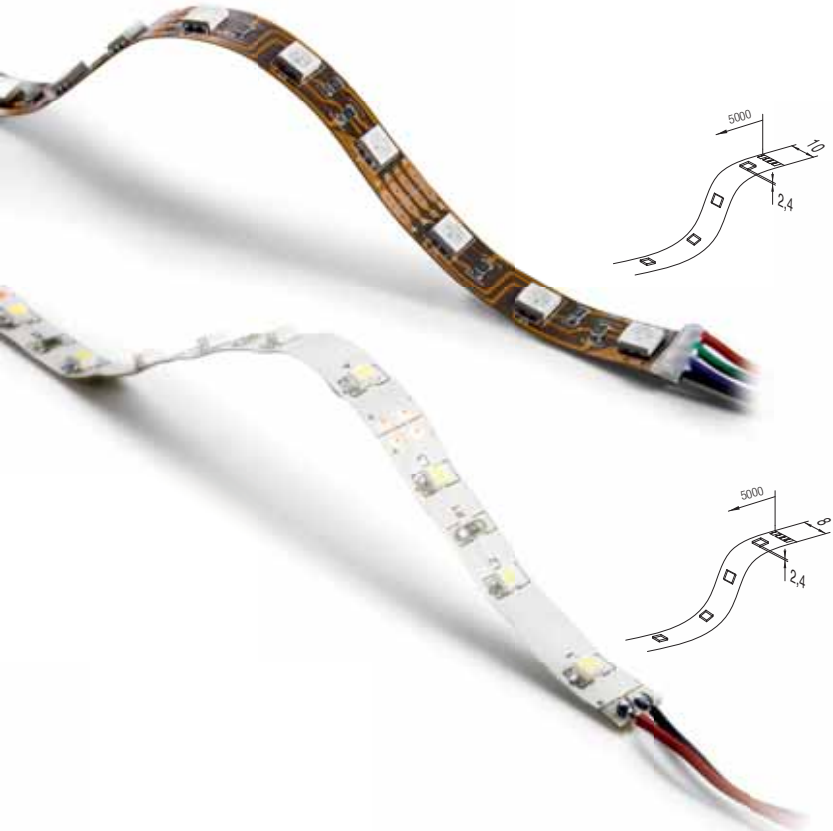
Tira flexible de 5 metros con adhesivo posterior 3M. Versión RGB con 150 SMD led y versión blanca cálida con 300 SMD led. Ideales para instalaciones señalíticas.

Flexible 5-metre strip with 3M adhesive on the back. RGB version with 150 SMD LEDs, and warm white version with 300 SMD LEDs. Ideal for signage installations.

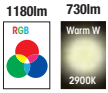
Bande flexibles de 5 mètres avec adhésif postérieur 3M. Existe en version RVB avec 150 diodes électroluminescentes SMD et en version blanc chaud avec 300 diodes électroluminescentes SMD. Idéal pour les installations de signalétique.

Flexible Band 5 Meter lang mit 3M-Klebestreifen auf der Rückseite. RGB-Ausführung mit 150 SMD LED und Ausführung in warmem Weiß mit 300 SMD LED. Ideal für Signalisierung.

# Sigma



pag. 63-64






| | Warm W / Cálido 2900k | RGB |
|---|---|---|
| 5m | 91-3473-00-00 | 91-3474-00-00 |

Equipos (ver pág. 55) / Gears (see page 55)
Équipes (voir page 55) / Netzgeräte (siehe seite 55)
71-3435-00-00 (72w-6A), 71-3436-00-00 (120w-10A),
71-3437-00-00 (360w-30A)

Controladores RGB (ver pág. 54) / RGB controlers (see page 54)
Contrôleurs RGB (voir page 54) / RGB Regler mit Fernbedienung (siehe seite 54)
71-3314-00-00, 71-3431-00-00, 71-3432-00-00 (144W-12A)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)
71-3474-00-00 (DMX)

Amplificador (ver pág. 55) / Amplifier (see page 55)
Amplificateur (voir page 55) / Verstärker (siehe seite 55)
71-3433-00-00

# Lineal

**Perfil de 2m / 2 m Profile / Profil de 2 m / 2 M Profil**

| Acabados Finishes | |
|---|---|
| ● | 71-3454-54-M2 |

● 54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

Consultar guías de instalación antes de realizar cualquier manipulación. / Consult installation guides before handling the product.
Consulter les guides d'installation avant toute manipulation. / Bitte lesen Sie vor jedem Eingriff die Installationsanleitungen.

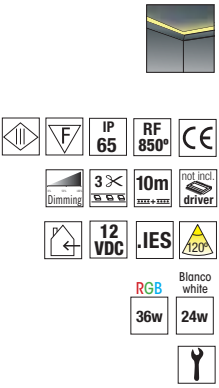
Tiras flexibles de 5 metros de longitud, de alta eficiencia lumínica y completamente estancas.
Versión RGB de 150 SMD led y dos versiones blancas con 300 SMD leds. Ideal para instalaciones exteriores, sumergidas y ambientes muy húmedos.

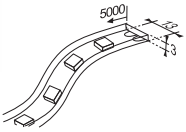
5 metre long flexible strips , of high light efficiency that are fully water proof. There is a RGB version of 150 SMD led and two white versions with 300 SMD leds. Ideal for outdoor and underwater facilities and in very damp environments.

Bandes flexibles de 5 mètres de long, à haut rendement et entièrement étanches.
Version RVB à diodes électroluminescentes de 150 SMD et deux versions blanches avec diodes électroluminescentes de 300 SMD. Idéales pour les installations immergées et les environnements très humides.

Flexible Bänder 5 Meter lang mit hoher Lichtausbeute. und vollkommen dicht. RGB-Version mit 150 SMD-LEDs und zwei weiße Ausführungen mit 300 SMD-LEDs. Ideal für Unterwasserinstallationen und sehr feuchte Umgebungen.

# Rand



| | Cold W / Frío 6000k | Warm W / Cálido 3300k | RGB |
|---|---|---|---|
| 5m | 91-3419-00-00 | 91-3420-00-00 | 91-3421-00-00 |

Equipos (ver pág. 55-56) / Gears (see page 55-56)
Équipes (voir page 55-56) / Netzgeräte (siehe seite 55-56)

71-3435-00-00 (72w-6A), 71-3436-00-00 (120w-10A),
71-3437-00-00 (360w-30A)
IP 67 71-3479-00-00 (100W-12VDC),

Controladores RGB (ver pág. 54) / RGB controlers (see page 54)
Contrôleurs RGB (voir page 54) / RGB Regler mit Fernbedienung (siehe seite 54)
71-3314-00-00, 71-3431-00-00, 71-3432-00-00 (144W-12A)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)
71-3474-00-00 (DMX)

Amplificador (ver pág. 55) / Amplifier (see page 55)
Amplificateur (voir page 55) / Verstärker (siehe seite 55)
71-3433-00-00

# Lineal

## Perfil de 2m / 2 m Profile / Profil de 2 m / 2 M Profil

| Acabados Finishes | |
|---|---|
| | 71-3454-54-M2 |

ALU ANOD | UVA PMMA

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

Consultar guías de instalación antes de realizar cualquier manipulación. / Consult installation guides before handling the product.
Consulter les guides d'installation avant toute manipulation. / Bitte lesen Sie vor jedem Eingriff die Installationsanleitungen.

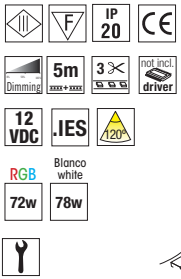
# Rand

Tiras flexibles de 5 metros de longitud, de alta eficiencia lumínica y con adhesivo posterior 3M.
Versión RGB de 300 SMD led y dos versiones blancas con 390 SMD leds. Ideal para instalaciones interiores, retroiluminación y para crear efectos de colores.

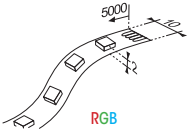
5 metre long flexible strips of high light efficiency with 3M back glue. There is a RGB version of 300 SMD led and two white versions with 390 SMD leds. Ideal for interior facilities, backlighting and to create colour effects.

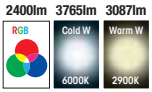
Bandes flexibles de 5 mètres de long, à haut rendement et avec adhésif postérieur 3M.
Version RVB à diodes électroluminescentes de 300 SMD et deux versions blanches avec diodes électroluminescentes de 390 SMD. Idéales pour les installations en intérieur, le rétro-éclairage et la création d'effets colorés.

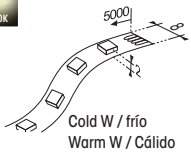
Flexible Bänder 5 Meter lang mit hoher Lichtausbeute und 3M-Klebestreifen auf der Rückseite. RGB-Version mit 300 SMD-LEDs und zwei weiße Ausführungen mit 390 SMD-LEDs. Ideal für Innenanlagen, Hintergrundbeleuchtung und zur Erzeugung von Farbeffekten.




pag. 63-64




Cold W / frío
Warm W / Cálido

Equipos (ver pág. 55) / Gears (see page 55)
Équipes (voir page 55) / Netzgeräte (siehe seite 55)
71-3435-00-00 (72w-6A), 71-3436-00-00 (120w-10A),
71-3437-00-00 (360w-30A)

Controladores RGB (ver pág. 54) / RGB controlers (see page 54)
Contrôleurs RGB (voir page 54) / RGB Regler mit Fernbedienung (siehe seite 54)
71-3314-00-00, 71-3431-00-00, 71-3432-00-00 (144W-12A)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)
71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)
71-3474-00-00 (DMX)

Amplificador (ver pág. 55) / Amplifier (see page 55)
Amplificateur (voir page 55) / Verstärker (siehe seite 55)
71-3433-00-00

| | Cold W / Frío 6000k | Warm W / Cálido 2900k | RGB |
|---|---|---|---|
| 5m | 91-3417-00-00 | 91-3418-00-00 | 91-3416-00-00 |

# Lineal

## Perfil de 2m / 2 m Profile / Profil de 2 m / 2 M Profil

54 Aluminio anodizado / Anodized aluminium / Aluminium anodisé / Eloxiertes Aluminium

| Acabados Finishes | |
|---|---|
| | 71-3454-54-M2 |

Consultar guías de instalación antes de realizar cualquier manipulación. / Consult installation guides before handling the product.
Consulter les guides d'installation avant toute manipulation. / Bitte lesen Sie vor jedem Eingriff die Installationsanleitungen.

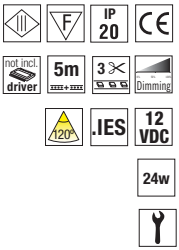
# Rand

Tiras flexibles de 5 metros de longitud de emisión lateral, con adhesivo trasero 3M. Dos versiones blancas con 300 SMD leds. Ideal para instalaciones en espacios reducidos y para retroiluminación.

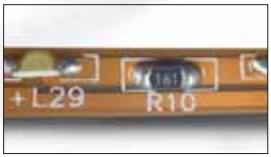
5 metre long flexible side emitting strips, with 3M back glue. There are two white versions with 300 SMD leds. Ideal for facilities in limited spaces and backlighting.

Bandes flexibles de 5 mètres de long à émission latérale avec adhésif arrière 3M. Deux versions blanches avec diodes électroluminescentes de 300 SMD. Idéales pour les installations dans des espaces réduits et pour le rétro-éclairage.

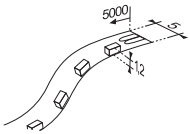
Flexible Bänder 5 Meter lang mit seitlicher Lichtausstrahlung und 3M-Klebestreifen auf der Rückseite. 3M-Klebeband. Zwei weiße Ausführungen mit 300 SMD-LEDs. Ideal für Installationen in engen Räumen und zur Hintergrundbeleuchtung.




pag. 63-64




275lm 225lm




| | Cold W / Frío 6000k | Warm W / Cálido 3300k |
|---|---|---|
| 5m | 91-3422-00-00 | 91-3423-00-00 |

Equipos (ver pág. 55) / Gears (see page 55)
Équipes (voir page 55) / Netzgeräte (siehe seite 55)

71-3436-00-00 (120w-10A),
71-3437-00-00 (360w-30A)

Equipos de control (ver pág. 57) / Controller devices (see page 57)
Controleur d'equipe (voir page 57) / Steuergeräte (siehe seite 57)

71-3472-00-00 (1-10V)
71-3473-00-00 (DALI)

# Programas RGB / RGB Programs / Programmes RGB / RGB Programme

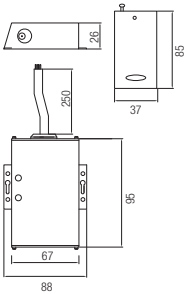
## Controladores RGB con mando a distancia / RGB controllers with remote control
## Contrôleurs RVB avec télécommande / RGB-Regler mit Fernbedienung

Controlador de tiras led con 11 programas RGB predefinidos. Incorpora un mando a distancia por radio frecuencia.

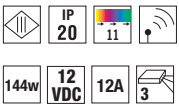
LED strip controller with 11 preset RGB programmes. Includes a radiofrequency (RF) remote control.

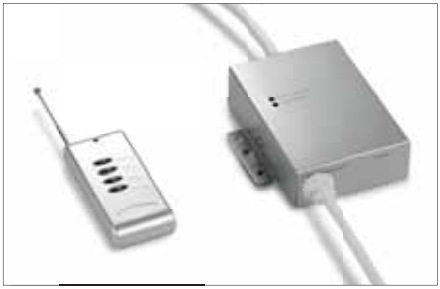
Contrôleur de bandes à diodes électroluminescentes avec 11 programmes RVB prédéfinis. Intègre une télécommande par fréquence radio.

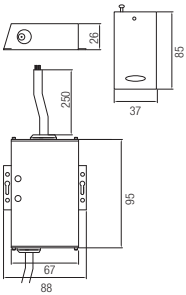
Regler für LED-Streifen mit 11 vordefinierten RGB-Programmen. Mit Fernbedienung über Funk.




| 71-3314-00-00 | 12v dc / 12v DC |
|---|---|






| 71-3431-00-00 | 12v dc / 12v DC |
|---|---|

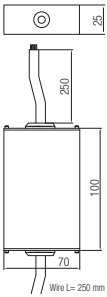
## Controladores RGB sin mando a distancia / RGB controllers without remote control
## Contrôleurs RVB avec sans télécommande / RGB-Regler ohne Fernbedienung

Controlador estático de tiras led con 11 programas RGB predefinidos.

Static LED strip controller with 11 preset RGB programmes

Contrôleur statique de bandes à diodes électroluminescentes avec 11 programmes RVB prédéfinis.

Statischer Regler für LED-Streifen mit 11 vordefinierten RGB-Programmen.




| 71-3432-00-00 | 12v dc / 12v DC |
|---|---|

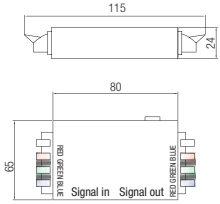
# Amplificador / Amplifier / Amplificateur / Verstärker

Amplificador del señal RGB enviado por el Controlador RGB. Su instalación nos permite controlar grandes instalaciones.

Amplifier for the RGB signal sent by the RGB Controller. This amplifier makes it possible to control large installations.

Amplificateur du signal RVB transmis par le contrôleur RVB. Son installation permet de contrôler de grandes installations.

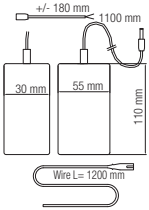
Verstärker des vom RGB-Regler gesandten RGB-Signals. Ermöglicht die Steuerung großer Anlagen.




| | |
|---|---|
| 71-3433-00-00 | 12v dc / 12v DC |

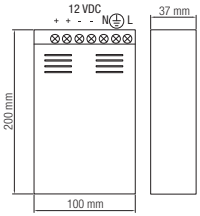
IP 20 | 144w | 12 VDC | 12A | 3

## Fuentes de alimentación / Power supply / Sources d'alimentation / Netzgeräte



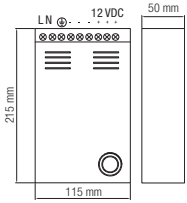

| | |
|---|---|
| 71-3435-00-00 | 100-240V AC/ 12v DC |

IP 20 | 72w | 12 VDC | 6A | 3




| | |
|---|---|
| 71-3436-00-00 | 110-240V AC/ 12v DC |

IP 20 | 120w | 12 VDC | 10A | 2




| | |
|---|---|
| 71-3437-00-00 | 100-240V AC/ 12v DC |

IP 20 | 360w | 12 VDC | 30A | 3

## Combinaciones / Combinations / Combinaisons / Kombinationen

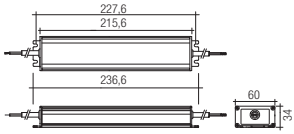
| FUENTE DE ALIMENTACIÓN /POWER SUPPLY SOURDE D'ALIMENTATION / NETZGERÄT | CONTROLADOR / CONTROLLER CONTRÔLEURS / REGLER |
|---|---|
| 71-3435-00-00 | 71-3314-00-00 |
| | |
| 71-3436-00-00 | 71-3431-00-00 |
| 71-3437-00-00 | |
| | |
| 71-3435-00-00 | 71-3432-00-00 |
| 71-3436-00-00 | |
| 71-3437-00-00 | |

Fuente alimentación de 100w a 12v con IP 67 para instalaciones en ambientes húmedos y exteriores.
An IP67-rated 100 W to 12 V power supply for installations in wet and outdoor environments.
Source d'alimentation de 100 watt à 12 V avec IP 67 pour les installations dans des environnements humides et en extérieur.
100W-Netzgerät. 12V, mit IP 67 für Anlagen in feuchten Umgebungen und im Freien.

| | |
|---|---|
| 71-3479-00-00 | 110-264VAC/ 12V DC |

IP 67 CE

100 W 12 VDC

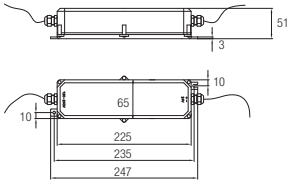


Fuente alimentación de 130w a 24v con IP 67para instalaciones en ambientes húmedos y exteriores.
An IP67-rated 130 W to 24 V power supply for installations in wet and outdoor environments.
Source d'alimentation de 130 watt à 24 V avec IP 67 pour les installations dans des environnements humides et en extérieur.
100W-Netzgerät, 24V, mit IP 67 für Anlagen in feuchten Umgebungen und im Freien.

| | |
|---|---|
| 71-3480-00-00 | 220-240VAC/ 24V DC |

IP 67 CE

130 W 24 VDC






# Lineal

## Perfil de aluminio para Rand, Sigma y Zenit / Aluminium profile for Rand, Sigma and Zenit / Perfil en aluminium pour Rand, Sigma y Zenit / Aluminiumprofil für Rand, Sigma und Zenit

Perfil de 2m, minimalista y perfecto para proteger las tiras de leds. Incorpora un difusor de PMMA y clips de sujeción.

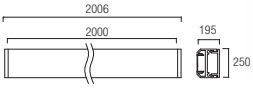
A minimalist 2 m profile, perfect for protecting LED strips. Includes a PMMA diffuser and fastening clips.

Profil de 2 m, minimaliste et adapté à la protection des bandes à diodes électroluminescentes. Intègre un diffuseur de PMMA et des attaches pour la fixation.

2 M Profil, minimalistisch und ideal zum Schutz der LED-Bänder. Mit PMMA-Diffusor und Halteclips.

ALU ANOD UVA PMMA

| Acabados Finishes | |
|---|---|
| ● | 71-3454-54-M2 |



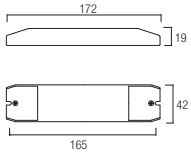
# Equipos de control / Device controllers / Controleur d'equipe / Regler

Controlador dimable de 1-10v. Permite el control de intensidad lumínica de una instalación de luz blanca mediante un regulador de 1-10v analógica.

Dimmable 1-10 V controller. Controls the light intensity of a white light installation using an analogue 1-10 V dimmer.

Contrôleur réglable de 1-10 V. Permet le contrôle de l'intensité de lumière d'une installation à lumière blanche à travers un régulateur de 1-10 V analogique.

Dimmbarer Regler von 1-10V. Ermöglicht die Regelung der Lichtstärke einer Weißlichtanlage über einen analogen Regler von 1-10V.



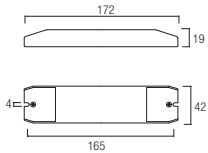

| 1-10V | |
|---|---|
| 71-3472-00-00 | 10-24VDC / 10-24VDC |

Controlador DALI. Permite el control de intensidad lumínica de una instalación de luz blanca mediante DALI.

DALI controller. Controls the light intensity of a white light installation using the DALI interface.

Contrôleur DALI. Permet le contrôle de l'intensité de lumière d'une installation à lumière blanche à travers un dispositif

DALI-Regler Ermöglicht die Regelung der Lichtstärke einer Weißlichtanlage über DALI.



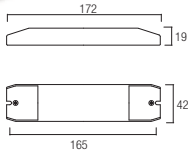

| DALI | |
|---|---|
| 71-3473-00-00 | 10-24VDC / 10-24VDC |

Controlador DMX. Permite el control de una instalación de luminarias RGB con el protocolo DMX.

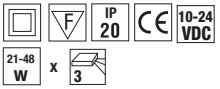
DMX controller. Controls an RGB light fitting installation using the DMX protocol.

Contrôleur DMX. Permet le contrôle d'une installation d'éclairage RVB par le biais du protocole DMX.

DMX-Regler. Ermöglicht die Regelung einer RGB-Leuchtanlage mit dem DMX-Protokoll.




| DMX | |
|---|---|
| 71-3474-00-00 | 10-24VDC / 10-24VDC |



# Drivers

## 350 mA

| | | |
|---|---|---|
| ACT-0803-00-00 | 100-240V AC / 350 mA | 60 x 35 x 21 |

IP 20 | CE | 3w

| | | |
|---|---|---|
| ACT-0804-00-00 | 100-240V AC / 350 mA | 77,5 x 34 x 21,5 |

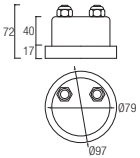
IP 20 | CE | 4w

| | | |
|---|---|---|
| ACT-0808-00-00 | 100-240V AC / 350 mA | 122 x 38 x 28 |

IP 20 | CE | 8w

| | | |
|---|---|---|
| ACT-0816-00-00 | 100-240V AC / 350 mA | 123,5 x 79 x 21 |

IP 20 | CE | 18w




Driver de 10w a 350mA con IP 68 para instalaciones en ambientes húmedos y exteriores.
An IP68-rated 10 W to 350 mA driver for installations in wet and outdoor environments.
Driver de 10 watt à 350 mA avec IP 68 pour les installations dans des environnements humides et en extérieur.
10W-Treiber, 350mA, mit IP 68 für Anlagen in feuchten Umgebungen und im Freien.

| | |
|---|---|
| 71-3477-00-00 | 110-240V AC / 350mA |

IP 68 | CE | 10w

## 500 mA

| | | |
|---|---|---|
| 71-3309-00-00 | 110-240V AC / 500 mA | 37 x 28 x 110 |

IP 20 | 16w

# Accesorios / *Accessories*

| |
|---|
| Caja de conexiones<br>*Multipurpose connexion box* |
| 71-9400-34-34 |

| |
|---|
| Caja de conexiones estanca<br>*Water proof connexion box* |
| 71-9199-05-05 |

| |
|---|
| Conector IP 68 2 vías 3 polos completo<br>*IP 68 connection 2 ways 3 wires complete* |
| 71-9397-05-05 |

| |
|---|
| Conector IP 68 3 vías forma "T" 3 polos.<br>*IP 68 connection 3 ways T shape x 3 wires.* |
| 71-9396-05-05 |

# 700 mA

| | | |
|---|---|---|
| 71-3305-00-00 | 100-240V AC / 700 mA | 39 x 20 x 56 |

IP 20 | CE | 3w

| | | |
|---|---|---|
| 71-3306-00-00 | 100-240V AC / 700 mA | 39 x 20 x 65 |

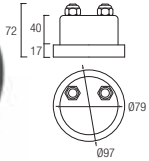
IP 20 | CE | 4w

| | | |
|---|---|---|
| 71-3307-00-00 | 100-240V AC / 700 mA | 34 x 19 x 115 |

IP 20 | CE | 12w

| | | |
|---|---|---|
| 71-3308-00-00 | 220-240V AC / 700 mA | 38 x 28 x 130 |

IP 20 | CE | 18w




Driver de 17w a 700mA con IP 68 para instalaciones en ambientes húmedos y exteriores.
An IP68-rated 17 W to 700mA driver for installations in wet and outdoor environments.
Driver de 17 watt à 700mA avec IP 68 pour les installations dans des environnements humides et en extérieur.
17W-Treiber, 700mA, mit IP 68 für Anlagen in feuchten Umgebungen und im Freien.

| | |
|---|---|
| 71-3478-00-00 | 100-240V AC / 700 mA |

IP 68 | CE | 17w

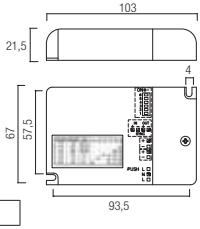
# 350 mA / 500 mA / 700 mA

Driver que permite regular la intensidad lumínica de las luminarias con intensidad constante. La señal de entrada puede ser 1-10v analógica o tecnología PUSH y la señal de salida es PWM. El mismo driver puede trabajar a 350mA, 500mA y 700mA.

A driver that regulates the light intensity of light fittings to maintain a constant intensity. The input signal can be 1-10 V analogue or PUSH technology, and the output signal is PWM. The same driver can operate at 350 mA, 500 mA and 700 mA.

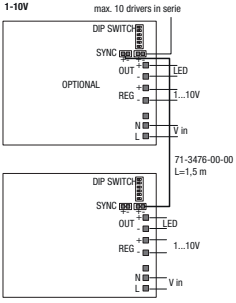
Driver qui permet de réguler l'intensité de lumière des éclairages à intensité constante. Le signal en entrée peut être de 1-10 V, analogique ou de technologie PUSH ; le signal en sortie est un signal MLI. Le même driver peut fonctionner à 350 mA, 500 mA et 700 mA.

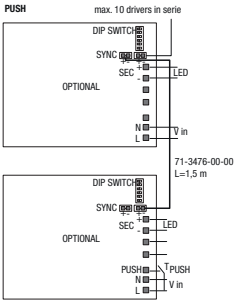
Treiber zum Regulieren der Lichtstärke der Leuchten mit konstanter Lichtstärke. Das Eingangssignal kann 1-10V analog sein oder die PUSH-Technologie verwenden, und das Ausgangssignal ist PWM. Der gleiche Treiber kann bei 350mA, 500mA und 700mA eingesetzt werden.




| | | |
|---|---|---|
| 71-3475-00-00 | 100-240V AC | |

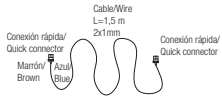
IP 20 | 1...10V | PUSH | CE




Cable de 1,5m para sincronización, servido separadamente
1.5 m cable for synchronising slave regulators
Câble de 1,5 m pour la synchronisation des régulateurs esclaves.
Kabel 1,5 m für die Synchronisierung von Slave-Reglern.

| Cable | |
|---|---|
| 71-3476-00-00 | 1,5 m |




## DRIVER REGULABLE - 71-3475

- Regulación de la luz de 10 a 100% con la función PUSH.
  - Pulsación corta – apagado y encendido
  - Pulsación larga – incrementa o reduce la intensidad de la luz
  - La regulación se para automáticamente al mínimo y máximo.
- Longitud máxima de 15m de cable desde pulsador al último driver.
- Máximo de 10 drivers en serie controlados por uno o varios pulsadores.
- Protección contra cortocircuitos y subidas de tensión.

## DIMMABLE DRIVER - 71-3475

– Light regulation from 0 to 100% using the PUSH function.
  - Short push for on and off.
  - Longer push to increase or decrease light intensity.
  - Regulation automatically stops at the minimum and maximum values.
– Maximum length of the cable is 15 m from push button to last driver.
– Maximum 10 drivers in series, controlled by one or more push buttons.
– Protection from short circuits and power surges.
– 1.5 m synchronisation cable supplied separately (71-3476).

## DRIVER RÉGLABLE - 71-3475

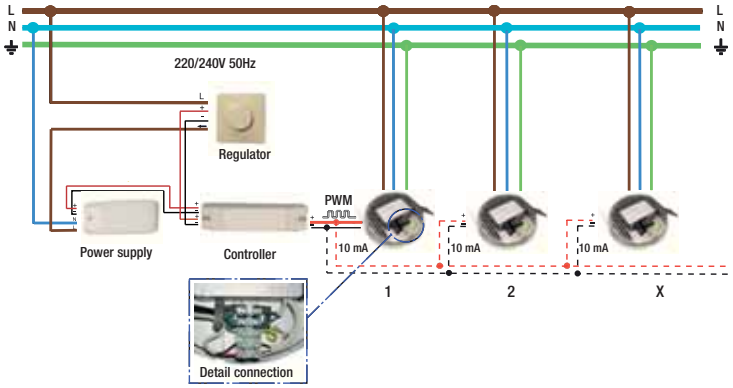
– RéglaGE de la lumière de 0 à 100 % grâce à la fonction PUSH.
  - Simple pression : mise à l'arrêt et en marche.
  - Pression maintenue : augmente ou réduit l'intensité de la lumière.
  - Le réglage s'arrête automatiquement au minimum et au maximum.
– Câble de 15 m maximum entre l'interrupteur et le dernier driver.
– 10 drivers maximum branchés en série et contrôlés par un ou plusieurs interrupteurs.
– Dispositif de protection contre les courts-circuits et les sautes de tension.
– Câble de 1,5 m pour la synchronisation, non fourni (71-3476)

## REGULIERBARER TREIBER - 71-3475

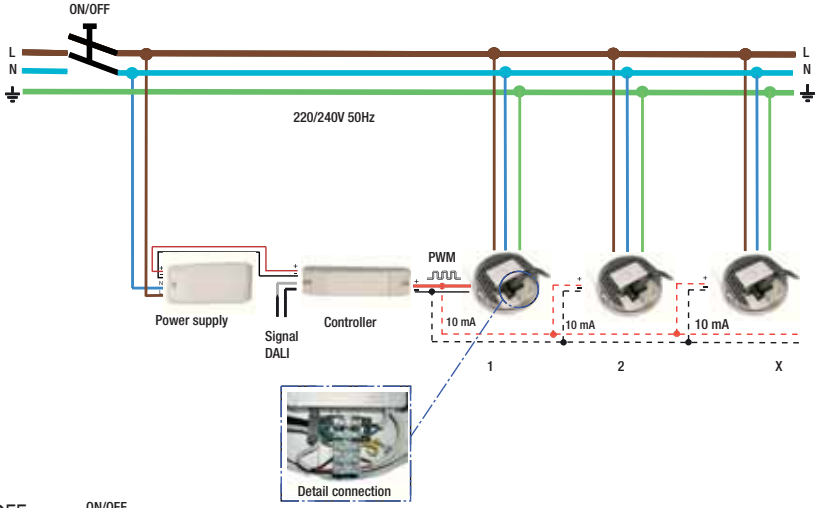
– Lichtregulierung von 0 bis 100 % mit PUSH-Funktion.
  - Kurz drücken - Ein- und Ausschalten
  - Lang drücken - Erhöhen oder Reduzieren der Lichtstärke
  - Die Regulierung stoppt automatisch beim Minimum und Maximum.
– Maximal 15 m Kabel vom Taster bis zum letzten Treiber.
– Maximal 10 Treiber in Reihe zur Regulierung durch einen oder mehrere Taster.
– Schutz gegen Kurzschlüsse und Spannungsspitzen.
– Kabel 1,5 m für die Synchronisierung, getrennt lieferbar (71-3476)

ESQUEMA INSTALACIÓN DE SOUND / SOUND INSTALLATION DIAGRAM / SCHÉMA D'INSTALLATION DE SOUND / INSTALLATIONSANLEITUNG FÜR SOUND.

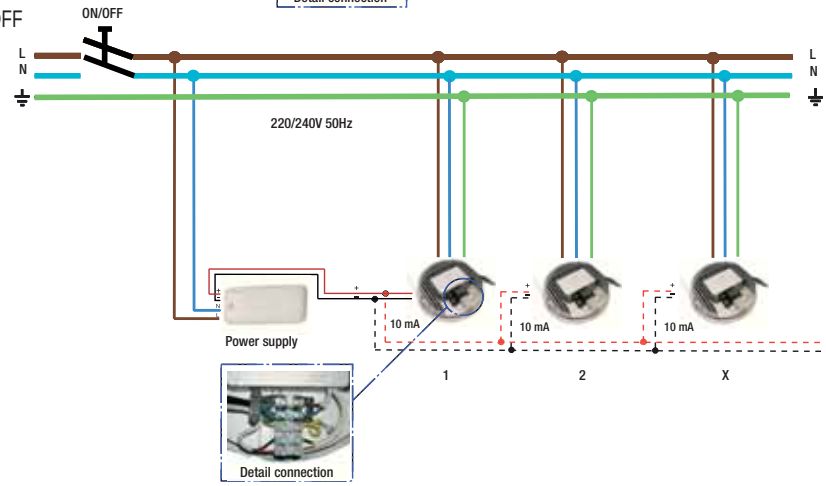
1-10V




DALI

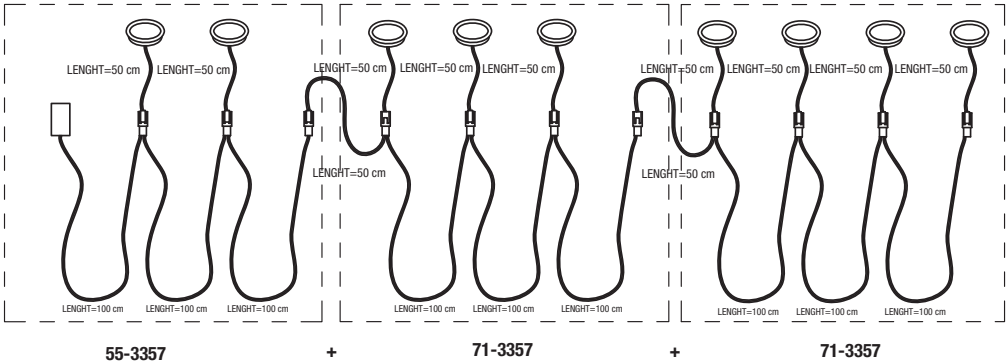



ON /OFF



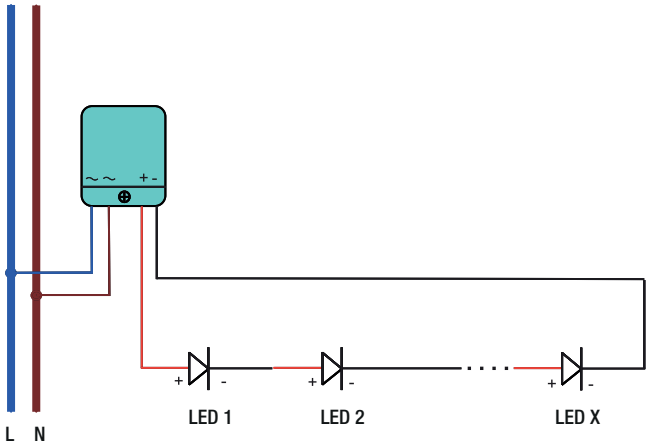
ESQUEMA INSTALACIÓN DE THIN / THIN INSTALLATION DIAGRAM /
SCHÉMA D'INSTALLATION DE THIN / INSTALLATIONSANLEITUNG FÜR THIN

## KIT THIN SERIE (3 x 0,5W)



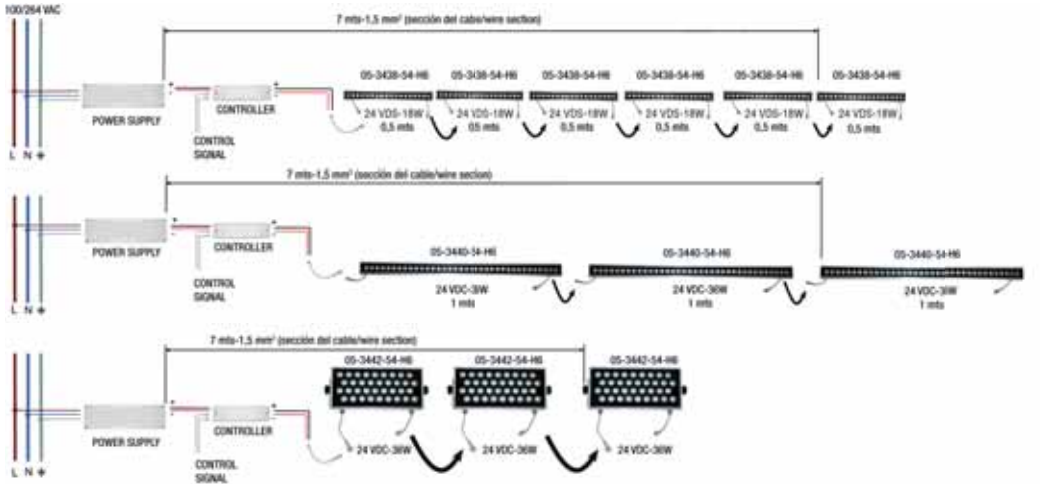



ESQUEMA INSTALACIÓN DE CREE / CREE INSTALLATION DIAGRAM /
SCHÉMA D'INSTALLATION DE CREE / CREE PER INSTALLATIONSANLEITUNG FÜR CREE.

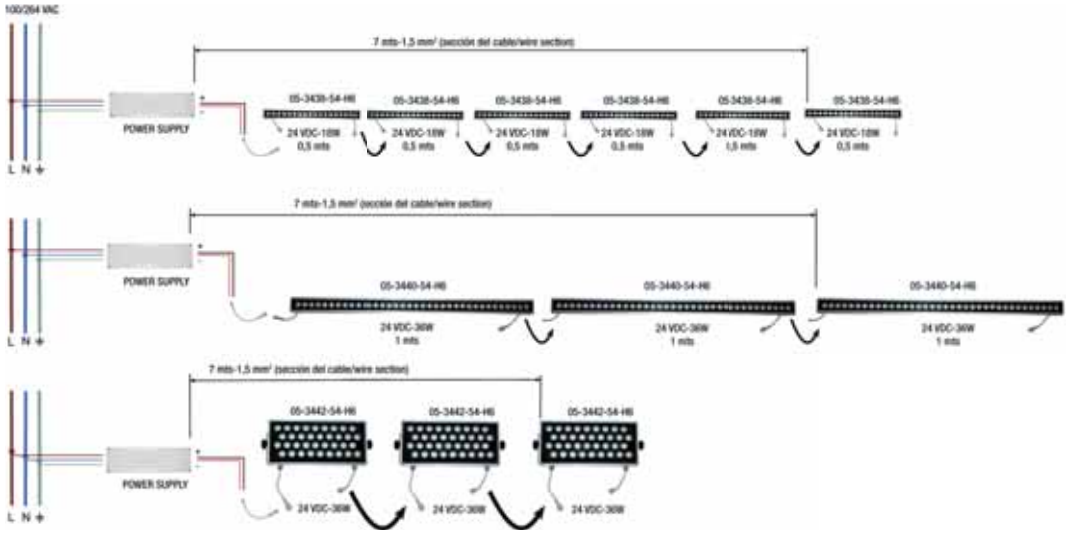


ESQUEMA INSTALACIÓN DE TRON Y RAY / TRON AND RAND INSTALLATION DIAGRAM / SCHÉMA D'INSTALLATION DE TRON ET RAY / INSTALLATIONSANLEITUNG FÜR TRON UND RAY

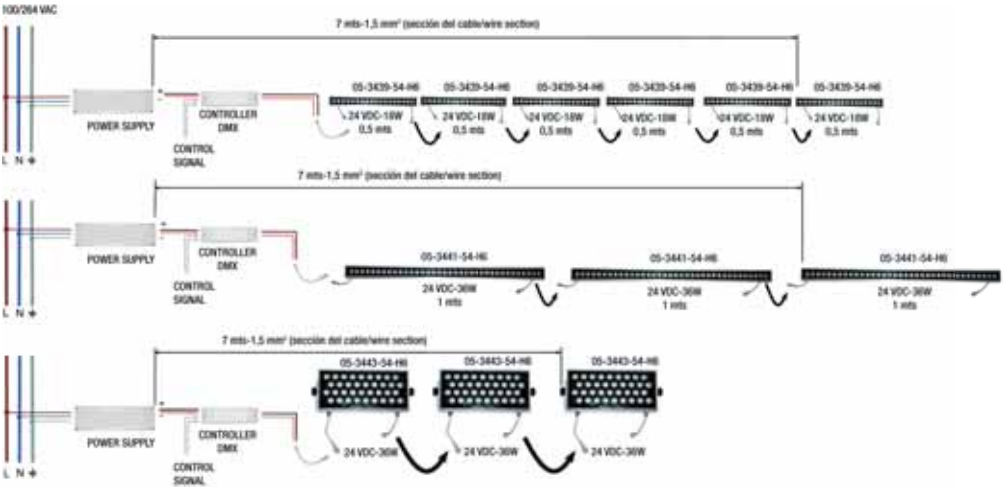
Blanco DALI-1-10V-regulable / White DALI-1-10V
Blanc DALI-1-10V / Weiß DALI – 1-10V dimmbar




Blanco sin regulación / White without regulation
Blanc sans regulation / Weiß nicht dimmbar



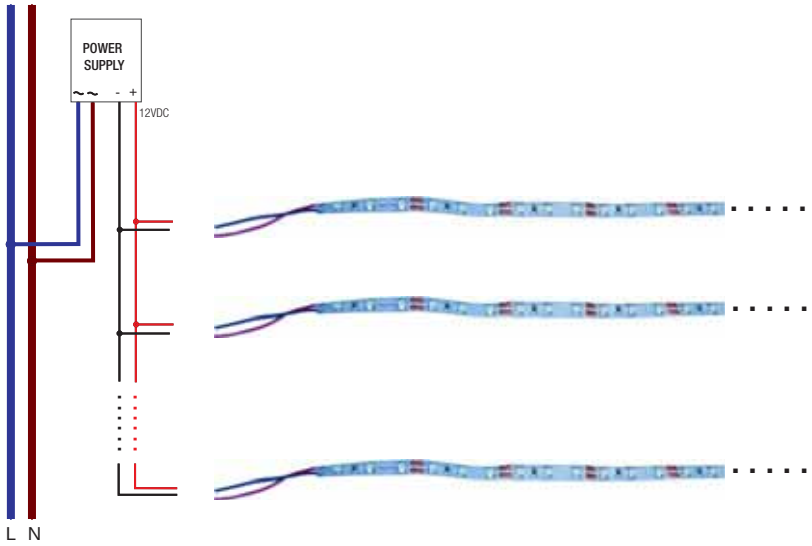
RGB / RGB




ESQUEMA INSTALACIÓN DE RAND, ION Y SIGMA / RAND, ION AND SIGMA INSTALLATION DIAGRAM / SCHÉMA D'INSTALLATION DE RAND-ION ET SIGMA / INSTALLATIONSANLEITUNG FÜR RAND-ION UND SIGMA

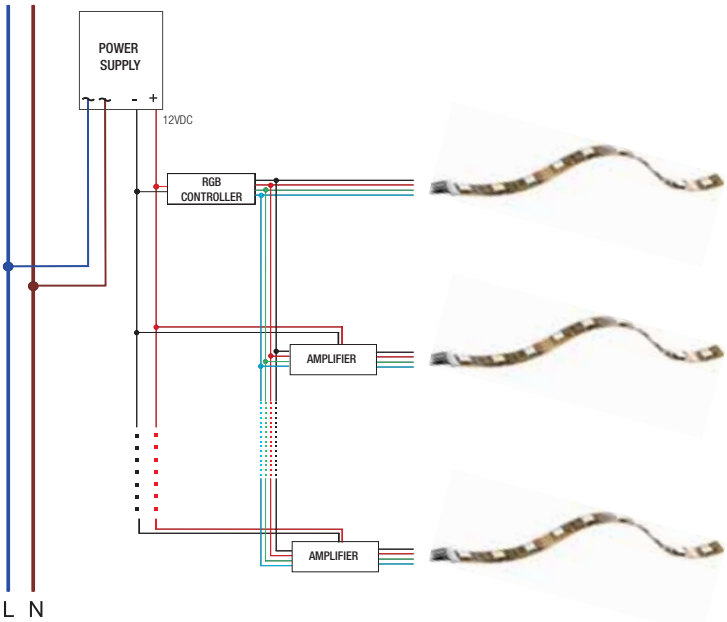
Esquema instalación tipo Blancos / Installation diagram for white color

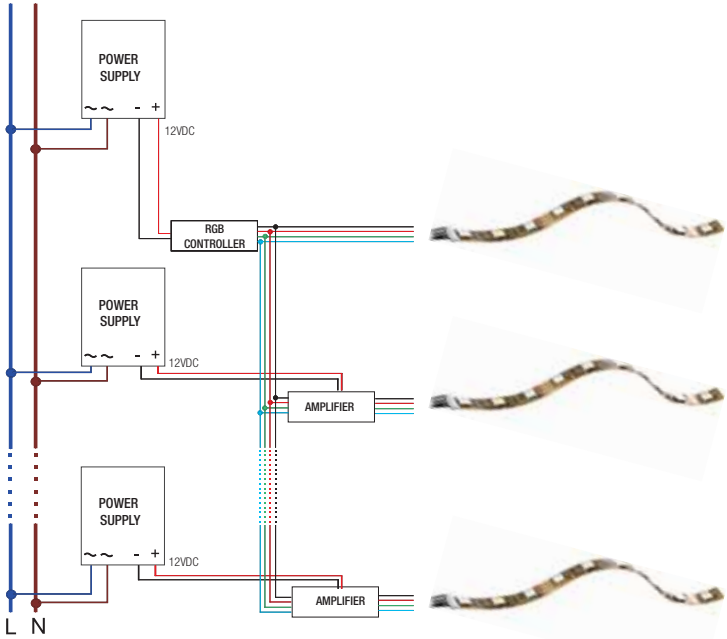
Schéma d'instalation type blanc / Installationsanleitung typ weiß



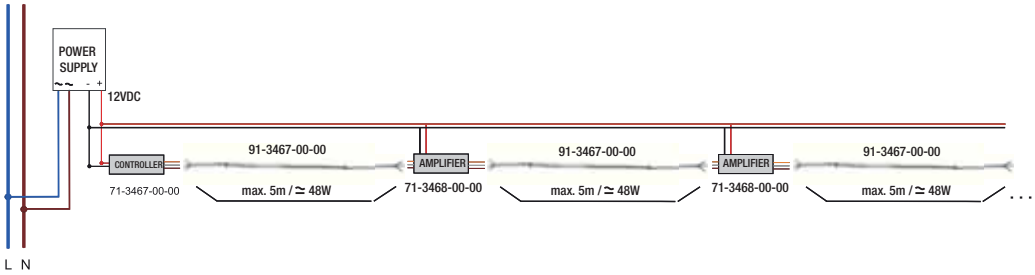
ESQUEMA INSTALACIÓN DE RAND-ION / RAND AND ION INSTALLATION DIAGRAM / SCHÉMA D'INSTALLATION DE RAND-ION / INSTALLATIONSANLEITUNG FÜR RAND-ION.

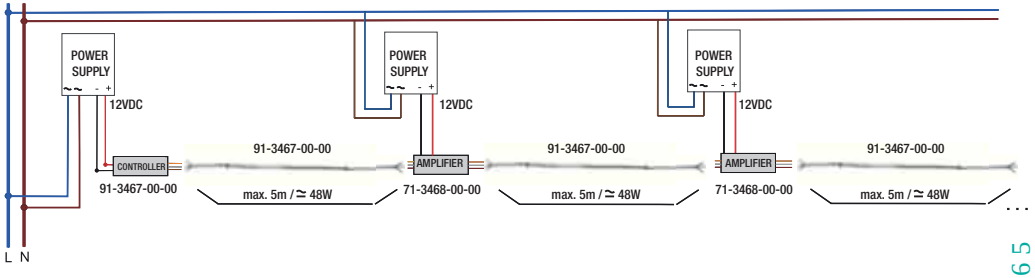
Esquema tipo RGB / Installation diagram for RGB
Schéma d'insatalation type RGB / Installationsanleitung typ RGB

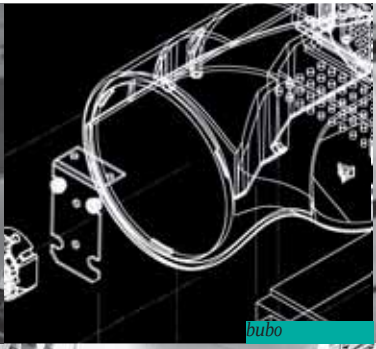


ESQUEMA INSTALACIÓN DE ZENIT/ ZENIT INSTALLATION DIAGRAM /
SCHÉMA D'INSTALLATION DE ZENIT/ INSTALLATIONSANLEITUNG FÜR ZENIT

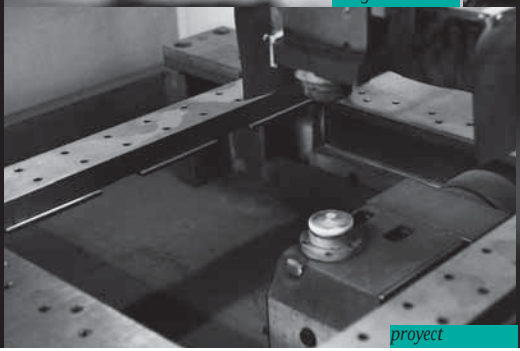




bubo

design

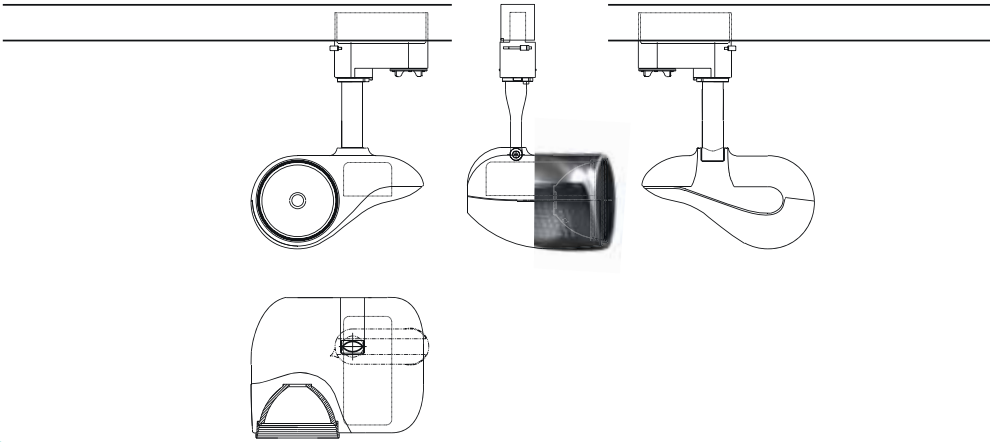


proyect

# / ARCHITECTURAL /

# /BUBO/

Design by:
RAMON BENEDITO





## DESCRIPCIÓN / *DESCRIPTION*

**Bubo es nuestra gama de proyectores técnicos para escenificación. Muy apta para cualquier entorno que requiera iluminaciones dirigidas y flexibles. La posibilidad de incorporar un amplio surtido de lámparas lo convierten en una herramienta ideal para el escaparatismo.**
**Sus distintos haces de luz son ideales para el realce y la iluminación de acento y su suave línea lo convierte en una pieza fácil de integrar en cualquier entorno.**

*Bubo is our brand collection of technical spotlights for staging and shop windows. Suitable for any space where directional and flexible lighting is required.*
*Bubo can take a wide range of lamps which makes the collection an ideal tool for shop windows.*
*Its different beam angles are ideal to bring out accent lighting and its soft shapes make its integration in any environment just effortless.*

**El proyector permite una gran flexibilidad de movimientos y de distintas orientaciones para conseguir diferentes efectos escenográficos.**

*The spotlight allows different orientations to facilitate the creation of different scenographic effects.*

**La rotación del proyector en el eje horizontal es de 355º y en el eje vertical de 112º.**

*The orientation system allows different adjustments: 355º rotation and 112º tilt.*

**El proyector dispone de orificios dispuestos estratégicamente para garantizar el correcto flujo de ventilación por convección. El equipo de funcionamiento está alojado en una cavidad independiente para asegurar el aislamiento térmico apropiado de éste y el correcto funcionamiento de la lámpara.**
**Fácil reposición de la lámpara mediante el simple giro y extracción del elemento frontal de cierre. No requiere herramientas.**

*The spotlight holds strategically located cavities to guarantee the correct flow of ventilation. The control gear is allocated in a separated space to ensure its thermal isolation and the correct ventilation inside the spotlight. The lamp can easily be replaced without tools by turning and extracting the front closure.*

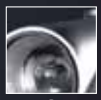
# /BUBO/

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

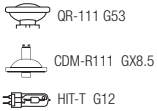
Blanco / *White*

Negro / *Black*



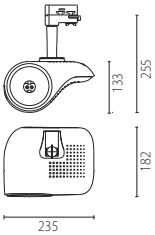
Gris / *Grey*

Proyector orientable compacto con adaptador para instalación en raíl trifásico.
Adjustable compact Spotlight for 3 phase track mounting.




CE | F | IP 20 | RF 850ºc | 0,5m | 355º | 22º 90º | 230 Volt. | .IES

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|
| PR-0906-14-00 | ○ | QR-111 G53 | max. 100W | _ | Elect. inc | 3C | 09-14 |
| PR-0906-60-00 | ● | QR-111 G53 | max. 100W | _ | | | 09-14 |
| PR-0906-N3-00 | ● | QR-111 G53 | max. 100W | _ | | | 09-14 |
| PR-0907-14-00 | ○ | CDM-R111 GX8.5 | 35W | _ | | | 15-17 |
| PR-0907-60-00 | ● | CDM-R111 GX8.5 | 35W | _ | | | 15-17 |
| PR-0907-N3-00 | ● | CDM-R111 GX8.5 | 35W | _ | | | 15-17 |
| PR-0908-14-00 | ○ | CDM-R111 GX8.5 | 70W | _ | | | 15-17 |
| PR-0908-60-00 | ● | CDM-R111 GX8.5 | 70W | _ | | | 15-17 |
| PR-0908-N3-00 | ● | CDM-R111 GX8.5 | 70W | _ | | | 15-17 |
| PR-0909-14-00 | ○ | HIT-T G12 | 35W | 10° | | | 87 |
| PR-0909-60-00 | ● | HIT-T G12 | 35W | 10° | | | 87 |
| PR-0909-N3-00 | ● | HIT-T G12 | 35W | 10° | | | 87 |
| PR-0910-14-00 | ○ | HIT-T G12 | 35W | 45° | | | 88 |
| PR-0910-60-00 | ● | HIT-T G12 | 35W | 45° | | | 88 |
| PR-0910-N3-00 | ● | HIT-T G12 | 35W | 45° | | | 88 |
| PR-0911-14-00 | ○ | HIT-T G12 | 70W | 10° | | | 89 |
| PR-0911-60-00 | ● | HIT-T G12 | 70W | 10° | | | 89 |
| PR-0911-N3-00 | ● | HIT-T G12 | 70W | 10° | | | 89 |
| PR-0912-14-00 | ○ | HIT-T G12 | 70W | 45° | | | 90 |
| PR-0912-60-00 | ● | HIT-T G12 | 70W | 45° | | | 90 |
| PR-0912-N3-00 | ● | HIT-T G12 | 70W | 45° | | | 90 |






## ACCESORIOS ES.
## ACCESSORIES

Base para montaje en superficie.
Base for surface mounting.

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9105-14-00 | ○ |
| ACT-9105-60-00 | ● |
| ACT-9105-N3-00 | ● |

Caja para empotrar.
Recessed box.

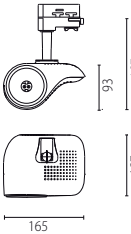
| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9106-14-00 | ○ |
| ACT-9106-60-00 | ● |
| ACT-9106-N3-00 | ● |

Proyector orientable compacto con adaptador para instalación en raíl trifásico.
Adjustable compact Spotlight for 3 phase track mounting.

QR-CBC51 GU5.3

CDM-Tm PGJ5

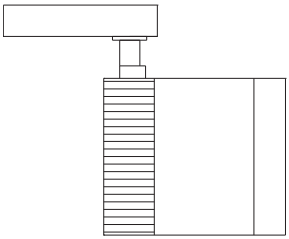
IP 20 | RF 850ºc | 0,5m | 355º | 22º 90º | 230 Volt. | .IES




| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|
| **PR-0901-14-00** | ○ | QR-CBC51 GU5.3 | max. 50W | _ | Elect. inc | 3C | * |
| **PR-0901-60-00** | ● | QR-CBC51 GU5.3 | max. 50W | _ | | | * |
| **PR-0901-N3-00** | ● | QR-CBC51 GU5.3 | max. 50W | _ | | | * |
| **PR-0902-14-00** | ○ | CDM-Tm PGJ5 | 20W | 10° | | | * |
| **PR-0902-60-00** | ● | CDM-Tm PGJ5 | 20W | 10° | | | * |
| **PR-0902-N3-00** | ● | CDM-Tm PGJ5 | 20W | 10° | | | * |
| **PR-0903-14-00** | ○ | CDM-Tm PGJ5 | 20W | 45° | | | * |
| **PR-0903-60-00** | ● | CDM-Tm PGJ5 | 20W | 45° | | | * |
| **PR-0903-N3-00** | ● | CDM-Tm PGJ5 | 20W | 45° | | | * |

(*) Consultar
(*) Consult

# /MACH1/



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo en aluminio extruido, acabado en color gris/plata. Disipador trasero y aro frontal en aluminio inyectado acabado en negro.**
**Versiones para lámpara de baja tensión con transformador electrónico incorporado en el cuerpo del proyector.**
**Versiones para lámpara HIT-T con el equipo de funcionamiento electrónico integrado en caja que actúa, también, como elemento de fijación. Estas versiones incluyen un reflector en aluminio anodizado de alta pureza disponible en dos versiones: óptica intensiva (10º) o semi-extensiva (45º).**
**Apto para instalación en carril trifásico o montaje superficial.**

*Extruded aluminium body powder painted in silver grey.*
*Back heat sink and front ring in die-cast aluminium, black finish.*
*Versions for low voltage lamp with integrated electronic transformer in the spotlight body.*
*Versions for HIT-T lamps with electronic gear integrated in box which also works as spotlight fixation element. These versions include a reflector available in two versions: spot (10º) or flood (45º).*
*Versions available for three phase track or surface mounting*

## APLICACIÓN / *APPLICATIONS*

**Gama especialmente diseñada para la integración y la polivalencia de aplicaciones como detalles arquitectónicos, escaparatismo, realce de objetos y creación de escenas de iluminación.**

*Specially designed for the integration and the variety of applications such as architectural highlighting, shop window lighting, objects highlighting and creation of lighting scenes.*

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Gris / *Grey*



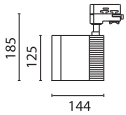


Proyector orientable para QR-111 y HIT-T

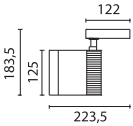
Adjustable spotlight for QR-111 or HIT -T

CE | F | IP 20 | RF 850ºc | 0,5m | 355º | 90º | .IES | QR-111 G53 | HIT-T G12

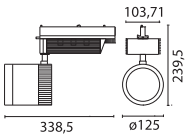
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **PR-0020-N3-00** | | QR-111 G53 | 230 | max.1x65W | _ | Elect. inc | 3C | 09-11 |



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **PR-0019-N3-00** | | QR-111 G53 | 230 | max.1x65W | _ | Elect. inc | | 09-11 |



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **PR-0383-N3-00** | | HIT-T G12 | 230 | 1x70W | 45º | Elect. inc | 3C | 82 |
| **PR-0385-N3-00** | | HIT-T G12 | 230 | 1x150W | 45º | | | 22 |



# /CARRILES
# TRACKS/





**DESCRIPCIÓN** / *DESCRIPTION*

**Carril electrificado trifásico para montaje en superficie o suspendido.**
**Construido en aluminio extruido acabado con pintura epoxi de color gris, negro o blanco.**
**Conductores eléctricos de cobre de 2,5 mm² de sección, aislados mediante PVC extruido.**
**El programa se completa con todos los accesorios de alimentación, interconexión, derivación, etc., necesarios para la correcta instalación del sistema. Dichos elementos se suministran en color negro o blanco.**

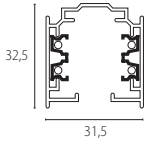
*Three-circuit track for surface or pendant mounting.*
*Extruded steel in grey, black or white powder painting finishing.*
*Electrical copper conductors with a 2.5 mm² section, isolated by extruded PVC.*
*The program is completed with all feeding, interconnection and derivation accessories, needed to properly install the system. Those elements are supplied in black or white colour.*

# /CARRILES / TRACKS/

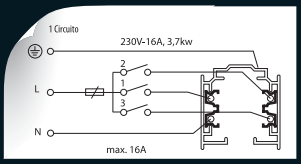
Gris / *Grey* Blanco / *White* Negro / *Black*

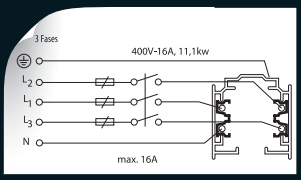
Carril trifásio.
Three-circuit track.

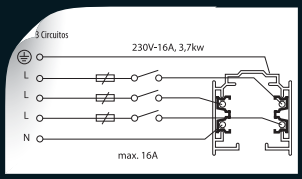
| CÓDIGO CODE | COLOR COLOUR | L (MM) |
|---|---|---|
| CR-0323-N3-00 | ● | 1000 |
| CR-0323-14-00 | ○ | 1000 |
| CR-0323-60-00 | ● | 1000 |
| CR-0324-N3-00 | ● | 2000 |
| CR-0324-14-00 | ○ | 2000 |
| CR-0324-60-00 | ● | 2000 |




## ESQUEMA DE CONEXIÓN/ CONNECTION SCHEMES




## CORTE DE LOS CARRILES.
TRACK CUTTING.

## ELEMENTOS DE FIJACIÓN Y ACCESORIOS/ INSTALLATIONS ACCESSORIES

TECHO
FALSE CEILING
Para piezas de fijación directa a falsos techos.
For direct mounting on false cilings.

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0333-N3-00 | ● |
| CR-0333-14-00 | ○ |

SUSPENSIÓN CON TOMA DE CORRIENTE
SUSPENSION WITH MAINS SUPPLY
Florón para cable
Canopy for cable
(1.300mm)

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0334-N3-00 | ● |
| CR-0334-14-00 | ○ |

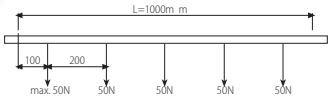
DOBLADO
CONDUCTOR BENDING
Herramienta de doblado
Ending tool needed after cutting the track

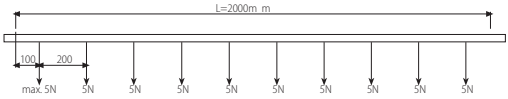
| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0335-00-00 | - |

SUSPENSIÓN
SUSPENSION
Sirga de acero
Steel cable
(1.300mm)

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0336-N3-00 | ● |
| CR-0336-14-00 | ○ |

## DISTANCIA RECOMENDADA ENTRE FIJACIONES/ ADVISED DISTANCE FOR FIXATIONS



### Acometida izquierda
Mains connector (left)

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0325-14-00 | ○ |
| CR-0325-60-00 | ● |

### Acometida derecha
Mains connector (right)

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0326-14-00 | ○ |
| CR-0326-60-00 | ● |

### Tapa final
End cap

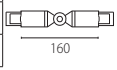
| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0327-14-00 | ○ |
| CR-0327-60-00 | ● |

### Conector continuidad
Straight connector

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0328-14-00 | ○ |
| CR-0328-60-00 | ● |

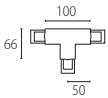
### Conector ajustable
Adjustable connector

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0329-14-00 | ○ |
| CR-0329-60-00 | ● |



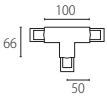

### Conector "T" izquierdo
"T" connector left

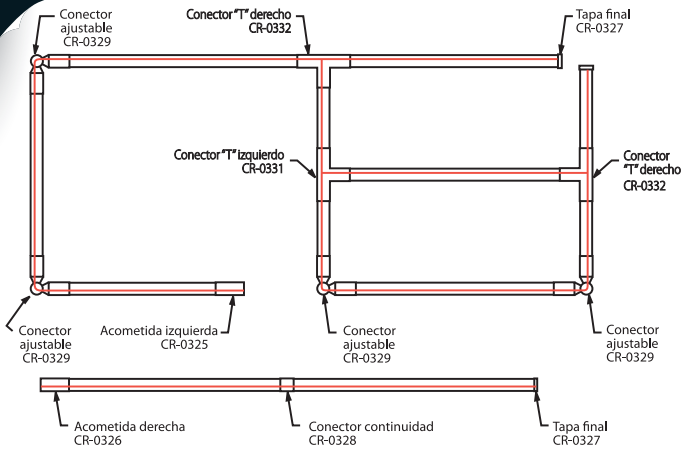
| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0331-14-00 | ○ |
| CR-0331-60-00 | ● |



### Conector "T" derecho
"T" connector right

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| CR-0332-14-00 | ○ |
| CR-0332-60-00 | ● |




## EJEMPLOS DE MONTAJE

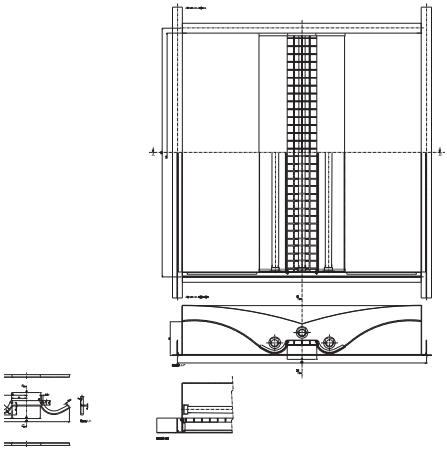
Los carriles están provistos de un nervio, en su parte inferior, que condiciona la posición de los elementos de conexión. A fin de garantizar la necesaria continuidad del conductor de tierra, algunos de estos elementos de conexión – acometida y "T" – deben ser seleccionados teniendo en cuenta este aspecto.

## MOUNTING EXAMPLES

Tracks have a nerve on their upper part, conditioning the position for earth connection. Some of the connections elements -live connections and "T"- must be selected to guarantee the necessary continuity of the earth conductor.

# /BORBOLETA/

Design by:
RAMON BENEDITO



Blanco / *White*

Gris / *Grey*

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

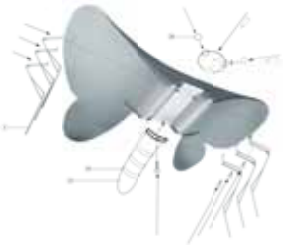
*See Photometric data on page 174 and equivalent lamps table on page 183.*



## DESCRIPCIÓN / *DESCRIPTION*

**Gama de luminarias fluorescentes para iluminación general. Innovación, excelente diseño, alto rendimiento lumínico, confort y suavidad de la luz emitida y variedad de aplicaciones convierten esta gama en la solución para los proyectos de iluminación con elevados requerimientos de calidad (tanto a nivel lumínico como a nivel de integración arquitectónica y decorativa).**

*Fluorescent luminaires range for general lighting.*
*Innovation, excellent design and finishings, quality of all materials used, high efficiency, comfort and variety of applications, convert this range into the ideal solution for all projects with high quality requirements, both on a lighting level and a decorative and architectonic integration level.*

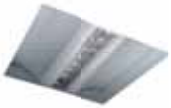


Luminaria empotrable para iluminación general en falsos techos de perfil visto.
Recessed luminaire for general lighting on false ceiling with visible profile.

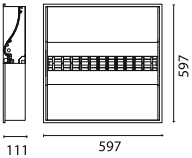
IP 20 | RF 850ºc | 0,2m | .IES

TL5 G5

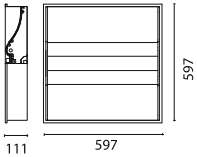
Lámpara color 840 incluida.
840 colour lamp included.



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|
| EP-0612-14-B9 | ○ | TL5 G5 | 3x14W | _ | Elect. inc | | 97 | standard |
| EP-0614-14-B9 | ○. | TL5 G5 | 3x24W | _ | | | 99 | standard |
| EP-0620-14-B9 | ○ | TL5 G5 | 3x14W | _ | | | 97 | regul./dimm. 1...10V |
| EP-0622-14-B9 | ○ | TL5 G5 | 3x24W | _ | | | 99 | regul./dimm. 1...10V |
| EP-0628-14-B9 | ○ | TL5 G5 | 3x14W | _ | | | 97 | DALI/ PUSH PULL |
| EP-0630-14-B9 | ○ | TL5 G5 | 3x24W | _ | | | 99 | DALI/ PUSH PULL |
| EP-0636-14-B9 | ○ | TL5 G5 | 3x14W | _ | | | 97 | emergency 1H |
| EP-0640-14-B9 | ○ | TL5 G5 | 3x24W | _ | | | 99 | emergency 1H |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| EP-0613-14-B9 | ○ | TL5 G5 | 2x14W | _ | Elect. inc | | 98 | standard |
| EP-0615-14-B9 | ○ | TL5 G5 | 2x24W | _ | | | 100 | standard |
| EP-0621-14-B9 | ○ | TL5 G5 | 2x14W | _ | | | 98 | regul./dimm. 1...10V |
| EP-0623-14-B9 | ○ | TL5 G5 | 2x24W | _ | | | 100 | regul./dimm. 1...10V |
| EP-0629-14-B9 | ○ | TL5 G5 | 2x14W | _ | | | 98 | DALI/ PUSH PULL |
| EP-0631-14-B9 | ○ | TL5 G5 | 2x24W | _ | | | 100 | DALI/ PUSH PULL |
| EP-0637-14-B9 | ○ | TL5 G5 | 2x14W | _ | | | 98 | emergency 1H |
| EP-0641-14-B9 | ○ | TL5 G5 | 2x24W | _ | | | 100 | emergency 1H |



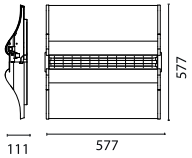

Luminaria adosable para iluminación general.
Surface luminaire for general lighting.

IP 20 | RF 850ºc | 0,2m | .IES

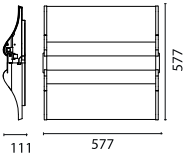
TL5 G5

Lámpara color 840 incluida.
840 colour lamp included.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|
| AD-0616-N3-00 | ● | TL5 G5 | 3x14W | _ | Elect. inc | | 93 | standard |
| AD-0618-N3-00 | ● | TL5 G5 | 3x24W | _ | | | 95 | standard |
| AD-0624-N3-00 | ● | TL5 G5 | 3x14W | _ | | | 93 | regul./dimm. 1...10V |
| AD-0626-N3-00 | ● | TL5 G5 | 3x24W | _ | | | 95 | regul./dimm. 1...10V |
| AD-0632-N3-00 | ● | TL5 G5 | 3x14W | _ | | | 93 | DALI/ PUSH PULL |
| AD-0634-N3-00 | ● | TL5 G5 | 3x24W | _ | | | 95 | DALI/ PUSH PULL |

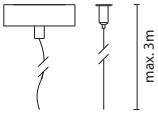


| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AD-0617-N3-00 | ● | TL5 G5 | 2x14W | _ | Elect. inc | | 94 | standard |
| AD-0619-N3-00 | ● | TL5 G5 | 2x24W | _ | | | 96 | standard |
| AD-0625-N3-00 | ● | TL5 G5 | 2x14W | _ | | | 94 | regul./dimm. 1...10V |
| AD-0627-N3-00 | ● | TL5 G5 | 2x24W | _ | | | 96 | regul./dimm. 1...10V |
| AD-0633-N3-00 | ● | TL5 G5 | 2x14W | _ | | | 94 | DALI/ PUSH PULL |
| AD-0635-N3-00 | ● | TL5 G5 | 2x24W | _ | | | 96 | DALI/ PUSH PULL |




Kit suspensión/ Suspension kit.

| CÓDIGO CODE | COLOR COLOUR | DESCRIPCIÓN DESCRIPTION |
|---|---|---|
| ACT-9046-N3-00 | ● | Kit suspensión + 4 sirgas / *Suspension Kit + 4 steel cables* |




Para versión suspendida solicitar luminaria + kit suspensión.
For suspended version, order luminaire + suspension kit.

Luminaria para empotrar en falsos techos de perfil vistos , montaje en superficie o de suspensión regulable en altura. También disponible en versión regulable 1…10V y DALI/ PUSH-PULL, con la posibilidad de incluir en las versiones empotrables un KIT para ALUMBRADO DE EMERGENCIA.
Cuerpo en chapa metálica pintada en blanco con pintura epoxi resistente a la corrosión.
Sistema óptico desarrollado para proporcionar una iluminación suave y un alto rendimiento:
- la versión de 2 lámparas tiene, en la parte central, un difusor translúcido
- la versión de 3 lámparas tiene, en la parte central, una óptica de baja luminancia en aluminio anodizado de muy alta pureza para una adecuada iluminación directa.
Disponible para 2 ó 3 lámparas fluorescentes TL5 de 14 ó 24W y suministradas completas con equipo de funcionamiento electrónico y lámparas de color 840 (para otros colores consultar).

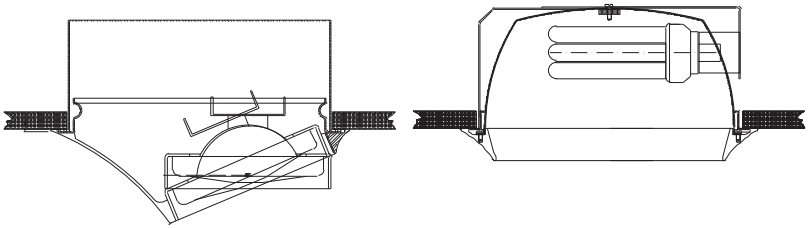
*Luminaire for recessed mounting on visible profile false ceilings, surface mounting or suspended. Dimmable 1…10V and DALI/ PUSH-PULL versions also available. The recessed versions offer the possibility to include an emergency lighting kit.*
*Housing made of steel sheet finished with white epoxi painting.*
*Optical system developed to provide a soft and high efficiency lighting:*
*- two lamps version has, in the central part, one translucent diffuser*
*- three lamps version has, in the central part, one anodised aluminium low luminance optic for an adequate direct lighting of the third lamp.*
*Available for 2 or 3 TL5 14W or 24W fluorescent lamps and delivered complete with electronic gear and lamps (840 colour – for other colours please consult).*

**Luminarias especialmente diseñadas para proporcionar una luz suave y un alto rendimiento libre de deslumbramientos. Especialmente indicadas para ser utilizadas en cualquier proyecto de iluminación general – tiendas, centros comerciales, oficinas, despachos, hoteles - donde el confort visual y la excelente calidad de los productos sean los principales requerimientos.**

*Luminaires specially designed to provide a soft light and a high efficiency without disturbing glare. Specially indicated to be used in any general lighting project – shops, commercial centres, office buildings, office cells, hotels – where visual comfort and excellent quality and design of the products are the main requirements.*

# /CAMALEON/

Design by:
ESTUDI RIBAUDI





## DESCRIPCIÓN / *DESCRIPTION*

**Camaleon es una serie de apliques empotrables multifunción. Ha sido concebida para adaptarse perfectamente a su entorno.**
**Camaleon, en su acabado blanco mate, se ha desarrollado para integrarse cromáticamente en la superficie de instalación. La luminaria permite ser pintada con la misma pintura que usted usaría para colorear su pared o techo camuflándose así de forma perfecta en el ambiente.**
**Una nueva forma de concebir la iluminación.**

*Designed to achieve a perfect integration with the environment, a new range of recessed multifunction fittings is born under the name of Camaleon.*
*The matt white version has been developed to match chromatically with the mounting surface. Its external housing can be coloured with the same paint used on walls or ceilings matching perfectly with different atmospheres.*
*A new lighting concept is born.*

**La versión asimétrica, mediante un sistema de doble chasis interior, permite orientar la luminaria en un ángulo de 355º.**

*The asymmetric version, thanks to its internal double body, permits the orientation of the luminaire in 355º angle*

**Sobre el acabado blanco mate se ha aplicado un tratamiento específico que ofrece la posibilidad de emplear sobre el cuerpo de la luminaria la misma pintura plástica aplicada en el techo, de manera que quede perfectamente integrada en éste.**

*A specific treatment has been given to the matt white version offering the possibility of using on the luminaire the same plastic paint used on the ceiling in order to achieve a perfect integration among both.*

**El sistema basculante interior de la lámpara (60º) ofrece múltiples posibilidades de orientación y dota de gran versatilidad a la luminaria.**

*The internal adjustment system of the lamp (60º) offers multiple directional combinations and makes the luminary extremely versatile.*

# /CAMALEON/

Blanco / *White*

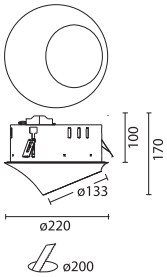
Anodizado plata/ *Anodized silver*

Luminaria empotrable asimétrica para iluminación de ambiente y/o acento.
Recessed asymmetric luminaire for ambient and/or accent lighting.

CE | F | IP 20 | RF 850ºc | 0,5m | 355º | 60º | .IES

QR-111 G53 | CDM-R111 GX8.5

| CÓDIGO CODE | COLOR COLOUR | LAMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | CLASE CLASS | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| **DN-1302-14-00** | ○ | QR-111 G53 | 12 | max. 100W | _ | III | Not inc | | 09-14 |
| **DN-1302-J2-00** | ◑ | QR-111 G53 | 12 | max. 100W | _ | III | | | 09-14 |
| **DN-1305-14-00** | ○ | CDM-R111 GX8.5 | 230 | max. 70W | _ | ⏚ | | | 15-20 |
| **DN-1305-J2-00** | ◑ | CDM-R111 GX8.5 | 230 | max. 70W | _ | ⏚ | | | 15-20 |

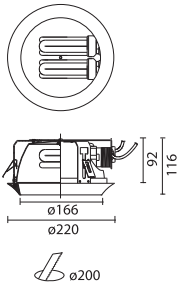



Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Luminaria empotrable asimétrica para iluminación general.
Recessed asymmetric luminaire for general lighting.

CE | F | ⏚ | IP 20 | RF 850ºc | 0,2m | .IES

TC-TELGX24q-3



| CÓDIGO CODE | COLOR COLOUR | LAMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-1301-14-00** | ○ | TC-TEL GX24q-3 | 230 | 2x26/32W | _ | Elect. inc | | 109 |
| **DN-1301-J2-00** | ◑ | TC-TEL GX24q-3 | 230 | 22x26/32W | _ | | | 109 |

Disponible como accesorio una cruz anti-deslumbrante para DN-1301.
A low luminance cross louvre is available as an accessory for DN-1301.

| CÓDIGO CODE |
|---|
| **ACT-9061-00-00** |

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

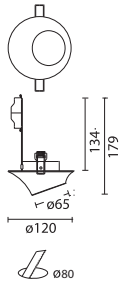
***See Photometric data on page 174 and equivalent lamps table on page 183.***

Luminaria empotrable asimétrica para iluminación de ambiente y/o acento.
Recessed asymmetric luminaire for ambient and/or accent lighting.

CE | F | III | IP 20 | RF 850ºc | 0,5m | 60º | .IES

QR-CBC51 GU5.3

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-1304-14-00** | ○ | QR-CBC51 GU5.3 | 12 | max. 50W | _ | Not inc | | 01-08 |
| **DN-1304-J2-00** | ◑ | QR-CBC51 GU5.3 | 12 | max. 50W | _ | | | 01-08 |

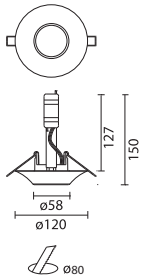



Luminaria empotrable asimétrica para iluminación general.
Recessed asymmetric luminaire for general lighting.

CE | F | III | IP 20 | RF 850ºc | 0,5m | .IES

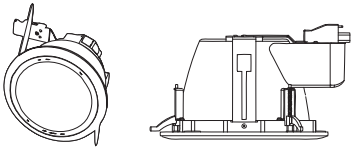
QR-CBC51 GU5.3

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-1303-14-00** | ○ | QR-CBC51 GU5.3 | 12 | max. 50W | _ | Not inc | | 01-08 |
| **DN-1303-J2-00** | ◑ | QR-CBC51 GU5.3 | 12 | max. 50W | _ | | | 01-08 |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

# /TRIMIUM/



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo en fundición de aluminio.**
**Reflector en aluminio anodizado de muy alta pureza (99,98%) con acabado facetado que proporciona un elevado rendimiento con un efectivo confort.**
**Disponible para lámparas fluorescentes compactas desde 1x26W hasta 2x42W, en versiones magnéticas (230 V) o electrónicas (220-240 V), y para lámparas de descarga de halogenuros metálicos HIT-DE (equipo de funcionamiento a pedir separadamente).**
**Anclajes incorporados en el cuerpo, ajustables con destornillador, que garantizan una perfecta fijación del aparato a cualquier tipo de superficie.**
**Los accesorios opcionales se colocan sin necesidad de herramientas.**

*Aluminium cast housing.*
*High purity (99.98%) anodised aluminium reflector with facetted finish which gives a high efficiency with an effective comfort.*
*Available for compact fluorescent from 1x26W till 2x42W, with magnetic (230 V) or electronic (220-240 V) gear, and for compact discharge lamp HIT-DE (gear to be ordered separately).*
*Brackets included in the housing and adjustable with a screwdriver. These brackets guarantee a perfect fixation of the luminaire to any type of ceiling.*
*No tools needed to place the optional accessories.*

## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general – tiendas, oficinas, despachos u hoteles - donde el confort visual y la excelente calidad de los productos sean los principales requerimientos.**

*Luminaires to be used in any general lighting project – shops, offices, office cells, hotels – where visual comfort and excellent quality of the products are the main requirements.*

Gris / *Grey*

Blanco / *White*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

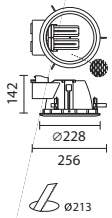
***See Photometric data on page 174 and equivalent lamps table on page 183.***

Downlights para lámparas fluorescentes compactas.
Downlight for compact fluorescents lamps.

CE | F | IP 44 | RF 850ºc | 0,2m | .IES

TC-D G24d-2 | TC-DEL G24q-2 | TC-D G24d-3 | TC-TEL GX24q-3+q-4

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|---|
| **DN-0951-14-B9** | ○ | TC-D G24d-2 | 230 | 2x18W | - | Mag. inc | | 27 | standard |
| **DN-0951-N3-B9** | ● | TC-D G24d-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0952-14-B9** | ○ | TC-D G24d-3 | 230 | 2x26W | - | | | 55 | |
| **DN-0952-N3-B9** | ● | TC-D G24d-3 | 230 | 2x26W | - | | | 55 | |
| **DN-0950-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | |
| **DN-0950-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0953-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0953-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0954-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0954-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0970-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | regul./dimm. 1...10V |
| **DN-0970-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0971-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0971-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0972-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0972-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0980-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | DALI/ PUSH PULL |
| **DN-0980-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0981-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0981-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0982-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0982-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0990-14-B9** | ○ | TC-DEL G24q-3 | 230 | 1x26W | - | Elect. inc | | 56 | emergency 1H |
| **DN-0990-N3-B9** | ● | TC-DEL G24q-3 | 230 | 1x26W | - | | | 56 | |
| **DN-0991-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0991-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0992-14-B9** | ○ | TC-DEL G24q-3 | 230 | 2x26W | - | | | 57 | |
| **DN-0992-N3-B9** | ● | TC-DEL G24q-3 | 230 | 2x26W | - | | | 57 | |



# /TRIMIUM/

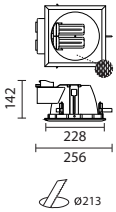
Gris / *Grey*

Blanco / *White*

Downlights para lámparas fluorescentes compactas.
Downlight for compact fluorescents lamps.

CE | F | IP 44 | RF 850ºc | 0,2m | .IES

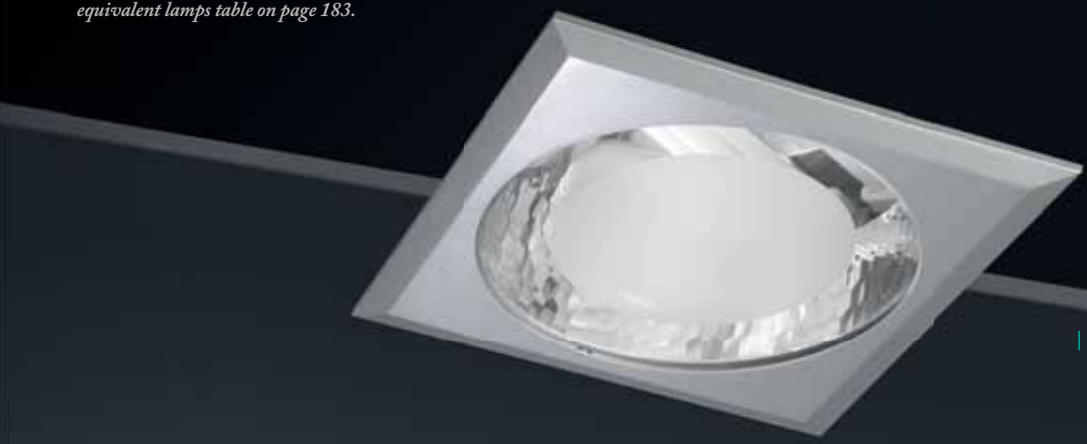
TC-D G24d-2 · TC-DEL G24q-2 · TC-D G24d-3 · TC-TEL GX24q-3+q-4




| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|---|
| **DN-0961-14-B9** | ○ | TC-D G24d-2 | 230 | 2x18W | - | Mag. inc | | 27 | standard |
| **DN-0961-N3-B9** | ● | TC-D G24d-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0962-14-B9** | ○ | TC-D G24d-3 | 230 | 2x26W | - | | | 55 | |
| **DN-0962-N3-B9** | ● | TC-D G24d-3 | 230 | 2x26W | - | | | 55 | |
| **DN-0960-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | |
| **DN-0960-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0963-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0963-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0964-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0964-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0975-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | regul./dimm. 1...10V |
| **DN-0975-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0976-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0976-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0977-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0977-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0985-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | Elect. inc | | 56 | DALI/ PUSH PULL |
| **DN-0985-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 1x26/32/42W | - | | | 56 | |
| **DN-0986-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0986-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0987-14-B9** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0987-N3-B9** | ● | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | | | 57 | |
| **DN-0995-14-B9** | ○ | TC-DEL G24q-3 | 230 | 1x26W | - | Elect. inc | | 56 | emergency 1H |
| **DN-0995-N3-B9** | ● | TC-DEL G24q-3 | 230 | 1x26W | - | | | 56 | |
| **DN-0996-14-B9** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0996-N3-B9** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 27 | |
| **DN-0997-14-B9** | ○ | TC-DEL G24q-3 | 230 | 2x26W | - | | | 57 | |
| **DN-0997-N3-B9** | ● | TC-DEL G24q-3 | 230 | 2x26W | - | | | 57 | |

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*



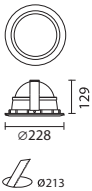




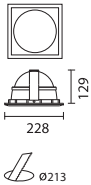
Downlights para lámparas HIT-DE.
Downlight for HIT-DE lamps.

IP 34 · RF 850ºc · 0,5m · .IES · (*) · HIT-DE RX7s

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DN-0955-14-00 | ○ | HIT-DE RX7s | 230 | 70W | - | Not inc | | 26 |
| DN-0955-N3-00 | ● | HIT-DE RX7s | 230 | 70W | - | | | 26 |
| * DN-0956-14-00 | ○ | HIT-DE RX7s | 230 | 150W | - | | | 54 |
| * DN-0956-N3-00 | ● | HIT-DE RX7s | 230 | 150W | - | | | 54 |



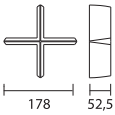
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DN-0965-14-00 | ○ | HIT-DE RX7s | 230 | 70W | - | Not inc | | 26 |
| DN-0965-N3-00 | ● | HIT-DE RX7s | 230 | 70W | - | | | 26 |
| * DN-0966-14-00 | ○ | HIT-DE RX7s | 230 | 150W | - | | | 54 |
| * DN-0966-N3-00 | ● | HIT-DE RX7s | 230 | 150W | - | | | 54 |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

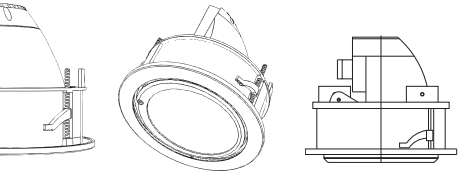
Cruz baja luminancia.
Low luminance cross louvre.

| CÓDIGO CODE |
|---|
| ACT-0233-00-00 |




No válida para versiones HIT-DE.
Not valid for HIT-DE versions.

# /TRIMIUM E/



## DESCRIPCIÓN / *DESCRIPTION*

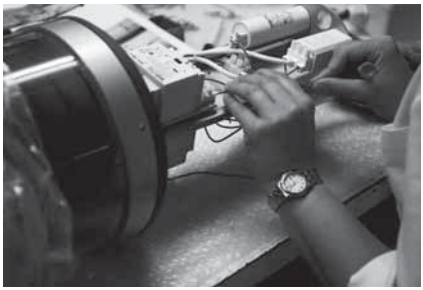
**Cuerpo en policarbonato inyectado y marco exterior en aluminio inyectado.**
**Reflectores en aluminio anodizado de muy alta pureza (99,98%) para diferentes aperturas del haz de luz.**
**Anclajes incorporados en el cuerpo, ajustables con destornillador, que garantizan una perfecta fijación del aparato a cualquier tipo de superficie.**
**El sistema de orientación permite 2 tipos de ajuste:**
**- Extracción y fijación del cuerpo en la posición deseada (hasta 40º) a través de un tornillo.**
**- Giro de 355º en el eje vertical sin necesidad de herramientas.**

*Injected polycarbonate housing frame and die-cast aluminium outer trim.*
*High purity (99.98%) anodised aluminium reflectors for different beam angles.*
*Brackets included in the housing and adjustable with a screwdriver. These brackets guarantee a perfect fixation of the luminaire to any type of ceiling.*
*Adjustable system allows different adjustments:*
*- Pull out and fixation of the optical compartment into the desired angle (until 40º) via a screw.*
*- 355º turn without any tool to direct the light where is needed.*

## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación que necesite un perfecto direccionamiento del haz de luz para crear efectos de bañador de pared o acentuación de las mercancías expuestas.**

*Luminaires to be used in any project needing the right light in the right direction to create wall-washing effects and highlights of the exposed goods.*



**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Gris / *Grey*  Blanco / *White*

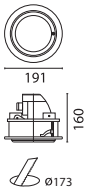




Downlights orientables extraibles para lámparas HIT-T.
Adjustable downlight for HIT-T lamps.

CE · F · IP 40 · RF 850ºc · 355º · 40º · .IES · (*) F Para HIT-T⩽70W / For HIT-T⩽70W · HIT-T G12

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| * | **DN-0236-14-37** | ○ | HIT-T G12 | 230 | max.150W | 12º | Not inc | | 28 |
| * | **DN-0236-N3-37** | ● | HIT-T G12 | 230 | max.150W | 12º | | | 28 |
| * | **DN-0238-14-37** | ○ | HIT-T G12 | 230 | max.150W | 40º | | | 29 |
| * | **DN-0238-N3-37** | ● | HIT-T G12 | 230 | max.150W | 40º | | | 29 |

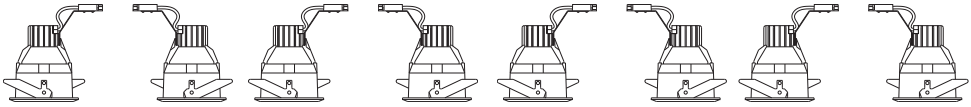



Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Los anclajes se ajustan con un destornillador, sin necesidad de desmontar el reflector, y garantizan una enorme fiabilidad de la fijación de la luminaria a cualquier tipo de superficie.

*The ceiling brackets are adjusted with a screwdriver and without need to remove the reflector. These brackets offer a very high reliability to the fixation on any type of ceiling surface*

# /TRIMIUM S130/



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo totalmente fabricado en fundición de aluminio.**
**Reflector en aluminio anodizado de muy alta pureza (99,98%) con acabado mate.**
**Disponible para lámparas de descarga (HIT-TC), halógenas (MASTERline-TC) o TC-TEL. Todas las versiones se suministran con cristal de protección IP54.**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas para una total facilidad de instalación.**

*Aluminium cast housing.*
*High purity anodised aluminium reflector with matt finishing.*
*Available for compact discharge lamp HIT-TC, halogen MASTERline-TC or TC-TEL. Any of these is supplied with protection glass IP54.*
*Brackets included in the housing and adjustable without the need of any tool for a total ease of installation.*

## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación ambiental – tiendas, oficinas, despachos u hoteles - donde el confort visual y la excelente calidad de los productos sean los principales requerimientos.**

*Luminaires to be used in any environmental lighting project – shops, offices, office cells, hotels – where visual comfort and excellent quality of the products are the main requirements.*

Gris / *Grey*

Negro / *Black*

Blanco / *White*

Aluminio cepillado / *Polished aluminium*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

Downlight para lámpara HIT-TC, QT-TC o TC-TEL.
Fixed downlight for HIT-TC, QT-TC or TC-TEL lamps.

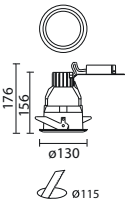
CE | IP 54 | RF 850ºc | .IES

DN-1000-XX-XX — F — 0,2m
DN-1001-XX-XX — F — 0,5m
DN-1002-XX-XX — F — III — 0,5m

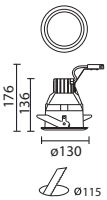
TC-TEL GX24q-3
HIT-TC G8.5
QT-TC G8.5

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-1000-14-B9** | ○ | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1000-N3-B9** | ● | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1000-60-B9** | ● | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1000-S2-B9** | ◑ | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1001-14-B9** | ○ | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1001-N3-B9** | ● | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1001-60-B9** | ● | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1001-S2-B9** | ◑ | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1002-14-B9** | ○ | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1002-N3-B9** | ● | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1002-60-B9** | ● | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1002-S2-B9** | ◑ | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |

DN-1000




DN-1001 / DN-1002




(*) Consultar
(*) Consult

(1) Equipo no incluido, a pedir separadamente, ver pág. 166
(1) Gear not included, to be ordered separately, see page 166

Downlight para lámpara HIT-TC, QT-TC o TC-TEL.
Fixed downlight for HIT-TC, QT-TC or TC-TEL lamps.

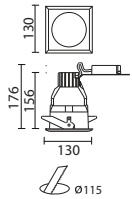
CE | IP 54 | RF 850ºc | .IES

DN-1006-XX-XX — F — 0,2m
DN-1007-XX-XX — F — 0,5m
DN-1008-XX-XX — F — III — 0,5m

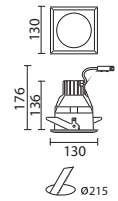
TC-TEL GX24q-3
HIT-TC G8.5
QT-TC G8.5

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-1006-14-B9** | ○ | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1006-N3-B9** | ● | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1006-60-B9** | ● | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1006-S2-B9** | ◑ | TC-TEL GX24q-3 | 230 | 1x26W | 95º | Elect. inc | | 117 |
| **DN-1007-14-B9** | ○ | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1007-N3-B9** | ● | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1007-60-B9** | ● | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1007-S2-B9** | ◑ | HIT-TC G8.5 | 230 | max.70W | 60º | Not inc (1) | | 30 |
| **DN-1008-14-B9** | ○ | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1008-N3-B9** | ● | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1008-60-B9** | ● | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |
| **DN-1008-S2-B9** | ◑ | QT-TC G8.5 | 12 | max.60W | 60º | Not inc (1) | | 31 |

DN-1006



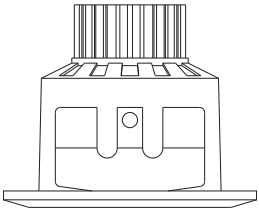

DN-1007 / DN-1008




(*) Consultar
(*) Consult

(1) Equipo no incluido, a pedir separadamente, ver pág. 166
(1) Gear not included, to be ordered separately, see page 166

# /TRIMIUM S100/



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo totalmente fabricado en fundición de aluminio.**
**Reflector en aluminio anodizado de muy alta pureza (99,98%) con acabado brillo para las versiones con lámpara QT-12 y CDM-Tm. Se suministran con cristal de protección (IP54).**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas para una total facilidad de instalación.**

*Aluminium cast housing.*
*High purity anodised aluminium reflector with high-gloss finishing in the QT-12 and CDM-Tm versions.*
*All versions are supplied with IP54 protection glass.*
*Brackets included in the housing and adjustable without the need of any tool for a total ease of installation.*

## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación ambiental y/o acentuación – tiendas, oficinas, despachos, hoteles - donde la excelente calidad de los productos sean los principales requerimientos.**

*Luminaires to be used in any environmental and/or accent lighting project – shops, offices, office cells, hotels – where the excellent quality of the products is the main requirement.*

Gris / *Grey*

Negro / *Black*

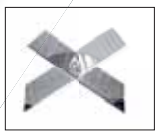
Blanco / *White*

Aluminio cepillado / *Polished aluminium*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***





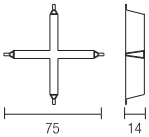
**Cruz baja luminancia**

Low luminance cross louvre.

| CÓDIGO<br>CODE |
|---|
| **ACT-0294-00-00** |

No válida para versiones CDM-Tm

Not valid for CDM-Tm versions.




**Downlight para lámpara CDM-Tm, QT-12, QR-CBC51 o QPAR-16 GU10.**

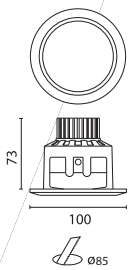
Fixed downlight for CDM-Tm, QT-12, QR-CBC51 or QPAR-16 GU10 lamps.

CE | IP 54 | RF 850ºc | 0,5m | .IES

(*) F Para QR-CBC51 ≤35W

For QR-CBC51 ≤35W

QR-CBC51 GU5.3 | CDM-Tm PGJ5 (1) | QT-12 GY6.35 | QPAR-16 GU10




| | CÓDIGO<br>CODE | COLOR<br>COLOUR | LÁMPARA<br>LAMP | VOLT.<br>VOLT | W<br>W | HAZ<br>BEAM | | CLASE<br>CLASS | EQUIPO<br>GEAR | INSTALACIÓN<br>INSTALLATION | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | **DN-1003-14-B9** | ○ | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | Not inc (2) | | | 01-08 |
| * | **DN-1003-N3-B9** | ● | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | | 01-08 |
| * | **DN-1003-60-B9** | ● | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | | 01-08 |
| * | **DN-1003-S2-B9** | ◑ | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | | 01-08 |
| | **DN-1004-14-B9** | ○ | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | | 32 |
| | **DN-1004-N3-B9** | ● | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | | 32 |
| | **DN-1004-60-B9** | ● | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | | 32 |
| | **DN-1004-S2-B9** | ◑ | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | | 32 |
| | **DN-1005-14-B9** | ○ | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | Elect. inc | | | 33 |
| | **DN-1005-N3-B9** | ● | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | | 33 |
| | **DN-1005-60-B9** | ● | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | | 33 |
| | **DN-1005-S2-B9** | ◑ | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | | 33 |
| | **DN-1012-14-B9** | ○ | QPAR-16 GU10 | 230 | max 50W | - | F | ⏚ | - | | | 134 |
| | **DN-1012-S2-B9** | ◑ | QPAR-16 GU10 | 230 | max 50W | - | F | ⏚ | - | | | 134 |

(1) Lámpara incluida

(1) Lamp included

(2) Equipo no incluido, a pedir separadamente, ver pág. 166

(2) Gear not included, to be ordered separately, see page 166

# /TRIMIUM S100/

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

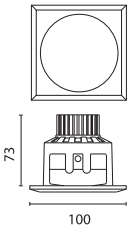
*See Photometric data on page 174 and equivalent lamps table on page 183.*

Downlight para lámpara CDM-Tm, QT-12, QR-CBC51 o QPAR-16 GU10.
Fixed downlight for CDM-Tm, QT-12, QR-CBC51 lamps or QPAR-16 GU10.

CE | IP 54 | RF 850ºc | 0,5m | .IES

(*) Para QR-CBC51≤35W
For QR-CBC51≤35W

QR-CBC51 GU5.3 | CDM-Tm PGJ5 (1) | QT-12 GY6.35 | QPAR-16 GU10

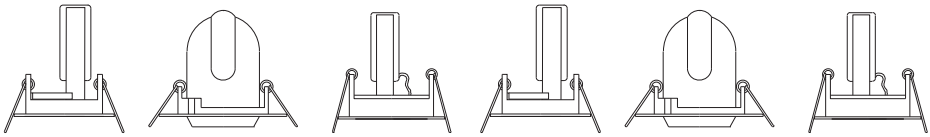



| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | | CLASE CLASS | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| * | **DN-1009-14-B9** | ○ | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | Not inc (2) | | 05-08 |
| * | **DN-1009-N3-B9** | ● | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | 05-08 |
| * | **DN-1009-60-B9** | ● | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | 05-08 |
| * | **DN-1009-S2-B9** | ◑ | QR-CBC51 GU5.3 | 12 | max 50W | - | F | III | | | 05-08 |
| | **DN-1010-14-B9** | ○ | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | 32 |
| | **DN-1010-N3-B9** | ● | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | 32 |
| | **DN-1010-60-B9** | ● | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | 32 |
| | **DN-1010-S2-B9** | ◑ | QT-12 GY6.35 | 12 | max 100W | 55º | F | III | | | 32 |
| | **DN-1011-14-B9** | ○ | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | Elect. inc | | 33 |
| | **DN-1011-N3-B9** | ● | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | 33 |
| | **DN-1011-60-B9** | ● | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | 33 |
| | **DN-1011-S2-B9** | ◑ | CDM-Tm PGJ5 (1) | 230 | 20W | 55º | F | ⏚ | | | 33 |
| | **DN-1016-14-B9** | ○ | QPAR-16 GU10 | 230 | max 50W | - | F | ⏚ | - | | 134 |
| | **DN-1016-S2-B9** | ◑ | QPAR-16 GU10 | 230 | max 50W | - | F | ⏚ | - | | 134 |

(1) Lámpara incluida
(1) Lamp included

(2) Equipo no incluido, a pedir separadamente, ver pág. 166
(2) Gear not included, to be ordered separately, see page 166

# /TRIMIUM MINI/







## DESCRIPCIÓN / *DESCRIPTION*

**Pequeños downlights para lámparas QR-CBC51 y QPAR-16.**
**Cuerpo totalmente fabricado en fundición de aluminio. Pintura con elevada resistencia a la corrosión y a la oxidación.**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas para una total facilidad de instalación.**

*Small downlights for QR-CBC51 and QPAR-16 lamps.*
*Totally manufactured with die-cast aluminium. Painting with high resistance to corrosion and oxidation.*
*Brackets included in the housing and adjustable without the need of any tool for a total ease of installation.*

## APLICACIÓN / *APPLICATION*

**Diferentes configuraciones – fijos, orientables, extraíbles o basculantes - y colores permiten su perfecta integración tanto en ambientes domésticos como en proyectos con exigentes requerimientos lumínicos.**

*Different configurations – fixed, adjustable, pull-out – and colours allow the perfect integration in domestic environments as well as in projects with high quality requirements.*

# /TRIMIUM MINI/

Gris / *Grey*

Negro / *Black*

Blanco / *White*

Aluminio cepillado / *Polished aluminium*

Downlight para lámparas QR-CBC51/ QPAR-16.
Fixed downlight for QR-CBC51/ QPAR-16 lamps.

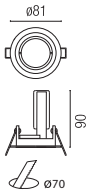
CE | IP 20 | RF 850°c | 0,5m | .IES

QR-CBC51 GU5.3

QPAR-16 GU10

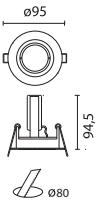
Para QR-CBC51≤35W
For QR-CBC51≤35W

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| * | **DN-0522-14-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| * | **DN-0522-S2-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0522-N3-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0522-60-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0525-14-00** | | QPAR-16 GU10 | 230 | max.50W | - | - | | 134 |
| * | **DN-0525-S2-00** | | QPAR-16 GU10 | 230 | max.50W | - | - | | 134 |



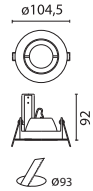

±20°

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| * | **DN-0521-14-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| * | **DN-0521-S2-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0521-N3-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0521-60-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0526-14-00** | | QPAR-16 GU10 | 230 | max.50W | - | - | | 134 |
| * | **DN-0526-S2-00** | | QPAR-16 GU10 | 230 | max.50W | - | - | | 134 |




40° | 355°

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| * | **DN-0520-14-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| * | **DN-0520-S2-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0520-N3-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| * | **DN-0520-60-00** | | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

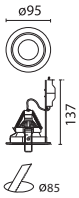
*See Photometric data on page 174 and equivalent lamps table on page 183.*

Downlight para lámpara QR-CBC51.

Fixed downlight for QR-CBC51 lamps.

IP 20 | RF 850ºc | 0,5m | .IES | (*) Para QR-CBC51⩽35W / For QR-CBC51⩽35W | QR-CBC51 GU5.3

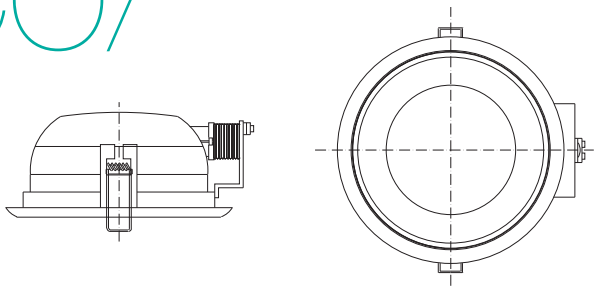
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-0610-14-00** | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| **DN-0610-S2-00** | ◑ | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| **DN-0610-N3-00** | ● | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |
| **DN-0610-60-00** | ● | QR-CBC51 GU5.3 | 12 | max.50W | - | | | 01-08 |




Equipo no incluido, a pedir separadamente, ver pág. 166

Gear not included, to be ordered separately, see page 166

# /ECO/



**Gama de downlights económicos para la iluminación general. La perfecta conjugación entre las necesidades de iluminación y precio sin renunciar al uso de componentes de gama alta.**

*Range of fluorescent downlights for general lighting.*
*The perfect match between lighting needs and price without renouncing high-end components.*

## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo en chapa de acero protegida contra la corrosión.**
**Reflector facetado en aluminio anodizado de muy alta pureza.**
**Disponible en versiones de 1 y 2 lámparas fluorescentes compactas en potencias de 18W y 26W.**
**Tanto en versiones magnéticas como electrónicas.**
**También versiones con equipos de emergencia.**
**Todas las versiones incorporan cristal antideslumbrante.**
**Anclajes incorporados en el cuerpo y fácilmente ajustables (sin herramientas).**
**Acabados en blanco y gris metalizado.**

*Body in steel protected against corrosion.*
*High purity anodised aluminium reflector.*
*Available for 1 or 2 compact fluorescent lamps 18W or 26W. Both with electronic or magnetic ballast.*
*Versions with emergency kit also available.*
*Tempered matt glass included for all versions.*
*Fixing brackets included in the housing and easily adjustable (without tools).*
*Available in white or grey finished.*

## APLICACIÓN / *APPLICATION*

**Luminarias fijas para ser utilizadas en cualquier proyecto de iluminación general: tiendas, oficinas, despachos u hoteles.**

*Fluorescent range of luminaires for any kind of general lighting project such as retail shops, offices or hotels.*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

Gris / *Grey*

Blanco / *White*

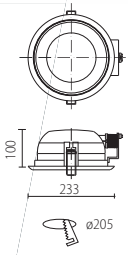


Downlight para lámparas fluorescentes compactas.

Fixed downlight for compact fluorescent lamps.

IP 44 | RF 850°c | 0,2m | .IES

TC-D G24d-2 | TC-DEL G24q-2 | TC-D G24d-3 | TC-DEL G24q-3

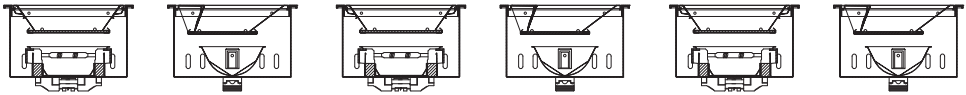



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|---|
| **DN-1400-14-00** | ○ | TC-D G24d-2 | 230 | 18W | - | Mag. inc | | 118 | standard |
| **DN-1400-N3-00** | ● | TC-D G24d-2 | 230 | 18W | - | | | 118 | |
| **DN-1401-14-00** | ○ | TC-D G24d-2 | 230 | 2x18W | - | | | 119 | |
| **DN-1401-N3-00** | ● | TC-D G24d-2 | 230 | 2x18W | - | | | 119 | |
| **DN-1402-14-00** | ○ | TC-D G24d-3 | 230 | 26W | - | | | 120 | |
| **DN-1402-N3-00** | ● | TC-D G24d-3 | 230 | 26W | - | | | 120 | |
| **DN-1403-14-00** | ○ | TC-D G24d-3 | 230 | 2x26W | - | | | 121 | |
| **DN-1403-N3-00** | ● | TC-D G24d-3 | 230 | 2x26W | - | | | 121 | |
| **DN-1405-14-00** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | 118 | |
| **DN-1405-N3-00** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 118 | |
| **DN-1406-14-00** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | | | 122 | |
| **DN-1406-N3-00** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 122 | |
| **DN-1407-14-00** | ○ | TC-DEL G24q-3 | 230 | 26W | - | | | 123 | |
| **DN-1407-N3-00** | ● | TC-DEL G24q-3 | 230 | 26W | - | | | 123 | |
| **DN-1408-14-00** | ○ | TC-DEL G24q-3 | 230 | 2x26W | - | | | 124 | |
| **DN-1408-N3-00** | ● | TC-DEL G24q-3 | 230 | 2x26W | - | | | 124 | |
| **DN-1409-14-00** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | Elect. inc | | 122 | emergency 1H |
| **DN-1409-N3-00** | ● | TC-DEL G24q-2 | 230 | 2x18W | - | | | 122 | |
| **DN-1410-14-00** | ○ | TC-DEL G24q-3 | 230 | 2x26W | - | | | 124 | |
| **DN-1410-N3-00** | ● | TC-DEL G24q-3 | 230 | 2x26W | - | | | 124 | |

(*) Consultar

(*) Consult

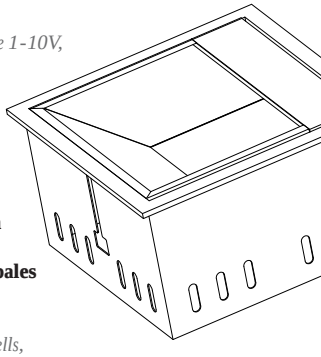
# /CUADRO/



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo fabricado en chapa de acero con marco exterior embellecedor fabricado en aluminio y acabado con pintura epoxi de color blanco o gris.**
**Todas las versiones incorporan cristal de protección de vidrio templado mate o transparente.**
**Reflector en aluminio anodizado de muy alta pureza (99,98%).**
**Disponible para lámparas fluorescentes compactas, también en versiones regulables 1-10 V, DALI/PUSH- PULL o con equipos de emergencia.**
**También con lámparas de descarga para la versión WALL-WASHER.**
**Anclajes incorporados en el cuerpo, fácilmente ajustables sin herramientas.**

*Housing made of steel with aluminium cast decorative trim with white or grey/ silver epoxy painting finish.*
*All versions include a tempered protection glass, matt or transparent.*
*Anodised aluminium reflector with matt finish.*
*Available for compact fluorescent lamps (electronic gear included), dimmable 1-10V, DALI / PUSH- PULL or with emergency kit.*
*Also available with metal halide lamps for the WALL-WASHER version.*
*Brackets included in the housing and adjustable without any tool.*



## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general – tiendas, oficinas, despachos u hoteles - dónde el confort visual, la estética y la funcionalidad de los productos sean los principales requerimientos.**

*Luminaires to be used in any general lighting project – shops, offices, office cells, hotels – where aesthetics and functionality of the products are the main requirements.*

Blanco / *White* Gris / *Grey*

**H6**: Cristal claro.
**H6**: Clear glass.
**B9**: Cristal mate.
**B9**: Matt glass.

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Downlight para lámpara TC-TEL.
Downlight for TC-TEL lamp.

IP 34 | RF 850ºc | 0,2m | .IES

TC-TEL GX24q-3+q-4 | TC-DEL G24q-3

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|---|
| **DN-1608-14-B9** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | Elect. inc | | 59 | standard |
| **DN-1608-14-H6** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 59 | |
| **DN-1608-N3-B9** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1608-N3-H6** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1610-14-B9** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | Elect. inc | | 59 | regul./dimm. 1...10V |
| **DN-1610-N3-B9** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 59 | |
| **DN-1610-14-H6** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1610-N3-H6** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1612-14-B9** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | Elect. inc | | 59 | DALI/ PUSH PULL |
| **DN-1612-N3-B9** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 59 | |
| **DN-1612-14-H6** | ○ | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1612-N3-H6** | ● | TC-TEL GX24q-3+q-4<br>TC-DEL G24q-3 | 230 | 2x26/32/42W | - | | | 60 | |
| **DN-1614-14-H6** | ○ | TC-DEL G24q-3 | 230 | 2x26W | - | Elect. inc | | 60 | emergency 1H |
| **DN-1614-N3-H6** | ● | TC-DEL G24q-3 | 230 | 2x26W | - | | | 60 | |

200
200
100
185 x 185 mm

Versión 2x42W instalar sin difusor de cristal./ 2x42W version to be installed without glass diffuser.

# /CUADRO/

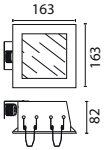
Blanco / *White*  Gris / *Grey*

**H6**: Cristal claro.
**H6**: Clear glass.
**B9**: Cristal mate.
**B9**: Matt glass.

Downlight cuadrado para lámpara TC-DEL.
Square downlight for TC-DEL lamp .

CE | F | IP 34 | RF 850ºc | 0,2m | .IES

TC-DEL G24q-2

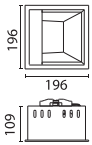



145 x 145 mm

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | | VERSIÓN VERSION |
|---|---|---|---|---|---|---|---|---|---|
| **DN-1606-14-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | 35 | standard |
| **DN-1606-14-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 35 | |
| **DN-1606-N3-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1606-N3-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1609-14-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | 35 | regul./dimm. 1...10V |
| **DN-1609-14-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 35 | |
| **DN-1609-N3-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1609-N3-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1611-14-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | 35 | DALI/ PUSH PULL |
| **DN-1611-14-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 35 | |
| **DN-1611-N3-B9** | ○ | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1611-N3-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |
| **DN-1613-14-H6** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | 36 | emergency 1H |
| **DN-1613-N3-H6** | ● | TC-DEL G24q-2 | 230 | 18W | - | | | 36 | |

Downlight cuadrado para lámpara HIT-DE con casquillo RX7s.
Óptica asimétrica **BAÑADORA DE PAREDES** de alto rendimiento.
Square downlight for metal halide lamp HIT-DE.
High efficiency asymmetric reflector for wall washer.

CE | F | IP 23 | RF 850ºc | 0,5m | .IES




HIT-DE RX7s

184 x 184 mm

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-0343-14-00** | ○ | HIT-DE Rx7s | 230 | 70W | - | Not inc | | 102 |
| **EP-0343-N3-00** | ● | HIT-DE Rx7s | 230 | 70W | - | | | 102 |

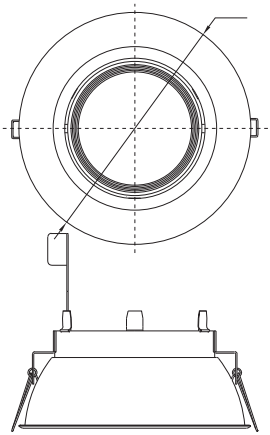
Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

# /DOME/

Design by:
JOSEP PATSI





## DESCRIPCIÓN / *DESCRIPTION*

**Downlight circular de alto confort visual para evitar deslumbramientos utiliza lámparas QR-CBC51/ QPAR-16/QR-111 y CDM-R111.**
**Con cuerpo de chapa de acero y acabado en blanco.**
**Muy versátil, dispone de versiones fijas y orientables con opción de portalámparas GU10 para una iluminación con LED.**
**Muelle de fijación de la lámpara en acero inoxidable con alta resistencia a la deformación mecánica.**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas.**

*Circular Downlight with excellent visual comfort to avoid glare, it uses QR-CBC51 / QPAR-16/QR-111 and CDM-R111 lamps.*
*Housing made of steel and white finish.*
*Versatile, it has fixed and adjustable versions with GU10 lamp option for LED lighting.*
*Inox lamp fixation spring with great resistance to deformations.*
*Brackets integrated in the housing and adjustable without tools.*

## APLICACIÓN / *APPLICATION*

**Ideal para aplicaciones de iluminación general en tiendas, restaurantes, hoteles y viviendas.**

*Ideal for general lighting applications such as shops, restaurants, hotels and homes.*

# /DOME/

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Blanco / *White*



## Downlight para lámpara QR-CBC51/ QPAR-16.

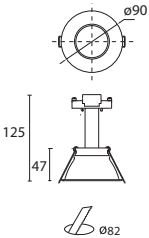
Fixed downlight for QR-CBC51 lamps/ QPAR-16 lamps.

CE · F · IP 20 · RF 850ºc · 0,5m · .IES

Para QR-CBC51 GU5.3 / For QR-CBC51 GU5.3 — Para QPAR-16 GU10 / For QPAR-16 GU10 — QR-CBC51 GU5.3 — QPAR-16 GU10

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| *DN-1600-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| | | QPAR-16 GU10 | 230 | | - | - | | 134 |

* 2 portalámparas incluidos
* 2 lamp holders included



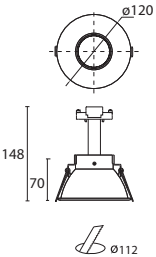

## Downlight orientable para lámpara QR-CBC51/ QPAR-16.

Adjustable downlight for QR-CBC51 lamps/ QPAR-16 lamps.

±20° — Para QR-CBC51 GU5.3 / For QR-CBC51 GU5.3 — Para QPAR-16 GU10 / For QPAR-16 GU10 — QR-CBC51 GU5.3 — QPAR-16 GU10

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| *DN-1601-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| | | QPAR-16 GU10 | 230 | | - | - | | 134 |

* 2 portalámparas incluidos
* 2 lamp holders included

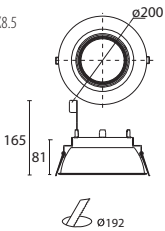



## Downlight orientable para lámpara QR-111/ CDM-R111.

Adjustable downlight for QR-111 lamps/ CDM-R111 lamps.

±20° — Para CDM-R111 GX8.5 / For CDM-R111 GX8.5 — Para QR-111 G53 / For QR-111 G53 — QR-111 G53 — CDM-R111 GX8.5

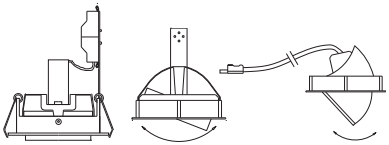
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DN-1602-14-00 | ○ | QR-111 G53 | 12 | max.100W | - | Not inc | | 09-14 |
| DN-1603-14-00 | ○ | CDM-R111 GX8.5 | 230 | max.70W | - | | | 15-17 |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

* Instalación rápida y fácil
* Quick and easy installation

# /CARDEX/



**Gama de downlights orientables para iluminación ambiental o de acentuación.**
*Adjustable downlights range for environmental or accent lighting.*

## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo y marco exterior fabricados en fundición de aluminio acabado con pintura epoxi.**
*Aluminium cast housing with white or grey/silver epoxy painting finish.*

- **CARDEX E**
  **Disponible para lámpara halógena (QT-12) o de halogenuros metálicos (HIT-TC G8.5)**
  **El sistema de orientación permite la extracción ±40° y el giro de 355° en el eje vertical.**

  *Available for halogen lamps (QT-12) or compact discharge lamps (HIT-TC G8.5).*
  *The orientation system allows 2 kinds of adjustments: ±40º pull and 355º turn.*

- **CARDEX C**
  **Disponible para lámpara halógena (QR-111) y para halogenuros metálicos HIT-T o CDM-R111.**
  **Las luminarias para lámpara de descarga compacta (HIT-T) incorporan un reflector en aluminio anodizado de muy alta pureza, disponible en dos versiones: óptica intensiva (10°) o semi-extensiva (45°).**

  *Available for the halogen lamp QR-111 and for discharge lamps HIT-T or CDM-R111.*
  *Versions for discharge lamps (HIT-T) include a high purity anodised aluminium reflector available in two versions: intensive (10º) or semi-flood (45º).*

- **CARDEX CM**
  **Disponible para lámpara halógenas (QR-70) y para lámpara compactas de halogenuros metálicos CDM-Tm.**
  **Las luminarias para lámpara de descarga compacta (CDM-Tm) incorporan un reflector disponible en dos versiones: en vidrio dicroico para una distribución intensiva (12°) o en aluminio anodizado para una distribución semi-extensiva (36°).**
  **Éstas se suministran completas, con equipo de funcionamiento electrónico y lámpara incorporada.**

  *Available for halogen QR-70 and for compact discharge lamp CDM-Tm 20W.*
  *Versions for compact discharge lamp (CDM-Tm) include a reflector available in two versions: dichroic glass reflector for intensive distribution (12º) or anodised aluminium reflector for semi-flood distribution (36º).*
  *They are supplied complete with protection glass, lamp and electronic gear.*

## APLICACIÓN / *APPLICATION*

**Luminarias especialmente indicadas para iluminar espacios comerciales y espacios dedicados a la restauración (bares, cafeterías, restaurantes, etc.).**

*Luminaires to be used in any environmental and/or accent lighting project, specially in large commercial areas, restaurants, coffee shops, hotels, etc.*

## ACCESORIOS / *ACCESSORIES*

**Disponibilidad de placas de montaje rectangulares para las versiones CARDEX E y C (no válidas para CARDEX CM), para la instalación de 1, 2, 3 o 4 luminarias.**

*Availability of mounting plates for 1, 2, 3 or 4 luminaires. Only available for versions CARDEX E and C, not for CM.*

# /CARDEX E/

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

Blanco / *White*

Gris / *Grey*

Posibilidad de extraer o recoger la cabeza del downlight y permitiendo, a la vez, la rotación de 355º en el plano vertical.

*The orientation system allows 2 kinds of adjustments: ±40º pull (out or in) and 355º turn around the vertical axis.*





Downlight orientable para lámpara HIT-TC o QT-12.

Adjustable downlight for HIT-TC or MasterLine-TC lamps.

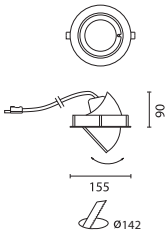
IP 40 | RF 850ºc | 0,5m | ±40º | 355º | .IES

Para DN-0268 / For DN-0268

Para DN-0269 / For DN-0269

QT-12 GY6.35

HIT-TC G8.5



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DN-0268-14-00** | ○ | QT-12 GY6.35 | 12 | max. 100W | 85º | Not inc | | 39 |
| **DN-0268-N3-00** | ● | QT-12 GY6.35 | 12 | max. 100W | 85º | | | 39 |
| **DN-0269-14-00** | ○ | HIT-TC G8.5 | 230 | max. 70W | 85º | | | 40 |
| **DN-0269-N3-00** | ● | HIT-TC G8.5 | 230 | max. 70W | 85º | | | 40 |

Equipo no incluido, a pedir separadamente, ver pág. 166

Gear not included, to be ordered separately, see page 166

# /CARDEX C

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

Blanco / *White*

Gris / *Grey*

Gran versatilidad para dirigir el haz de luz gracias al sistema de orientación tipo cardan que permite una orientación en cualquier dirección.

*Great versatility for adjusting the direction of the light beam thanks to the cardan type orientation system.*

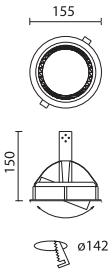


Downlight orientable para lámpara QR-111, CDM-R111, HIT-T.

Adjustable downlight for QR-111, CDM-R111, HIT-T. lamps.

IP 20 | RF 850ºc | 0,5m | ±40º | .IES | (*) III | (**) F HIT-T 150W.

QR-111 G53 | HIT-T G12 | CDM-R111 GX8.5




| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| (*) | **DN-0270-14-00** | ○ | QR-111 G53 | 12 | max.100W | - | Not inc | | 09-14 |
| (*) | **DN-0270-N3-00** | ● | QR-111 G53 | 12 | max.100W | - | | | 09-14 |
| | **DN-0275-14-00** | ○ | CDM-R111 GX8.5 | 230 | max.70W | - | | | 15-20 |
| | **DN-0275-N3-00** | ● | CDM-R111 GX8.5 | 230 | max.70W | - | | | 15-20 |
| (**) | **DN-0274-14-00** | ○ | HIT-T G12 | 230 | max.150W | 10º | | | 41 |
| (**) | **DN-0274-N3-00** | ● | HIT-T G12 | 230 | max.150W | 10º | | | 41 |
| (**) | **DN-0273-14-00** | ○ | HIT-T G12 | 230 | max.150W | 45º | | | 42 |
| (**) | **DN-0273-N3-00** | ● | HIT-T G12 | 230 | max.150W | 45º | | | 42 |

Equipo no incluido, a pedir separadamente, ver pág. 166

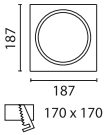
Gear not included, to be ordered separately, see page 166

# PLACAS DE MONTAJE DECORATIVO (CARDEX C /CARDEX E)
# *MOUNTING DECORATIVE PLATES* (CARDEX C /CARDEX E)

No válido para CARDEX CM
*Not valid for CARDEX CM*

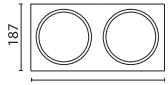
Placa decorativa de montaje (No válida para Cardex CM).
Decorative mounting plate (Not valid for Cardex CM).

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-0065-14-00 | ○ |
| ACT-0065-N3-00 | ● |



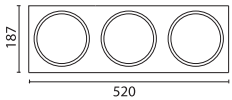

170 x 170 mm

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-0066-14-00 | ○ |
| ACT-0066-N3-00 | ● |



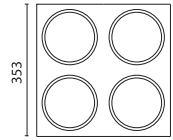

170 x 337 mm

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-0067-14-00 | ○ |
| ACT-0067-N3-00 | ● |




170 x 503 mm

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-0068-14-00 | ○ |
| ACT-0068-N3-00 | ● |




337 x 337mm

# /CARDEX CM/

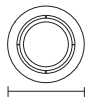
**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

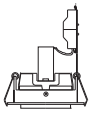
Downlight orientable para lámpara QR-70 o CDM-Tm.
Adjustable downlight for QR-70 or CDM-Tm lamp.

IP 20 | RF 850°c | 0,5m | ±40° | .IES | (*)

CDM-Tm PGJ5 | QR-70 BA15d



ø111



148,5

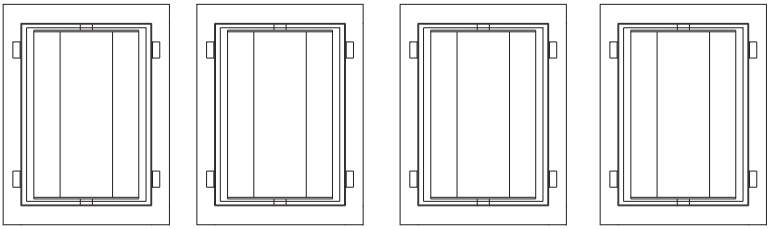
ø100

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| (*) | **DN-0278-14-00** | ○ | QR-70 BA15d | 12 | max.50W | - | Not inc (2) | | 43-44 |
| (*) | **DN-0278-N3-00** | ● | QR-70 BA15d | 12 | max.50W | - | | | 43-44 |
| | **DN-0279-14-00** | ○ | CDM-Tm PGJ5(1) | 230 | 20W | 12º | Elect. inc | | 45 |
| | **DN-0279-N3-00** | ● | CDM-Tm PGJ5(1) | 230 | 20W | 12º | | | 45 |
| | **DN-0280-14-00** | ○ | CDM-Tm PGJ5(1) | 230 | 20W | 36º | | | 46 |
| | **DN-0280-N3-00** | ● | CDM-Tm PGJ5(1) | 230 | 20W | 36º | | | 46 |

(1) Lámpara suministrada con el aparato
(1) Lamp included with the luminaire

(2) Equipo no incluido, a pedir separadamente, ver pág. 166
(2) Gear not included, to be ordered separately, see page 166

# / VITRO





## DESCRIPCIÓN / *DESCRIPTION*

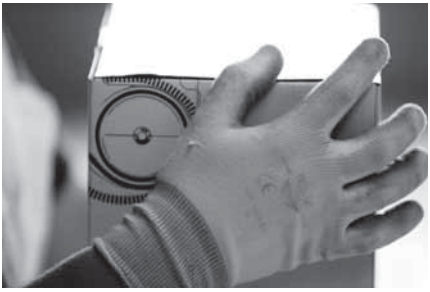
**Downlight orientable para iluminación tipo bañador de pared o para iluminación general.**
**Cuerpo fabricado en chapa de acero lacada en negro.**
**Marco exterior en aluminio acabado con pintura epoxi de color gris-plata.**
**Compartimiento óptico en aluminio extruido y orientable ± 40º en el eje horizontal. Incluye un reflector fabricado en aluminio anodizado brillo y está protegido por un cristal templado arenado para un mejor confort visual.**
**Disponible para lámparas halógenas QT-DE o para descarga de halogenuros metálicos HIT-DE.**

*Adjustable downlight for wall-washing or general lighting.*
*Housing made of black lacquered steel.*
*Outer trim in die-cast aluminium finished in grey-silver epoxy painting.*
*Extruded aluminium orientable optic compartment with ±40º rotation on the horizontal axis. This compartment includes a reflector made of high-gloss anodised aluminium. Lamp-holders and components are protected with a tempered sand-blasted glass.*
*Available for QT-DE halogen lamps or for HIT-DE discharge lamps.*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser usadas, sobre todo, en la iluminación vertical de paredes y estanterías. El novedoso sistema de orientación del haz de luz permite obtener un bañador de pared sin la obstrucción de los sistemas convencionales.**

*Luminaires to be used, mainly, for the vertical lighting of walls and shelves. The innovative adjustment system provides a wall-washer without the obstruction of the conventional systems.*



# VITRO

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Gris / *Grey*

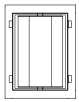
Downlight orientable para lámpara HIT-DE o QT-DE.

Adjustable downlight for HIT-DE or QT-DE lamps.

IP 20 · RF 850ºc · 0,5m · ±40º · .IES · (*) F

HIT-DE Rx7s

QT-DE R7s



103

273

206

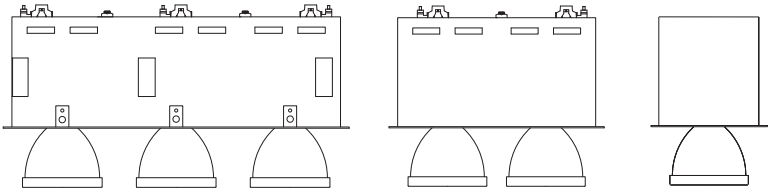
172 x 236 mm

| | CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| (*) | **DN-0276-N3-B9** | ● | HIT-DE Rx7s | 230 | 70W | - | Not inc | | 47 |
| (*) | **DN-0750-N3-B9** | ● | HIT-DE Rx7s | 230 | 150W | - | | | 61 |
| | **DN-0277-N3-B9** | ● | QT-DE R7s | 230 | max.150W | - | - | | 62 |

Equipo no incluido, a pedir separadamente, ver pág. 166

Gear not included, to be ordered separately, see page 166

# /EXTRA/



## DESCRIPCIÓN / *DESCRIPTION*

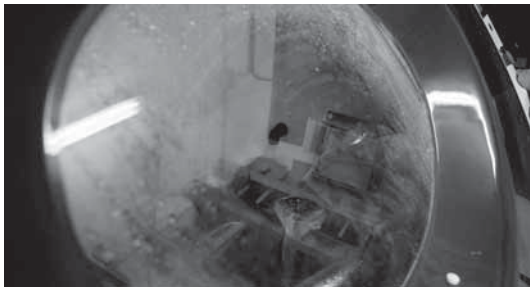
**Luminaria que combina las funcionalidades de los downlights y de los spotlights.**
**Cuerpo fabricado en chapa de acero lacada en negro.**
**Marco exterior en aluminio de fundición.**
**El compartimiento óptico dispone de un sistema de extracción (total o parcial) y de rotación de 360º para la total libertad de direccionamiento de las fuentes de luz.**
**La versión de 1 lámpara tiene el cuerpo redondo para una mayor facilidad de instalación.**
**Disponible para lámparas halógenas (QT-TC) y de descarga compactas (HIT-TC).**
**Anclajes incorporados en el cuerpo y ajustables fácilmente con un destornillador.**

*Luminaire combining the functionalities of a downlight and a spotlight.*
*Housing made of black lacquered steel.*
*Outer trim in die-cast aluminium finished in grey-silver epoxy painting.*
*The optical compartment can be completely or partly pulled out and then rotated 360º for a total freedom on the adjustment of the light direction.*
*One lamp version has a round housing for higher ease of installation.*
*Available for halogen lamps (QT-TC) and compact discharge lamps (HIT-TC).*
*Brackets integrated in the luminary housing and easy to adjust with a screwdriver.*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser utilizadas en cualquier proyecto donde se quiera combinar iluminación general y de acentuación con un producto innovador y con un excelente diseño y acabados.**

*Luminaires to be used in any general and/or accent lighting project with a very innovative product with excellent design and finishes.*



# /EXTRA/

Gris / *Grey*

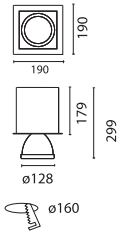
**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Downlight cuadrado para lámparas QT-TC o HIT-TC.
Square downlight for QT-TC or HIT-TC lamps.

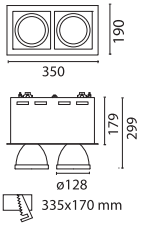
CE · F · IP 20 · 355º · 90º · RF 850ºC · 0,5m · .IES · (*) III · QT-TC G8.5 · HIT-TC G8.5

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0073-N3-00 | ● | HIT-TC G8.5 | 230 | 70W | 30º | Not inc | | 63 |
| DM-0074-N3-00 | ● | QT-TC G8.5 | 12 | 60W | 20º | | | 64 |



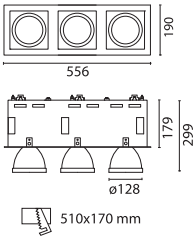
Downlight rectangular para lámparas 2xQT-TC o 2xHIT-TC.
Rectangular downlight for 2xQT-TC or 2xHIT-TC lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0075-N3-00 | ● | HIT-TC G8.5 | 230 | 2x70W | 30º | Not inc | | 63 |
| DM-0076-N3-00 | ● | QT-TC G8.5 | 12 | 2x60W | 20º | | | 64 |



Downlight rectangular para lámparas 3xQT-TC o 3xHIT-TC.
Rectangular downlight for 3xQT-TC or 3xHIT-TC lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0077-N3-00 | ● | HIT-TC G8.5 | 230 | 3x70W | 30º | Not inc | | 63 |
| DM-0078-N3-00 | ● | QT-TC G8.5 | 12 | 3x60W | 20º | | | 64 |



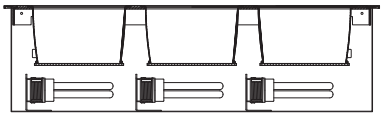

Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Sistema de orientación tipo "extracción-rotación" en toda la gama que permite obtener, en un mismo aparato, las funcionalidades combinadas de un downlight y de un spotlight (proyector).

*Orientation system type "pull-out and turn" allowing to have, in the same luminaire, the functionalities of a downlight and a spotlight.*

Posibilidad de combinaciones (QT-TC+HIT-TC) bajo pedido
*Different lamp combinations (QT-TC+HIT-TC) available upon request*

# /SATIN





## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo fabricado en chapa de acero lacada en blanco.**
**Marco exterior de aluminio acabado con pintura epoxi de color blanco.**
**Reflectores fabricados en aluminio anodizado brillante montados en una placa de acrílico opal. Este conjunto va directamente acoplado al marco exterior.**
**Disponible para 1, 2, 3 ó 4 lámparas de fluorescencia compacta TC-TEL, alimentadas por equipo electrónico multi-wattage (26-42W) incluido en la luminaria.**
**Luminarias para empotrar en falsos techos. Los anclajes son ajustables sin necesidad de herramientas.**
**El marco exterior se sujeta al cuerpo de la luminaria a través de muelles V-clip para su fácil instalación y mantenimiento.**
**Se incluye como accesorio un difusor en acrílico opal para evitar el deslumbramiento.**

*Housing made of white lacquered steel.*
*Aluminium outer trim finished with white epoxy painting.*
*High-glass anodised aluminium reflectors mounted on opal acrylic diffuser. This set is directly assembled on the aluminium trim.*
*Available for 1, 2, 3 or 4 compact fluorescent lamps TC-TEL. The multi-wattage (26-42W) gear is included with the luminaire.*
*Luminaires for recessed mounting. The ceiling brackets are adjustable without tools.*
*The outer trim remains hanged via the V-clips making the installation and maintenance operations much easier.*
*An anti-glare diffuser made in opal acrylic is included as an accessory.*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general - tiendas, oficinas, despachos, hoteles - donde el confort visual y la excelente calidad y diferenciación de los productos sean los principales requerimientos.**

*Luminaires to be used in any general lighting project - shops, offices, hotels - where visual comfort and excellent quality and differentiation of the products are the main requirements.*

# /SATIN/

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

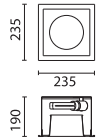
Blanco / *White*

IP 23 | RF 850ºc | 0,2m | .IES

TC-TEL GX24q-3+q-4

Downlight cuadrado con óptica fija para TC-TEL.
Square downlight for TC-TEL lamps.

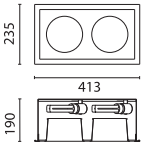
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0044-14-00** | ○ | TC-TEL GX24q-3+q-4 | 230 | 26/32/42W | - | Elect. inc | | 110 |




217 x 217 mm

Downlight rectangular con ópticas fijas para 2 TC-TEL.
Rectangular downlight for 2xTC-TEL lamps.

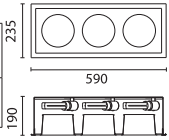
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0045-14-00** | ○ | TC-TEL GX24q-3+q-4 | 230 | 2x26/32/42W | - | Elect. inc | | 111 |




395 x 217 mm

Downlight rectangular con ópticas fijas para 3 TC-TEL.
Rectangular downlight for 3xTC-TEL lamps.

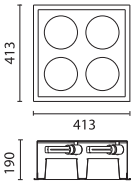
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0046-14-00** | ○ | TC-TEL GX24q-3+q-4 | 230 | 3x26/32/42W | - | Elect. inc | | 112 |




572 x 217 mm

Downlight cuadrado con ópticas fijas para 4 TC-TEL.
Square downlight for 4xTC-TEL lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0047-14-00** | ○ | TC-TEL GX24q-3+q-4 | 230 | 4x26/32/42W | - | Elect. inc | | 113 |




395 x 395 mm

El reflector de aluminio anodizado conjuntamente con el difusor en acrílico opal, nos ofrece un buen rendimiento y un excelente confort visual (luz suave). Incorpora difusor de metacrilato para evitar visión directa de las lámparas.

*The anodised aluminium reflector together with the opal acrylic diffuser give a good efficiency and an excellent visual comfort (soft light).*
*Acrylic diffuser included to avoid direct vision of the lamps.*

El marco exterior se puede fijar a uno de los lados, facilitando las operaciones de instalación y mantenimiento.

*Outer trim can be hanged from one side making the installation and maintenance operations easier.*

# /SATIN EVOLUTION/

Blanco / *White*

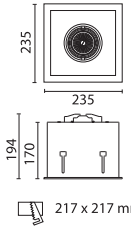


Downlight cuadrado para iluminación combinada general y/o de acentuación para TC-DEL y QR-70.
Square downlight for combined general and/or accent lighting with TC-DEL and QR-70 lamps.

IP 20 | RF 850°c | 0,5m | ±40° | .IES

TC-DEL G24q-2
QR-70 BA15 d

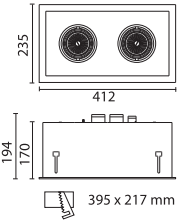
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0058-14-00** | ○ | TC-DEL G24q-2 | 230 | 2x18W | - | Elect. inc | | 114 |
| | | QR-70 BA15 d | 230 | max.50W | - | | | |




Downlight rectangular para iluminación combinada general y/o de acentuación para TC-L y QR-70.
Rectangular downlight for combined general and/or accent lighting with TC-l and QR-70 lamps.

TC-L 2G11
QR-70 BA15 d

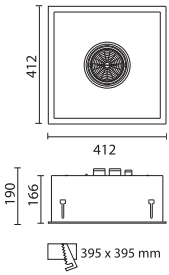
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0059-14-00** | ○ | TC-L 2G11 | 230 | 2x24W | - | Elect. inc | | 115 |
| | | QR-70 BA15 d | 230 | max.2x50W | - | | | |




Downlight cuadrado para iluminación combinada general y/o de acentuación para T5c y QR-111.
Square downlight for combined general and/or accent lighting with T5c y QR-111 lamps.

T5C-2GX13
QR-111 G53

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0060-14-00** | ○ | T5C-2GX13 | 230 | (22+40) W | - | Elect. inc | | 116 |
| | | QR-111 G53 | 230 | max.65W | - | | | |



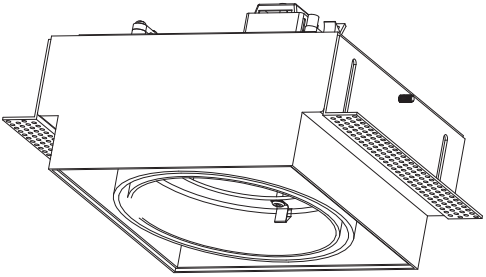
**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

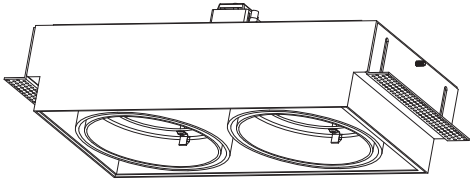
***See Photometric data on page 174 and equivalent lamps table on page 183.***

Utilización de las innovadoras y eficientes lámparas T5C para un buen rendimiento y una distribución homogénea de la luz sobre el difusor opal.

*Use of the innovative T5C lamps for a good efficiency and a homogeneous light distribution on the opal diffuser.*

# /MULTIDIR/





## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo fabricado en chapa de acero lacada en negro.**
**Marco exterior en fundición de aluminio acabado en color gris/plata.**
**Sistema cardan para total libertad de direccionamiento de los haces de luz.**
**Disponible para lámparas halógenas ( QR-111, QR-CBC51).**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas para una total facilidad de instalación.**

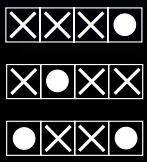
*Housing made of black lacquered steel.*
*Outer trim in die-cast aluminium finished in grey-silver epoxy painting.*
*Cardan type orientation system for total freedom to adjust the light direction.*
*Available for halogen lamps ( QR-111, QR-CBC51).*
*Brackets integrated in the luminary housing and adjustable without tools.*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general, ambiental y/o acentuación - tiendas, oficinas u hoteles, - donde la excelente calidad de los productos sean los principales requerimientos.**

*Luminaires to be used in any general, environmental or accent lighting project - shops, offices hotels - where the excellent quality of the products are the main requirements.*

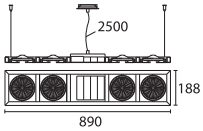
Gris / *Grey*



Posibilidad de combinaciones
(QR-111+CDM-R111) bajo pedido

*Different lamp combinations*
*(QR-111+CDM-R111) available*
*upon request*

Luminaria decorativa para 4xQR-111
Decorative suspended luminaire for QR-111 lamp.



QR-111 G53

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0105-N3-00** | ● | QR-111 G53 | 230 | max.4x65W | - | Elect. inc | | 09-11 |

# MULTIDIR

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Blanco / *White* Gris / *Grey*

Posibilidad de combinaciones (QR-111+CDM-R111) bajo pedido

*Different lamp combinations (QR-111+CDM-R111) available upon request*

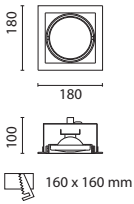
CE | F | III | IP 20 | RF 850°c | 0,5m | ±40° | .IES

(*) Para QR-111>65W
For QR-111>65W

QR-111 G53

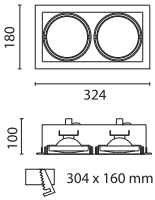
Downlight cuadrado para QR-111.
Square downlight for QR-111 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0061-N3-00** | ● | QR-111 G53 | 12 | max.100W | - | Not inc | | 09-14 |
| **DM-0061-14-00** | ○ | QR-111 G53 | 12 | max.100W | - | | | |



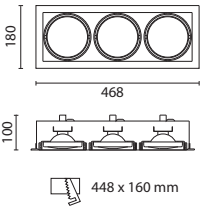

Downlight rectangular para 2xQR-111.
Rectangular downlight for 2xQR-111 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0062-N3-00** | ● | QR-111 G53 | 12 | max. 2x100W | - | Not inc | | 09-14 |
| **DM-0062-14-00** | ○ | QR-111 G53 | 12 | max. 2x100W | - | | | |



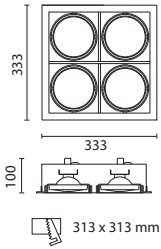

Downlight rectangular para 3xQR-111.
Rectangular downlight for 3xQR-111 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0063-N3-00** | ● | QR-111 G53 | 12 | max. 3x100W | - | Not inc | | 09-14 |
| **DM-0063-14-00** | ○ | QR-111 G53 | 12 | max. 3x100W | - | | | |




Downlight cuadrado para 4xQR-111. 0,8m
Square downlight for 4xQR-111 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0064-N3-00** | ● | QR-111 G53 | 12 | max. 4x100W | - | Not inc | | 09-14 |
| **DM-0064-14-00** | ○ | QR-111 G53 | 12 | max. 4x100W | - | | | |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Blanco / *White*

Gris / *Grey*

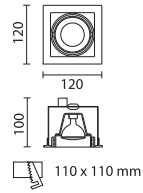
IP 20 | RF 850ºc | 0,5m | ±40º | .IES

(*) Para QR-CBC51≤35W
For QR-CBC51≤35W

QR-CBC51 GU5.3

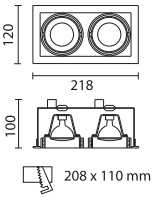
Downlight cuadrado para QR-CBC51.
Square downlight for QR-CBC51 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0053-N3-00 | ● | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| DM-0053-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | | | |



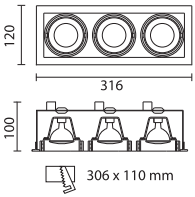

Downlight rectangular para 2xQR-CBC51.
Rectangular downlight for 2x QR-CBC51 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0054-N3-00 | ● | QR-CBC51 GU5.3 | 12 | max. 2x50W | - | Not inc | | 01-08 |
| DM-0054-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 2x50W | - | | | |



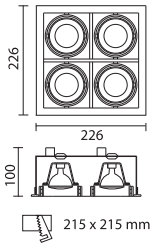

Downlight rectangular para 3xQR-CBC51.
Rectangular downlight for 3x QR-CBC51 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0055-N3-00 | ● | QR-CBC51 GU5.3 | 12 | max. 3x50W | - | Not inc | | 01-08 |
| DM-0055-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 3x50W | - | | | |



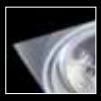

Downlight cuadrado para 4xQR-CBC51.
Square downlight for 4x QR-CBC51 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0056-N3-00 | ● | QR-CBC51 GU5.3 | 12 | max. 4x50W | - | Not inc | | 01-08 |
| DM-0056-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 4x50W | - | | | |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

# /MULTIDIR TRIMLESS/

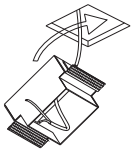


Blanco / *White*

Negro / *Black*

Posibilidad de combinaciones (QR-111+CDM-R111) bajo pedido
*Different lamp combinations (QR-111+CDM-R111) available upon request*

Kit de montaje incluido. Ver instrucciones de montaje en pág. 171
Mounting kit included. See mounting instructions on pag. 171



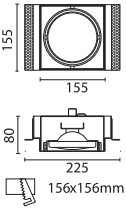
IP 20 | RF 850ºc | 0,5m | ±40° | IES

(*) Para QR-111>65W
For QR-111>65W

QR-111 G53

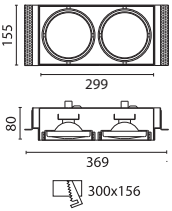
Downlight cuadrado para QR-111.
Square downlight for QR-111 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0081-14-00** | ○ | QR-111 G53 | 12 | max.100W | - | Not inc | | 09-14 |
| **DM-0081-60-00** | ● | QR-111 G53 | 12 | max.100W | - | | | |



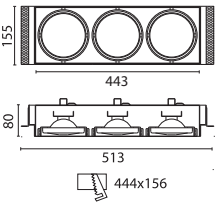

Downlight rectangular para 2xQR-111.
Rectangular downlight for 2xQR-111 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0082-14-00** | ○ | QR-111 G53 | 12 | max. 2X100W | - | Not inc | | 09-14 |
| **DM-0082-60-00** | ● | QR-111 G53 | 12 | max. 2X100W | - | | | |



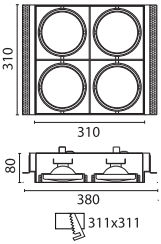

Downlight rectangular para 3xQR-111.
Rectangular downlight for 3xQR-111 lamps.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0083-14-00** | ○ | QR-111 G53 | 12 | max. 3X100W | - | Not inc | | 09-14 |
| **DM-0083-60-00** | ● | QR-111 G53 | 12 | max. 3X100W | - | | | |




Downlight cuadrado para 4xQR-111. 0,8m
Square downlight for 4xQR-111 lamps.

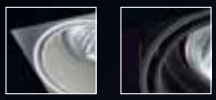
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0084-14-00** | ○ | QR-111 G53 | 12 | max. 4X100W | - | Not inc | | 09-14 |
| **DM-0084-60-00** | ● | QR-111 G53 | 12 | max. 4X100W | - | | | |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*



Blanco / *White* Negro / *Black*

IP 20 | RF 850ºC | 0,5m | ±10º | IES

(*) Para QR-CBC51≤35W / For QR-CBC51≤35W

QR-CBC51 GU5.3

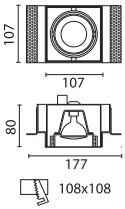
Kit de montaje incluido. Ver instrucciones de montaje en pág. 171

Mounting kit included. See mounting instructions on pag. 171

Downlight cuadrado para QR-CBC51.

Square downlight for QR-CBC51 lamp.

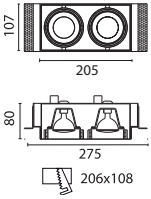
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0093-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| DM-0093-60-00 | ● | QR-CBC51 GU5.3 | 12 | max.50W | - | | | |




Downlight rectangular para 2xQR-CBC51.

Rectangular downlight for 2xQR-CBC51 lamps.

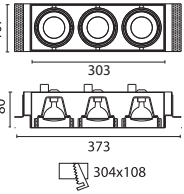
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0094-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 2X50W | - | Not inc | | 01-08 |
| DM-0094-60-00 | ● | QR-CBC51 GU5.3 | 12 | max. 2X50W | - | | | |




Downlight rectangular para 3xQR-CBC51.

Rectangular downlight for 3xQR-CBC51 lamps.

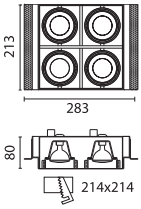
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0095-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 3X50W | - | Not inc | | 01-08 |
| DM-0095-60-00 | ● | QR-CBC51 GU5.3 | 12 | max. 3X50W | - | | | |




Downlight cuadrado para 4xQR-CBC51

Square downlight for 4xQR-CBC51 lamps.

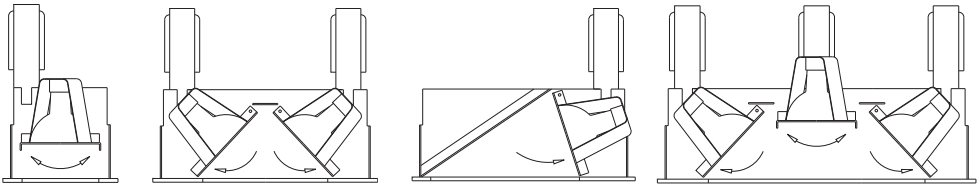
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-0096-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max. 4X50W | - | Not inc | | 01-08 |
| DM-0096-60-00 | ● | QR-CBC51 GU5.3 | 12 | max. 4X50W | - | | | |




Equipo no incluido, a pedir separadamente, ver pág. 166

Gear not included, to be ordered separately, see page 166

# /MINI/



## DESCRIPCIÓN / *DESCRIPTION*

**Pequeños downlights para lámpara(s) QR-CBC51 o QPAR 16**
**Cuerpo redondo o cuadrado en chapa de acero lacada en negro, marco exterior en chapa metálica acabado en color gris/plata.**
**Muelle de fijación de la lámpara en acero inoxidable con alta resistencia a la deformación mecánica.**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas.**

*Small recessed luminaires for QR-CB51 or QPAR 16.*
*Housing made of black lacquered steel.*
*Round or Square housing, with outer trim made of steel finished in grey-silver epoxy painting.*
*Inox lamp fixation spring with great resistance to deformations.*
*Brackets integrated in the housing and adjustable without tools.*

## APLICACIÓN / *APPLICATIONS*

**Diferentes configuraciones – cuadrado, asimétrico y multilámpara - perfecta para ambientes domésticos y comerciales.**

*Different configurations – square, asymmetric and multilamp –suitable for integration in domestic and commercial environments.*

Gris / *Grey*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

IP 20 | RF 850°C | 0,5m | ±20° | IES

(*) Para QPAR-16
For QPAR-16

(*) Para QR-CBC51≤35W
For QR-CBC51≤35W

QPAR-16 GU10

QR-CBC51 GU5.3

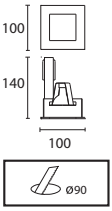
* DM-1105-N3-00
DM-1106-N3-00

Instalación rápida y fácil
Quick and easy installation

Downlight cuadrado con cuerpo redondo para QR-CBC51 / QPAR-16.
Square downlight with round body for QR-CBC51 lamp / QPAR-16 lamp.

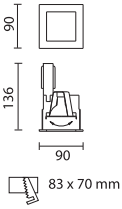
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-1105-N3-00** | | QR-CBC51 GU5.3 | 12 | max. 50W | _ | Not inc | | 01-08 |
| **DM-1106-N3-00** | | QPAR-16 GU10 | 230 | max. 50W | _ | - | | 134 |

Downlight entregado en 2 cajas separadas/ Downlight with 2 seperate boxes included



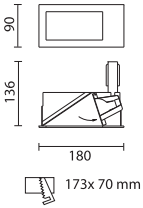

Downlight cuadrado para QR-CBC51.
Square downlight for QR-CBC51 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0048-N3-00** | | QR-CBC51 GU5.3 | 12 | max. 50W | - | Not inc | | 01-08 |



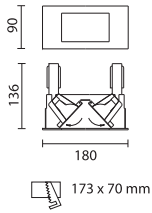

Downlight rectangular, haz asimétrico para QR-CBC51.
Rectangular downlight for QR-CBC51 lamp with asymmetric position.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0049-N3-00** | | QR-CBC51 GU5.3 | 12 | max. 50W | - | Not inc | | 01-08 |



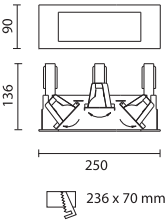

Downlight rectangular para 2xQR-CBC51.
Rectangular downlight for 2x QR-CBC51 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0050-N3-00** | | QR-CBC51 GU5.3 | 12 | max. 2x50W | - | Not inc | | 01-08 |




Downlight rectangular para 3xQR-CBC51.
Rectangular downlight for 3x QR-CBC51 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-0051-N3-00** | | QR-CBC51 GU5.3 | 12 | max. 3x50W | - | Not inc | | 01-08 |




Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

# /MINI EVOLUTION/

Design by:
JOSEP PATSI

## DESCRIPCIÓN / *DESCRIPTION*

**Elegante downlight de alto confort visual para evitar deslumbramientos, utiliza lámparas QR-CBC51 y QPAR-16**
**Con cuerpo redondo y marco exterior cuadrado de ZAMAC con los vértices redondeados. Preparado para lámpara LED.**
**Acabados en blanco y gris.**
**Muelle de fijación de la lámpara en acero inoxidable con alta resistencia a la deformación mecánica.**
**Anclajes incorporados en el cuerpo y ajustables sin necesidad de herramientas.**

*Elegant visual comfort downlight to avoid glare, use QR-CBC51 and QPAR-16 lamps.*
*Round housing with outer trim in ZAMAC with rounded edge. Suitable for LED lamps.*
*Grey and white finished.*
*Inox lamp fixation spring with great resistance to deformations.*
*Brackets integrated in the housing and adjustable without tools.*

## APLICACIÓN / *APPLICATION*

**Ideal para aplicaciones de iluminación general en tiendas, restaurantes, hoteles y viviendas**

*Ideal for general lighting applications such as shops, restaurants, hotels and homes.*

Gris / *Grey*

Blanco / *White*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

* Instalación rápida y fácil
* Quick and easy installation





Downlight para lámpara QR-CBC51/ QPAR-16.
Fixed downlight for QR-CBC51 lamps/ QPAR-16 lamp.

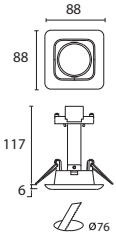
CE | F | IP 20 | RF 850°c | 0,5m | .IES

Para QR-CBC51 GU5.3
For QR-CBC51 GU5.3

Para QPAR-16 GU10
For QPAR-16 GU10

QR-CBC51 GU5.3

QPAR-16 GU10

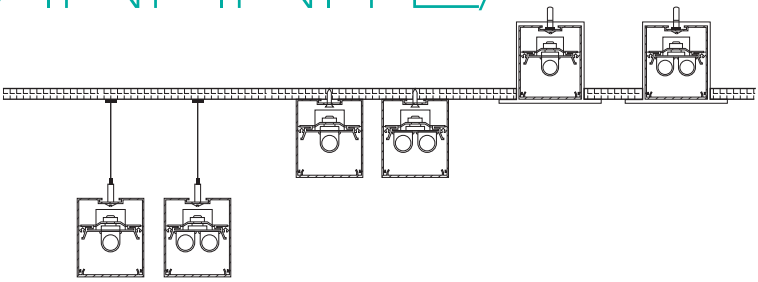


| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-1107-14-00 | ○ | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| | | QPAR-16 GU10 | 230 | | - | - | | 134 |
| DM-1107-N3-00 | ● | QR-CBC51 GU5.3 | 12 | max.50W | - | Not inc | | 01-08 |
| | | QPAR-16 GU10 | 230 | | - | - | | 134 |

2 portalámparas incluidos
2 lamp holders included

Equipo no incluido, a pedir separadamente, ver pág. 166
Gear not included, to be ordered separately, see page 166

# /INFINITE/





## DESCRIPCIÓN / *DESCRIPTION*

**Luminaria para lámparas T5 H.O (39W-54W-80W) de montaje en el techo, suspensión o empotrado, con un perfil rectangular y de diseño minimalista. Fabricado en extrusión de aluminio con difusores de policarbonato para un alto confort visual o con difusor de doble parabólica, que proporciona un alto rendimiento con un índice de deslumbramiento mínimo ideal para lugares de trabajo.**
**Incorpora un reflector de aluminio de alta pureza (99%) y balastro electrónico.**
**Acabado en gris para las versiones de suspensión y adosadas, y en blanco para versiones empotradas.**
**Posibilidad de crear una iluminación homogénea a lo largo de toda una línea evitando cortes de luz.**

*Surface mounted luminaire suspended and recessed for T5 H.O (39W-54W-80W) with rectangular profile and minimalist design, made of extruded aluminium with polycarbonate and double parabolic diffuser providing an excellent luminous comfort and high efficiency suitable for working areas.*

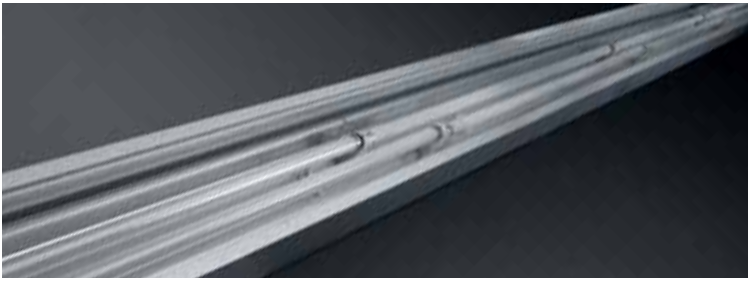
*High purity aluminium reflector (99%) and electronic gear.*
*Grey finish for both surface mounted and suspended versions and white for recessed versions.*
*There is the possibility to create continuous homogeneous illumination along the entire length of the row avoiding dark spots.*

## APLICACIÓN / *APPLICATION*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general o ambiental, zonas comerciales, oficinas, hoteles, y también para ser usadas como iluminación en zonas específicas de trabajo donde se necesite un nivel lumínico superior al de la iluminación general – recepciones, mostradores, etc.**

*Luminaries to be used in any general or environmental lighting projects in shops, offices, hotels, etc., and also as task lighting in receptions, counters, cashiers, etc.*





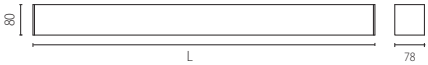
# /INFINITE/

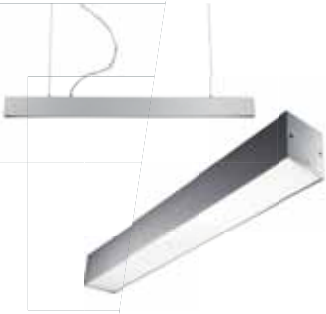
Blanco / *White* Gris / *Grey*

CE F 230 Volt. IP 20 RF 850°c IES TL5 G5

Todas las luminarias vienen suministradas con tapas y balastro electrónico.
All luminaires are supplied with end caps and electronic ballast.

## Luminaria suspendida/adosada para T5 H.O.
Surface mounted/ suspended luminaire for T5 H.O.



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | DIFUSOR DIFFUSER | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| AD-0656-N3-00 | | T5 | 39W | Elect. inc | Doble parabólica Double parabolic | 900 mm. | | 136 |
| AD-0659-N3-00 | | | | | Policarbonato Polycarbonate | | | 139 |
| AD-0657-N3-00 | | | 54W | | Doble parabólica Double parabolic | 1200 mm. | | 137 |
| AD-0660-N3-00 | | | | | Policarbonato Polycarbonate | | | 140 |
| AD-0658-N3-00 | | | 80W | | Doble parabólica Double parabolic | 1500 mm. | | 138 |
| AD-0661-N3-00 | | | | | Policarbonato Polycarbonate | | | 141 |

### ACCESORIOS/ ACCESSORIES

Kit para emportar perfil trimless (78 mm)
Recessed Kit trimless (78 mm)

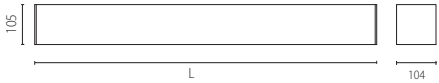
| CÓDIGO CODE | ACT-9092-00-00 |
|---|---|

2 units/ref

Kit de unión para perfil (78 mm)
Profile union kit (78 mm)

| CÓDIGO CODE | ACT-9114-00-00 |
|---|---|

## Luminaria suspendida/adosada para 2 x T5 H.O.
Surface mounted/ suspended luminaire for 2 x T5 H.O.



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | DIFUSOR DIFFUSER | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| AD-0662-N3-00 | | 2 x T5 | 2 x 39W | Elect. inc | Doble parabólica Double parabolic | 900 mm. | | 142 |
| AD-0665-N3-00 | | | | | Policarbonato Polycarbonate | | | 145 |
| AD-0663-N3-00 | | | 2 x 54W | | Doble parabólica Double parabolic | 1200 mm. | | 143 |
| AD-0666-N3-00 | | | | | Policarbonato Polycarbonate | | | 146 |
| AD-0664-N3-00 | | | 2 x 80W | | Doble parabólica Double parabolic | 1500 mm. | | 144 |

### ACCESORIOS/ ACCESSORIES

Kit para emportar perfil trimless (104 mm)
Recessed Kit trimless (104 mm)

| CÓDIGO CODE | ACT-9093-00-00 |
|---|---|

2 units/ref

Kit de union para perfil (104 mm)
Profile union kit (104 mm )

| CÓDIGO CODE | ACT-9097-00-00 |
|---|---|

### ACCESORIOS PARA VERSIÓN SUSPENDIDA
SUSPENDED VERSION ACCESSORIES

Florón
Power supply unit

| CÓDIGO CODE | ACT-9090-N3-00 |
|---|---|

Sirgas
Steel cord

| CÓDIGO CODE | ACT-9091-N3-00 |
|---|---|

2 units/ref

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Policarbonato
*Polycarbonate*

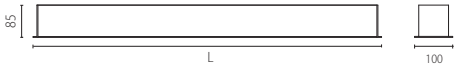
Doble parabólica
*Double parabolic*



CE | F | 230 Volt. | IP 20 | RF 850ºc | .IES | TL5 G5

Todas las luminarias vienen suministradas con tapas y balastro electrónico.
All luminaires are supplied with end caps and electronic ballast.

## Luminaria empotrada para T5 H.O.
Recessed luminaire for T5 H.O.



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | DIFUSOR DIFFUSER | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| EP-1617-14-00 | ○ | T5 | 39W | Elect. inc | Doble parabólica / Double parabolic | 917 mm. | | 136 |
| EP-1620-14-00 | ○ | | | | Policarbonato / Polycarbonate | | | 139 |
| EP-1618-14-00 | ○ | | 54W | | Doble parabólica / Double parabolic | 1217 mm. | | 137 |
| EP-1621-14-00 | ○ | | | | Policarbonato / Polycarbonate | | | 140 |
| EP-1619-14-00 | ○ | | 80W | | Doble parabólica / Double parabolic | 1517 mm. | | 138 |
| EP-1622-14-00 | ○ | | | | Policarbonato / Polycarbonate | | | 141 |

ACCESORIOS
ACCESSORIES

Incluido/ Included

Kit de unión para perfil (100 mm)
Profile union kit (100 mm)

| CÓDIGO CODE | ACT-9096-00-00 |
|---|---|

## Luminaria empotrada para 2 x T5 H.O.
Recessed luminaire for 2 x T5 H.O.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | DIFUSOR DIFFUSER | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| EP-1623-14-00 | ○ | 2 x T5 | 2 x 39W | Elect. inc | Doble parabólica / Double parabolic | 917 mm. | | 142 |
| EP-1626-14-00 | ○ | | | | Policarbonato / Polycarbonate | | | 145 |
| EP-1624-14-00 | ○ | | 2 x 54W | | Doble parabólica / Double parabolic | 1217 mm. | | 143 |
| EP-1627-14-00 | ○ | | | | Policarbonato / Polycarbonate | | | 146 |
| EP-1625-14-00 | ○ | | 2 x 80W | | Doble parabólica / Double parabolic | 1517 mm. | | 144 |

ACCESORIOS
ACCESSORIES

Incluido/ Included

Kit de unión para perfil (126 mm)
Profile union kit (126 mm)

| CÓDIGO CODE | ACT-9097-00-00 |
|---|---|

!

Luminarias, pag . 138-139, entregadas en 2 cajas separadas.
Luminaires, pages 138-139, with 2 separate boxes included.

# /INFINITE/

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

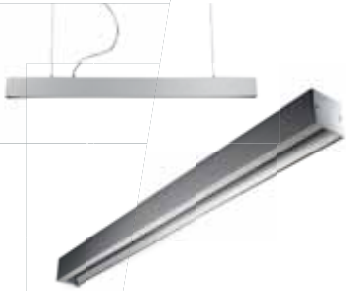
Blanco / *White*

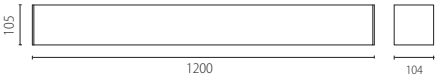
Gris / *Grey*

CE | F | 230 Volt. | IP 20 | RF 850ºc | .IES | TL5 G5

Todas las luminarias vienen suministradas con tapas y balastro electrónico.
All luminaires are supplied with end caps and electronic ballast.

## Luminaria adosada/suspendida con reflector asimetrico para T5 H.O.
Surface mounted/ suspended luminaire with asymmetrical reflector for T5 H.O.






| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|
| AD-0654-N3-00 | | T5 | 54W | Elect. inc | 1200 mm. | | 135 |

### ACCESORIOS/ ACCESSORIES

Kit para emportar perfil trimless (104 mm)
Recessed Kit trimless (104 mm)

| CÓDIGO CODE | ACT-9093-00-00 |
|---|---|

2 units/ref

Kit de union para perfil (104 mm)
Profile union kit (104 mm )

| CÓDIGO CODE | ACT-9097-00-00 |
|---|---|

### ACCESORIOS PARA VERSIÓN SUSPENDIDA
SUSPENDED VERSION ACCESSORIES

Florón
Power supply unit

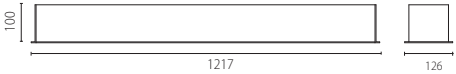
| CÓDIGO CODE | ACT-9090-N3-00 |
|---|---|

Sirgas
Steel cord

| CÓDIGO CODE | ACT-9091-N3-00 |
|---|---|

2 units/ref

## Luminaria empotrada con reflector asimetrico para T5 H.O.
Recessed luminaire with asymmetrical reflector for T5 H.O.




| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | W W | EQUIPO GEAR | LONGITUD LENGHT | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|
| EP-1615-14-00 | | T5 | 54W | Elect. inc | 1217 mm. | | 135 |

### ACCESORIOS
ACCESSORIES

Incluido/ Included

Kit de unión para perfil (126 mm)
Profile union kit (126 mm)

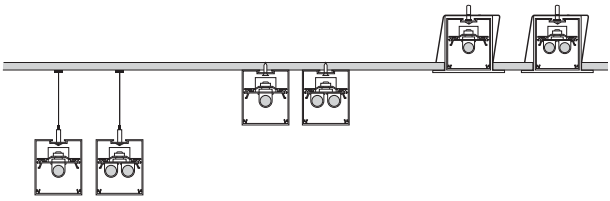
| CÓDIGO CODE | ACT-9097-00-00 |
|---|---|

/INFINITE C/

# /INFINITE C/

**SISTEMA DE ILUMINACIÓN CONTINUA CON VERSIONES DE 1 O 2 LÁMPARAS**

**CONTINUOUS LIGHT SYSTEM 1 OR 2 LAMP VERSIONS**



Suspendido/ Suspended  Adosado/ Surface mounted  Empotrado/ Recessed

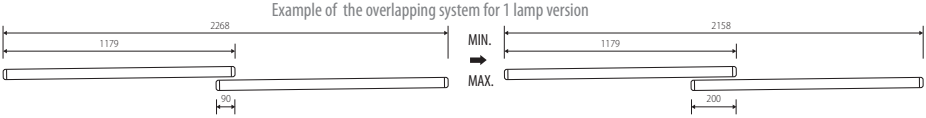
La serie INFINITE C incluye un sistema de combinación de lámparas OVERLAPPING que permite crear una iluminación homogénea a lo largo de toda una línea evitando cortes de luz. Este sistema nos proporciona una total flexibilidad para adaptarnos a cualquier medida, y/o requerimiento arquitectónico.

INFINITE C serie do to the OVERLAPPING arrangement of the lamps allows the creation of seamless, continuous homogeneous illumination along the entire length of the row avoiding dark spots. This system allows a complete flexibility of the total length of the fitting which make it adaptable to any architectural request.

**1 LÁMPARA T5/** 1 T5 LAMP

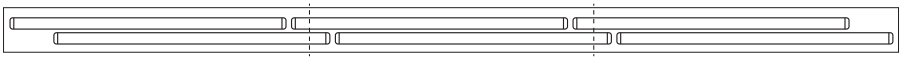
Ejemplo de una composición modular para lineal continuo con versión de 1 lámpara
Example of composition of modular recessed system with 1 lamp version

Ejemplo sistema overlapping para version con 1 lámpara
Example of the overlapping system for 1 lamp version

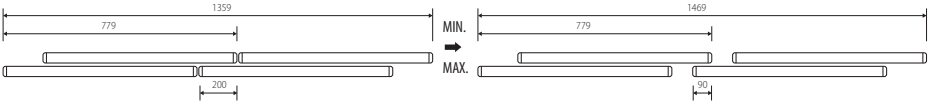



**2 LÁMPARAS T5/** 2 T5 LAMPS

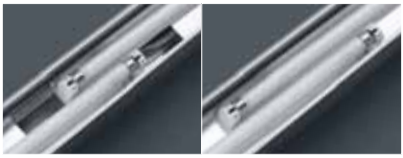
Ejemplo de una composición modular para lineal continuo con versión de 2 lámparas
Example of composition of modular recessed system with 2 lamp version



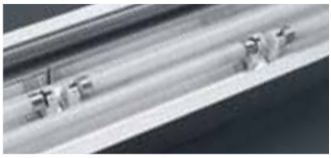
Ejemplo sistema overlapping para version con 2 lámparas
Example of the overlapping system for 2 lamp version



Fácil instalación, sin necesidad de herramientas.
Easy installation, no tools required.



Iluminación continua, versión 1 lámpara (sin sombras).
Continuous ilumination, 1 lamp version (shadow free).



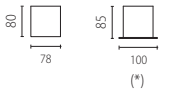
Iluminación continua, versión 2 lámparas (sin sombras).
Continuous ilumination, 2 lamp version (shadow free).

## INFORMACIÓN PARA EFECTUAR EL PEDIDO
## ORDERING INFORMATION

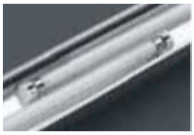
Sistema de codificación:
Codification system:

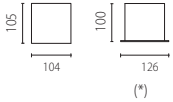
**PASO 1**/ STEP 1

Elija el perfil para 1 o 2 lámparas T5.
Choose the profil for 1 or 2 T5 lamps.

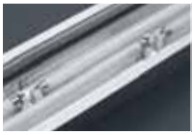



**L1:** Lineal continuo de 1 lámpara T5
Continuous lineal for 1 T5 lamp



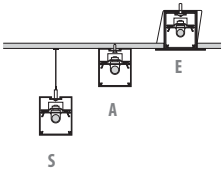



**L2:** Lineal continuo de 2 lámparas T5
Continuous lineal for 2 T5 lamps



**PASO 2**/ STEP 2

Elija su aplicación:
Choose your application:




**S:** Suspendido/ Suspended
**A:** Adosado/ Surface mounted
**E:** Empotrado/ Recessed
* Para versiones empotradas, perfil con marco.
* For recessed versions, profile with trim.

**PASO 3**/ STEP 3

Elija la longitud que necesite en milímetros (5 digitos).
Choose the length required in millimeters (5 digits).

Ejemplo/ Example:

**02530** = 2,53 metros/ 2,53 meters
**02570** = 2,57 metros/ 2,57 meters
**10680** = 10,68 metros/ 10,68 meters

**PASO 4**/ STEP 4

Haga su pedido.
Make your order.

| 1 | | 2 | | 3 |
|---|---|---|---|---|
| NRO. LÁMPARAS T5<br>#T5 LAMPS | | APLICACIÓN<br>APLICATION | | LONGITUD EN MM<br>LENGHT IN MM |
| L1<br>L2 | - | S<br>A<br>E | - | xxxxx |

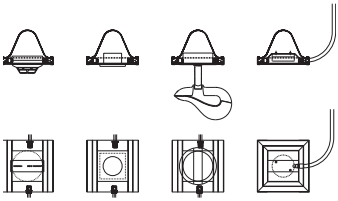
Ejemplo/ Example:

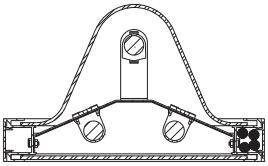
**L1-A-02530** = Lineal continuo de 1 T5 adosado de 2, 53 metros.
Surfaced mounted continuous row for 1 T5 lamp with 2,53 meters.

Para versiones con regulación DALI o 1..10V consulte con su comercial/ For versions with the Dali adjustable system or 10v please consult your sales contact
Para elegir la potencia (39W-54W-80W) consulte con su comercial/ In order to choose the desired power please consult your sales contact
Para realizar combinaciones con tramos ciegos consulte con su comercial/ In order to achieve blind sections please consult your sales contact
Para versiones empotradas con perfil sin marco consulte con su comercial/ For recessed versions trimless please consult your sales contact

# /LOMA/

Design by:
PABLO MARTINEZ





**Sistema de fluorescencia lineal preparada para conexión de dispositivos.**
***Fluorescent lineal lighting system suitable for optional devices.***

## DESCRIPCIÓN / *DESCRIPTION*

**Loma es algo más que una luminaria. Su arquitectura modular y su diseño permiten la incorporación de una variada gama de dispositivos. Equipada con lámparas T5 (39W-54W-80W) que proporcionan luz directa e indirecta para lograr un mayor confort lumínico.**

**La capacidad de unir varias luminarias permite crear un sistema lineal para adecuarlo al entorno.**

**Chasis fabricado en aluminio, difusor superior de PMMA de alta resistencia, difusor inferior prismático fabricado con nanotecnología que proporciona un alto rendimiento (90%) con un índice de deslumbramiento idóneo para puestos de trabajo con VDU (Visual Display Units). Reflector de aluminio de alta pureza (99%).**

*LOMA is more than a luminaire. Its modular architecture and its design give the possibility to incorporate a wide variety of devices. The modules are equipped with fluorescent tubes T5 (39-54-80W) that provide excellent luminous comfort through direct/indirect light emission.*

*The possibility to joint different luminaries provides the option of creating lineal systems to adapt to the dimensions of each space.*

*Made of aluminium, upper diffuser in high resistance PMMA, lower diffuser made by nanotechnology with high efficiency (90%) suitable for environments with VDU (Visual Display Units). High purity aluminium reflector (99%).*

## APLICACIÓN / *APPLICATIONS*

**Especialmente diseñada para crear de la nada un entorno confortable para oficinas, locales comerciales, escuelas o espacios con techos de gran altura.**

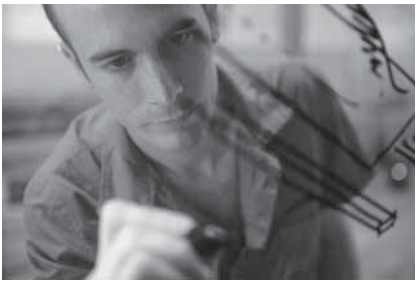
**Su diseño permite el paso de cables: voz, datos o señal, red, detección de humos etc. evitando la necesidad de realizar la instalación de éstos a través de falsos techos o suelo técnico.**
**Su versatilidad convierte el espacio de trabajo en una herramienta flexible, permitiendo el cambio de ubicación de las luminarias de forma fácil.**
**Suministrada en un sólo módulo y con la posibilidad de incorporar filtros de color, Loma se convierte en una atractiva luminaria de efecto decorativo.**

*Designed to create a comfortable environment for offices, retail shops, schools or spaces with high ceilings.*

*Its structure allows pass-through cables for voice, data or signal, ofimatics, smoke detection and so on, avoiding the need to install them through false ceilings or technical floors.*

*Its versatility turns the working area in a flexible tool, easily allowing the installation place change at anytime.*

*Supplied in a single module and with the possibility to incorporate colour filters, LOMA becomes an attractive fixture with a decorative touch.*



# /LOMAV

## MÓDULO CENTRAL

**Mantenimiento**
**El módulo principal está compuesto por una estructura en sándwich que permite una fácil apertura de la luminaria gracias a unas pestañas perfectamente integradas en la estructura de la luminaria. Esto simplifica tanto la reposición de lámparas y equipos, como la colocación de filtro cromáticos y es de gran ayuda para tareas de limpieza, manteniendo el factor de conservación.**

*CENTRAL MODULE:*

*Maintenance*
*The main module consists of a sandwich structure allowing easy opening of the luminaire through integrated brackets. That simplifies lamp and gear replacement plus the incorporation of colour filters, as well as making it easier for maintenance and keeping the LMF (Luminaire maintenance factor).*

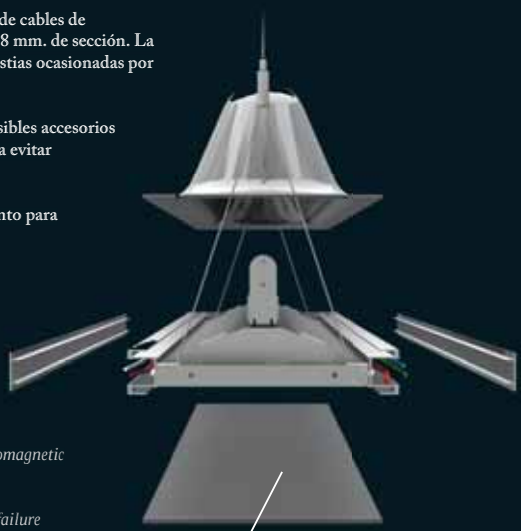
## CANALIZACIONES PARA CABLEADO

**El propio chasis de la luminaria aloja en su interior espacio para el paso de cables de comunicación, voz etc.. permitiendo el alojamiento de hasta 4 cables de 8 mm. de sección. La luminaria cuenta con dos canales para evitar, si fuera necesario, las molestias ocasionadas por incompatibilidad electromagnética.**

**Los cables de alimentación de red, tanto de la luminaria como de los posibles accesorios que se incorporen en los módulos, se alojan en el interior de la pieza para evitar interferencias.**

**La tapas laterales permiten que el cableado sea fácilmente registrable tanto para su instalación como para el diagnóstico de fallos.**

**La interconexión eléctrica entre los módulos se realiza mediante conectores rápidos de 5 polos.**



*CABLE CONDUCTION*

*The structure of the luminaire holds internally a space for cable conduction of voice, data or signal, … allowing up to 4 cables of 8 mm section each. There are two conductions to avoid, if needed, inconveniences caused by electromagnetic incompatibility.*

*The end caps allow the cabling to be easily installed or removed for testing or failure diagnostics.*

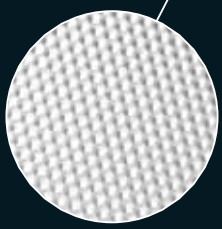
*The power supply cables, both of the luminaire and optional accessories, are allocated independently inside the fitting to avoid any electrical interferences.*

*The electrical interconnection of the different modules is done through 5 pole fast connectors.*

## DIFUSOR:

**Su difusor prismático en PMMA fabricado con nanotecnología aporta un alto rendimiento (90%) y un excelente confort lumínico UGR (Índice de deslumbramiento unificado) de 18,5%**

*DIFFUSER:*
*Its prismatic PMMA diffuser made by nanotechnology provides high efficiency (90º) plus and excellent luminous comfort UGR (Unified Glare Rating) 18,5%.*



## MÓDULO PARA ACCESORIOS *

**El módulo para accesorios se suministra con una tapa ciega de fácil troquelado mediante sierra o coronas como si de un falso techo se tratara, dejando disponible en su interior un espacio para la incorporación de los dispositivos que se considere oportuno: megafonía, video, detección de humos, proyectores adicionales, downlights, ...**

*MODULE FOR ACCESSORIES **

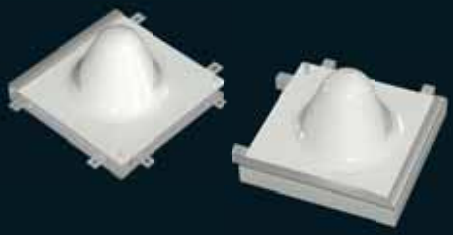
*The module for accessories is supplied with a blank cover that can be easily cut by a saw as if it were a false ceiling, leaving an empty space for any desired device: speaker, video camera, smoke detector, spotlight, downlight, ...*

**altavoz, detectores de humo, ...**

*speaker, smoke detector, ...*

*** Para la incorporación de dispositivos consulte los requirimientos técnicos necesarios.**

** To incorporate external devices please check the technical requirements needed.*



## MÓDULOS "T" Y "L"

**Los módulos T y L permiten una gran versatilidad de instalación convirtiendo a LOMA en un sistema de iluminación y cableado vivo y dotándola de una infinidad de posibles configuraciones.**

*MODULES FOR T-SHAPED AND L-SHAPED CORNER JOINT*

*The corner joint modules confer great versatility to the LOMA lighting system and the wide range of accessories add many possible configurations for a multitude of lighting requirements.*

## SISTEMA DE SUSPENSIÓN:

**El sistema de suspensión mediante cables es regulable en altura (máx. 2,2m.) y permite un sencillo equilibrado de la luminaria en el espacio. Para otras longitudes consultar.**

*SUSPENSION SYSTEM:*

*The suspension system is adjustable in height (max. 2,2m) through cables allowing an easy adjustment and balance.*

## ALIMENTACIÓN:

**La acometida eléctrica se realiza mediante 1 o varias tomas de alimentación dependiendo de las características de la configuración.**

*POWER SUPPLY UNIT*

*The power supply connection is arranged through 1 or several units (take into account voltage drops).*

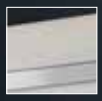
## INTERCONEXIÓN MECÁNICA DE LOS MÓDULOS:

**El acople entre los módulos se realiza mediante tornillería. La ejecución es sencilla y proporciona una unión firme y limpia.**

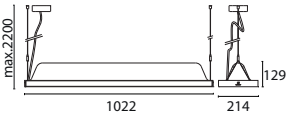
*THE MECHANICAL INTERCONNECTION OF THE MODULES:*

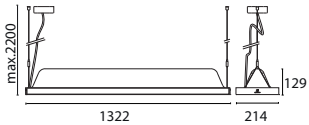
*The module coupling is easily arranged through different screws. It is trouble free and solid and reliable at the same time.*

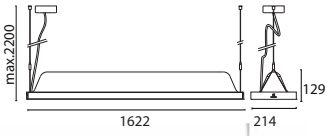
# /LOMAV

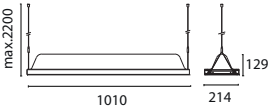


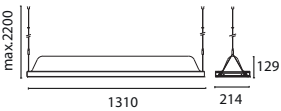
Gris / *Grey*

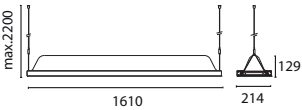


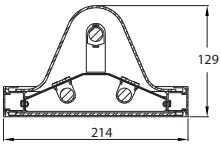








**MÓDULOS INDIVIDUALES:**
**INDIVIDUAL MODULES:** TL5 G5

Módulo de suspensión. Equipado para tubos T5. Se suministra con testeros (tapas), toma de alimentación y cables de suspensión.
Suspended module. Using T5 fluorescent lamps. Supplied with end caps and power supply unit with suspension cables.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-1801-N3-B9** | | TL5 G5 | 230 | 3x39W | - | Elect. inc | | * |
| **SP-1802-N3-B9** | | TL5 G5 | 230 | 3x54W | - | | | * |
| **SP-1803-N3-B9** | | TL5 G5 | 230 | 3x80W | - | | | * |

**MÓDULOS CENTRALES PARA LÍNEA CONTINUA:**
**CENTRAL MODULES FOR LINED UP SERIES:** TL5 G5

Módulo de suspensión. Equipado para tubos T5. NO se incluyen los testeros (tapas), ni la toma de alimentación. A pedir separadamente.
Suspended module. Using T5 fluorescent lamps. End caps and power supply unit NOT included (to be ordered separately).

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-1805-N3-B9** | | TL5 G5 | 230 | 3x39W | - | Elect. inc | | * |
| **SP-1806-N3-B9** | | TL5 G5 | 230 | 3x54W | - | | | * |
| **SP-1807-N3-B9** | | TL5 G5 | 230 | 3x80W | - | | | * |

(*) Consultar / (*) Consult

**Para versiones con Regulación 1...10V, PUSH-PULL, DALI o con equipo de alimentación auxiliar tipo emergencia, rogamos consulten disponibilidad.**
**Dimmable 1...10V, Push-Pull, DALI or electronic with emergency lighting versions upon request.**

Florón
Power supply unit

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9083-N3-00 | ● |

L=2500 mm

Tapa final
End cap

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9084-N3-00 | ● |

Sirga
Steel cable

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9085-N3-00 | ● |

L=2000 mm

Cubrecables vertebral transparente
Transparent vertebral cable wrap

| CÓDIGO CODE |
|---|
| ACT-9086-00-00 |

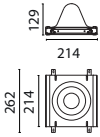
L=720 mm

## ACCESORIOS DE CONEXIÓN
## CONNECTING ACCESSORIES

### MÓDULO DE UNIÓN Y/O INCORPORACIÓN DE DISPOSITIVOS
### MODULES TO COMBINE LUMINAIRES AND/OR INCORPORATE EXTERNAL DEVICES

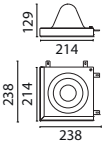
Módulo en línea continua
Lined up module

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9080-N3-B9 | ● |



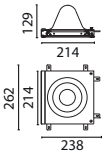
Módulo para curvado en codo forma "L" (90º)
Module for L-shaped corner joint (90º)

| | |
|---|---|
| ACT-9081-N3-B9 | ● |



Módulo para derivación en forma de "T"
Module for T-shaped corner joint (3 way)

| | |
|---|---|
| ACT-9082-N3-B9 | ● |




## FILTROS DE COLORES
## COLOUR FILTERS

Filtro para T5 39W/ Filter for T5 39W

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9087-08-00 | ● |
| ACT-9087-25-00 | ● |
| ACT-9087-11-00 | ● |
| ACT-9087-24-00 | ● |

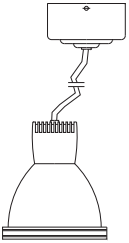
Filtro para T5 54W/ Filter for T5 54W

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9088-08-00 | ● |
| ACT-9088-25-00 | ● |
| ACT-9088-11-00 | ● |
| ACT-9088-24-00 | ● |

Filtro para T5 80W/ Filter for T5 80W

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| ACT-9089-08-00 | ● |
| ACT-9089-25-00 | ● |
| ACT-9089-11-00 | ● |
| ACT-9089-24-00 | ● |

# /FILIPA/



## DESCRIPCIÓN / *DESCRIPTION*

**Tres versiones para satisfacer las más variadas aplicaciones y necesidades lumínicas:**
**FILIPA SMALL, una suspensión de reducido tamaño y excelente diseño, disponible para lámpara hológena QT-TC con transformador incluido, totalmente fabricada en aluminio. Equipo de funcionamiento a pedir separadamente.**
**FILIPA MEDIUM SEMITRASLUCIDA, una suspensión pequeña y armoniosa, disponible para lámpara halógena MASTERline-TC (transformador electrónico integrado en el cuerpo de la luminaria) o para lámpara fluorescente compacta E27, cuyo reflector tipo campana está compuesto por dos partes: la superior en cristal templado arenado y la inferior en aluminio anodizado con acabado facetado.**
**FILIPA PROFESIONAL, una suspensión de tamaño mediano, disponible para lámpara de halogenuros HIT-T de 70W (equipo magnético o electrónico incorporado) o para lámpara fluorescente compacta PL-H (equipo electrónico incorporado) y E-27. Reflector tipo campana en tres versiones diferentes:**
**- compuesto por dos partes: la superior en cristal templado mate y la inferior en aluminio anodizado con acabado facetado.**
**- aluminio anodizado exterior e interior lacado en blanco.**
**- policarbonato prismático con marco inferior en aluminio inyectado color gris.**

*Three versions available to cover the most applications and lighting needs:*
*FILIPA SMALL, a suspended luminaire of very reduced size, totally made of aluminium and available for halogen lamp QT-TC. Electronic transformer included.*
*FILIPA MEDIUM SEMITRANSLUCED, a small and harmonious suspended luminaire, available for MASTERline-TC halogen lamp (electronic transformer integrated in the housing) or for compact fluorescent with E27 base, which reflector is composed of two parts: top reflector made of matt glass and bottom reflector in facetted anodised aluminium.*
*FILIPA PROFESSIONAL, a medium sized suspension, available for HIT-T 70W (magnetic or electronic gear supplied in the housing) or for the fluorescent compact PL-H (electronic gear included in the housing) and E-27. Reflectors available in three different versions:*
*- composed of two parts: top reflector made of white matt glass and bottom reflector in facetted anodised aluminium*
*- anodised aluminium in the outside and white lacquered in the inside*
*- prismatic polycarbonate with grey injected aluminium lower trim*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación general o ambiental en zonas comerciales, oficinas, hoteles, y también para ser usadas como iluminación de zonas específicas de trabajo donde se necesite un nivel lumínico superior al de la iluminación general – recepciones, mostradores, etc.**

*Luminaires to be used in any general or environmental lighting project in shops, offices, hotels, etc., and also as task lighting in receptions, counters, cashiers, etc.*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

***See Photometric data on page 174 and equivalent lamps table on page 183.***

Gris / *Grey*

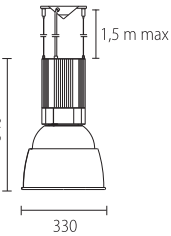
Luminaria suspendida para PL-H, HIT-T o E-27.
Suspended luminaire for PL-H, HIT-T lamp or E-27.

Reflector aluminio facetado + cristal opal.
Faceted aluminium reflector + opal glass.

IP 20 | RF 850ºc | 0,5m | .IES

HIT-T G12 | PL-H 2G8 | E-27

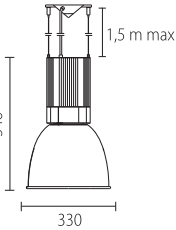
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0089-N3-B9** | | HIT-T G12 | 230 | 70W | - | Mag. inc | | 84 |
| **SP-0090-N3-B9** | | HIT-T G12 | 230 | 70W | - | Elect. inc | | 84 |
| **SP-0091-N3-B9** | | PL-H 2G8 | 230 | max. 120W | - | | | 85 |
| **SP-0092-N3-B9** | | E-27 | 230 | max. 150W | - | - | | * |



Luminaria suspendida para PL-H, HIT-T o E-27.
Suspended luminaire for PL-H, HIT-T or E-27 lamp.

Reflector aluminio anodizado + cristal opal.
Anodised aluminium reflector + opal glass.

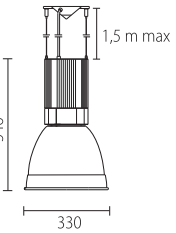
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0089-N3-S2** | | HIT-T G12 | 230 | 70W | 40º | Mag. inc | | 86 |
| **SP-0090-N3-S2** | | HIT-T G12 | 230 | 70W | 40º | Elect. inc | | 86 |
| **SP-0091-N3-S2** | | PL-H 2G8 | 230 | max. 120W | 120º | | | * |
| **SP-0092-N3-S2** | | E-27 | 230 | max. 150W | 60º | - | | 131 |



Luminaria suspendida para PL-H, HIT-T o E-27.
Suspended luminaire for PL-H, HIT-T or E-27 lamp.

Reflector en policarbonato.
Polycarbonate reflector.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0089-N3-37** | | HIT-T G12 | 230 | 70W | 80º | Mag. inc | | 128 |
| **SP-0090-N3-37** | | HIT-T G12 | 230 | 70W | - | Elect. inc | | 129 |
| **SP-0091-N3-37** | | PL-H 2G8 | 230 | max. 120W | 120º | | | 130 |
| **SP-0092-N3-37** | | E-27 | 230 | max. 150W | - | - | | * |




Cierre incluido en versión reflector en policarbonato.
Luminaire cover included for the policarbonate reflector's version.

(*) Consultar
(*) Consult

# /FILIPAV

Gris / *Grey*

**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

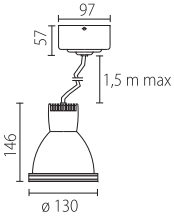
Luminaria suspendida para QT-TC.
Decorative suspended luminaire for QT-TC lamp.

Reflector aluminio.
Aluminium reflector.

CE | F | IP 40 | RF 850ºc | 0,5m | .IES

QT-TC G8.5

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0108-N3-37** | ● | QT-TC G8.5 | 230 | max. 60W | 45º | Elect. inc | | 132 |



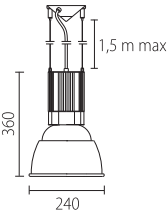
Luminaria suspendida para E-27 o QT-TC.
Decorative suspended luminaire for E-27 or QT-TC lamp.

Reflector aluminio facetado + cristal opal.
Faceted aluminium reflector + opal glass.

QT-TC G8.5 | E-27

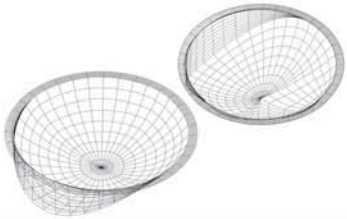
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **SP-0088-N3-B9** | ● | E-27 | 230 | max. 60W | 80º | - | | * |

(*) Consultar
(*) Consult



# /CLAM

Design by:
PABLO MARTINEZ



## DESCRIPCIÓN / *DESCRIPTION*

**Cuerpo metálico acabado en pintura epoxi de color blanco. Vano óptico realizado en chapa doblada con acabado blanco, con reflector incorporado de aluminio de alta pureza (99%).**
**Disponible en 2 diámetros: 200 y 400mm. con fuentes de luz FLC y Halógenas (para versión LED RGB consultar).**
**El cuerpo va fijado a un marco de preinstalación suministrado (ver instrucciones de montaje en pág.171) que permite la rotación de la luminaria para un enfoque óptimo del flujo luminoso a la vez que integra la pieza perfectamente en el entorno (concepto trimless). Los equipos quedan suspendidos del chasis del vano óptico facilitando la instalación y mantenimiento de los mismos.**
**CLAM ha nacido para integrarse en la arquitectura. Su concepto Trimless aunado a su mínima profundidad de instalación le permite ser instalado en muros tipo pladur de 15 mm.**

*Metallic body finished in white epoxy paint. Optic device made of steel with a high purity anodised aluminium reflector (99%).*
*Available in 2 diameters: 200 and 400mm. and 3 different lamp sources: CFL and halogen (for RBG LED version please advise).*
*The housing is fixed onto the supplied mounting kit (see page 171) allowing the rotation of the fitting and its output while integrating it on the wall. The gear hangs from the optic device housing to facilitate installation and maintenance.*
*CLAM means architecture's integration. Its Trimless concept together with its minimum depth allows it to be mounted in double plasterboard walls (15mm. depth).*

## APLICACIÓN / *APPLICATIONS*

**Clam 200mm.**
**Bañador de paredes y suelos. Alumbrado perimetral, en pasillos, escaleras y zonas de paso en general.**
**Clam 400mm.**
**Bañado de paredes y techos. Iluminación indirecta en general, tanto de zonas de paso como de grandes espacios diáfanos. Oficinas, tiendas, hoteles y sector terciario.**
**La solución perfecta para todos aquellos espacios donde se quiera disfrutar del confort lumínico de la iluminación indirecta.**

*Clam 200mm.*
*Wall/Floor washers specially suitable as guide lights (perimetral lighting) for corridors, staircases or walkable areas.*
*Clam 400mm.*
*Wall/Ceiling washers for indirect lighting in spacious walkable areas. Mainly suitable for offices, shops, hotels or commercial areas.*
*The perfect solution for indirect lighting applications without any glare effects.*

# /CLAM/

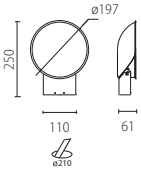
Blanco / *White*

CE F IP 20 RF 850ºc 0,2m .IES — QT-16 G9

Luminaria empotrable redonda para QT-16 o TC-DEL. Óptica asimétrica tipo bañador

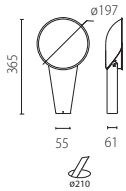
Round recessed mounting luminaire for QT-16 or TC-DEL. Asymmetric reflector for wall washer

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-1601-14-14** | ○ | QT-16 G9 | 230 | max. 40W | - | - | | * |




CE F IP 20 RF 850ºc 0,2m .IES — TC-DEL G24q-2

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-1602-14-14** | ○ | TC-DEL G24q-2 | 230 | 18W | - | Elect. inc | | * |

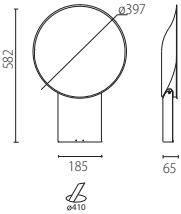



CE F IP 20 RF 850ºc 0,2m .IES — TC-F 2G10

Luminaria empotrable redonda para QT-16, TC-F o CDM-Tm. Óptica asimétrica tipo bañador

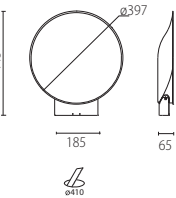
Round recessed mounting luminaire for QT-16, TC-F or CDM-Tm. Asymmetric reflector for wall washer

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-1608-14-14** | ○ | TC-F 2G10 | 230 | 24W | - | Elect. inc | | * |



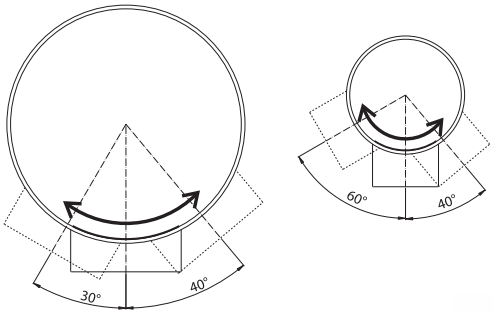

CE F IP 20 RF 850ºc 0,5m .IES — 0,2m Para EP-1605 / For EP-1605 — QT-16 G9 — CDM-Tm PGJ5

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-1605-14-14** | ○ | QT-16 G9 | 230 | max.60W | - | - | | * |
| **EP-1610-14-14** | ○ | CDM-Tm PGJ5 | 230 | 20W | - | Elect. inc | | * |




(*) Consultar

(*) Consult




## ROTACIÓN

**Ángulos de orientación del flujo luminoso para los dos tamaños de la luminaria Clam**

*ROTATION*

*Angles of orientation of the luminous flux for both sizes.*

## SISTEMA DE MONTAJE

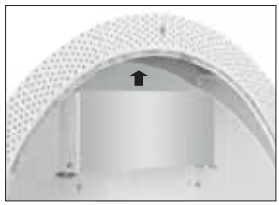
**El sistema de montaje es sencillo. Se trata de un tipo de sistema de montaje sin marco, tipo Trimless (ver instrucciones en pág.199). Una vez colocado el aro de instalación, el reflector (cuerpo) se coloca encajándolo en las pestañas posteriores. El vano óptico está dotado de un cable y platina para la sujeción del equipo de alimentación, por lo que deberemos introducir el equipo por el orificio realizado en la pared para instalar la luminaria y encajar después el vano óptico para dejar la instalación lista.**

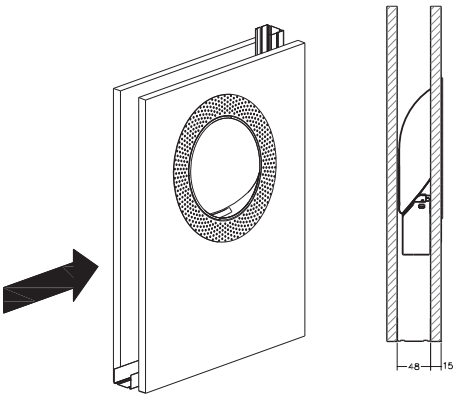
**Este sistema permite una fácil y rápida reposición tanto de las lámparas como de los equipos en caso de avería o finalización de su vida útil.**

*MOUNTING SYSTEM*

*The mounting system is fast and easy. It is a typical trimless mounting system (see mounting instructions on page 199).*
*Once the trim is fixed to the wall, the housing clips on it. As the gear hangs from the optic device housing by a cable and a metal plate to hold it, we will first pass the gear through the hole made to install the luminaire in the wall and then fix the optic device housing on it.*

*This system allows both an easy lamp or gear replacement in case of damage or any other circumstances.*





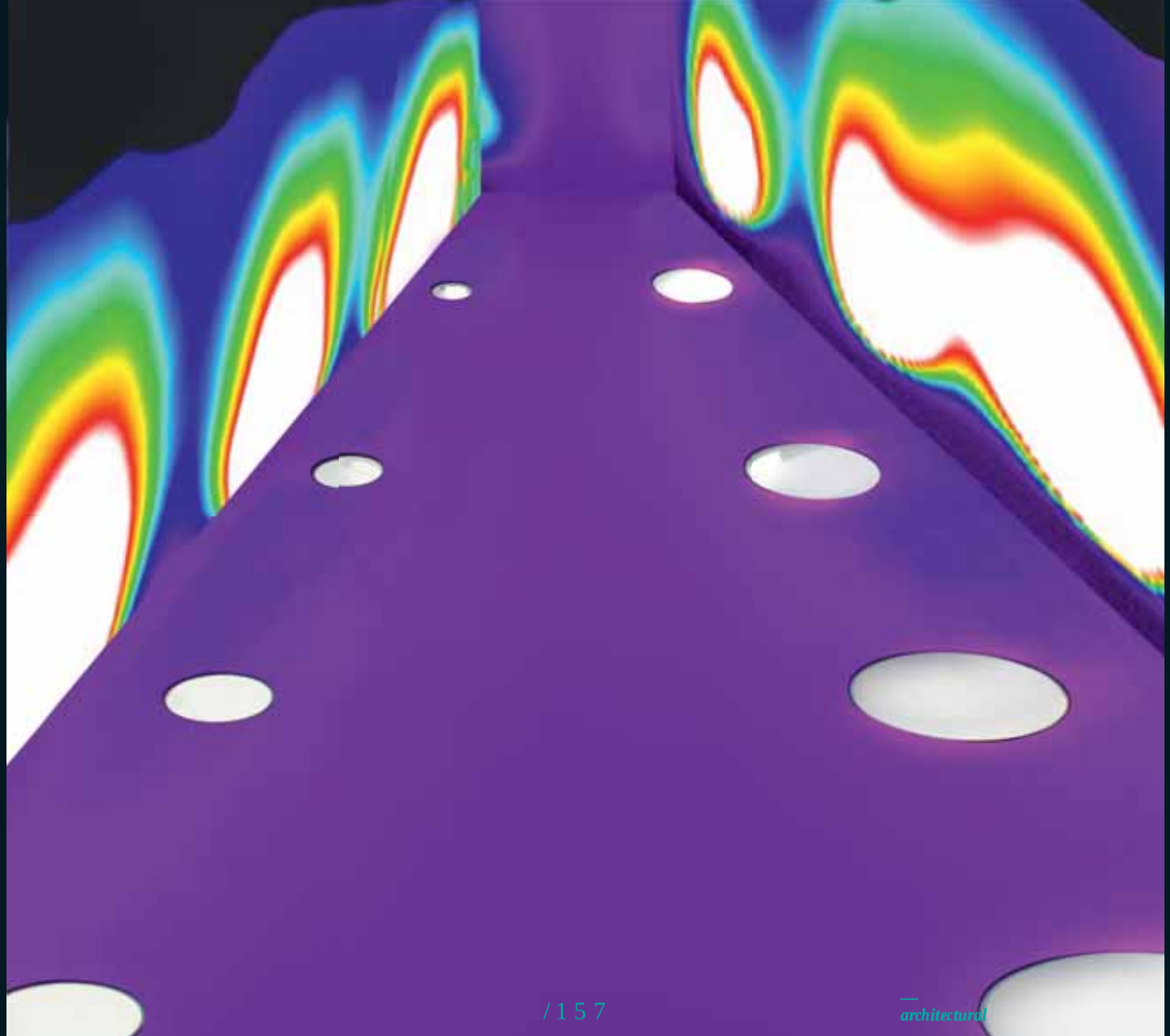

## PROFUNDIDAD DE INSTALACIÓN

**CLAM ha sido concebida para su instalación en cualquier superficie, especialmente en tabiques de Pladur (15 mm.) donde empotrar luminarias suele ser imposible debido su poca profundidad. Con CLAM esto es posible en todas sus versiones.**

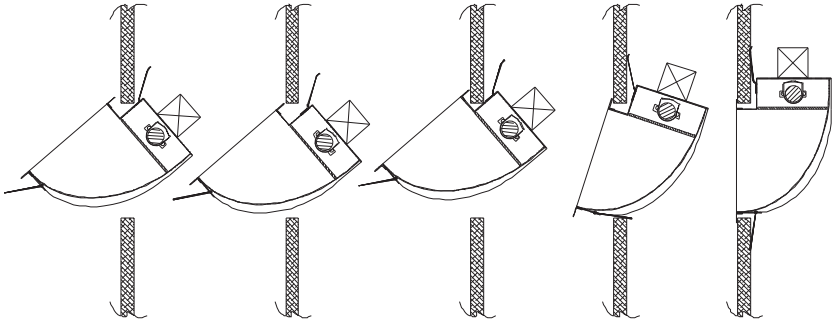
*INSTALLATION DEPTH*

*CLAM has been designed to be installed in any type of surface, specially on double plaster walls (15mm) where mounting luminaries is often impossible due to its minimum depth.*

# /CLAM/



# WALL



## DESCRIPCIÓN / *DESCRIPTION*

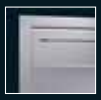
**Gama de empotrables de pared para iluminación de señalización o ambiental.**
**Cuerpo en chapa metálica con tratamiento anticorrosión.**
**Marco embellecedor en chapa metálica acabado con pintura epoxi de color gris/plata.**
**Reflector asimétrico, tipo bañador de suelo o pared, en aluminio anodizado mate.**
**Cristal templado transparente de protección de la lámpara.**
**Disponible en tres versiones y para lámparas fluorescentes compactas TC-TEL 18W o 26W, halógena QT-DE y fluorescencia lineal T5 de 24 W.**

*Wall recessed luminaires for environmental and signalling lighting.*
*Housing made of steel protected against corrosion.*
*Outer trim made of steel finished in grey-silver epoxy painting.*
*Asymmetric reflector in matt anodised aluminium for wall or floor washing.*
*Lamp protected with a tempered clear glass.*
*Available in three different versions and for compact fluorescent TC-TEL 18W or 26W, halogen QT-DE and fluorescent lamp T5 24W.*

## APLICACIÓN / *APPLICATIONS*

**Luminarias para ser utilizadas en cualquier proyecto de iluminación de señalización o ambiental en zonas comerciales, oficinas, hoteles, etc.**

*Luminaires to be used in any environmental or signalling project in commercial areas, offices, hotels, etc.*



Gris / *Grey*

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

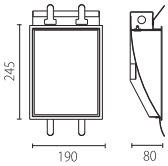


CE F IP 20 RF 850ºc 0,2m .IES (*) F 0,5m TC-TEL GX24q-3 QT-DE R7s

Caja de empotrar incluida.
Wall recessing box included.

Luminaria empotrable asimétrica para TC-TEL O QT-DE.
Recessed mounting asymmetric luminaire for TC-TEL or QT-DE lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| EP-0344-N3-XY | | TC-TEL GX24q-3 | 230 | 1x26W | - | Elect. inc | | 125 |
| * EP-0345-N3-00 | | QT-DE R7s | 230 | max.150W | - | - | | 68 |




215 x 345x 100 mm con caja / *with box*

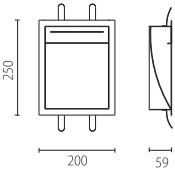
180 x 240 mm sin caja / *without box*

CE F IP 20 RF 850ºc 0,2m .IES TC-DEL G24q-2

Caja de empotrar incluida.
Wall recessing box included.

Luminaria empotrable asimétrica para TC-DEL.
Recessed mounting asymmetric luminaire for TC-DEL lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| EP-0346-N3-XY | | TC-DEL G24q-2 | 230 | 1x18W | - | Elect. inc | | * |



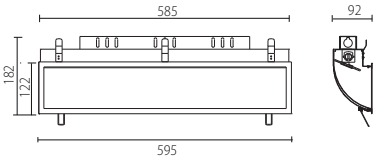

215 x 345 x 100 mm con caja / *with box*

190 x 240 mm sin caja / *without box*

CE F IP 20 RF 850ºc 0,2m .IES TL5 G5

Luminaria empotrable asimétrica para T5 de 24W.
Recessed mounting asymmetric luminaire for T5 fluorescent lamp 24W.

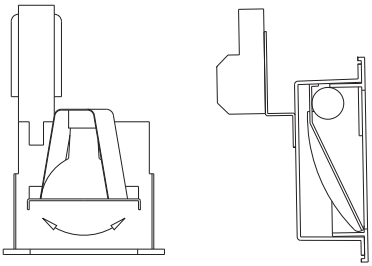
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| EP-0347-N3-00 | | TL5 G5 | 230 | 24W | - | Elect. inc | | 126 |




589 x 109 mm

(*) Consultar / (*) Consult

# /SIGN/



## DESCRIPCIÓN / *DESCRIPTION*

**Gama de pequeños empotrables para iluminación de señalización o ambiental.**
**Tres versiones disponibles:**
**- Versión para lámpara QR-CB51.**
**- Versión asimétrica para lámpara halógena 230V o LED ideal para la iluminación decorativa de escaleras**
**- Versión con PowerLed de 1W y que permite la incorporación de filtros de color y de pictogramas.**
**Todas estas luminarias se caracterizan por la excelente calidad de los materiales utilizados en su fabricación y por la enorme facilidad de instalación.**

*Small recessed range for sign lighting and the creation of special environments with light.*
*Three versions available:*
*- for QR-CB51 lamp.*
*-asymmetric for small halogen 230 V or LED, ideal for stairs decorative lighting.*
*- with 1W PowerLed which allows to incorporate coloured filters and pictograms.*
*All luminaires are characterised by the excellent quality of all materials used in their manufacturing and by the ease of installation.*

## APLICACIÓN / *APPLICATIONS*

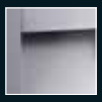
**Luminarias para ser utilizadas en cualquier proyecto de iluminación de señalización o ambiental en zonas comerciales, oficinas, hoteles, etc.**

*Luminaires to be used in any environmental or signalling project in commercial areas, offices, hotels, etc.*

## ACCESORIOS / *ACCESSORIES*

**La versión para QR-CB51 se suministra con marco embellecedor.**
**La versión para PowerLed puede incorporar filtros de color y pictogramas.**
**Las versiones asimétrica y con PowerLed se suministran con una caja de empotramiento para facilitar la instalación de estos productos.**

*QR-CB51 version is supplied with decorative trim.*
*The PowerLed version can incorporate colour filters and/or pictograms.*
*For the asymmetric and the PowerLed version a recessing box is supplied to facilitate the installation of these products.*



Gris / *Grey*

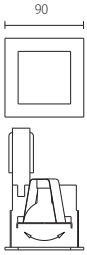
**Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.**

*See Photometric data on page 174 and equivalent lamps table on page 183.*

CE F III IP 20 RF 850ºc 0,5m (*) F para QR-CB51<35W QR-CB51 GU5.3

Luminaria empotrable cuadrada para QR-CB51.
Square recessed mounting luminaire for QR-CB51 lamp.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-0348-N3-XY** | ● | QR-CB51 GU5.3 | 12 | max.50W | - | Not inc | | 127 |



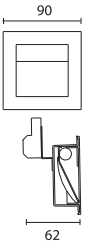

77 x 77 mm

CE F IP 20 RF 850ºc 0,5m Halopin G9 Power Led (*) III

Luminaria empotrable asimétrica.
Square recessed asymmetric luminaire.

Caja de empotrar incluida.
Wall recessing box included.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | T T | ⊥ ⊥ | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|---|
| **EP-0349-N3-XY** | ● | Halopin G9 | 230 | 25W | - | | - | | 52 |
| **EP-0356-N3-00** * | ● | Power Led (3000-3500K) | - | 1W<br>3W | 350mA<br>700mA | | Not inc | | * |




EP-0356. Requiere driver de 350mA/700mA
350mA/700mA driver required

80 x 116 x 62 mm con caja / *with box*

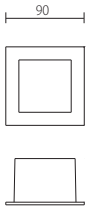
77 x 77 mm sin caja / *without box*

CE F III IP 43 RF 850ºc 0,1m Power Led

Luminaria empotrable para PowerLed. 350 mA/700 mA
Square recessed luminaire for PowerLed. 350 mA/700 mA

Caja de empotrar incluida.
Wall recessing box included.

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W 350 mA | W W 700 mA | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **EP-0360-N3-XY** | ● | Power Led (5500-6000K) | - | 1W | 3W | Not inc | | 53 |




80 x 116 x 62 mm con caja / *with box*

77 x 77 mm sin caja / *without box*

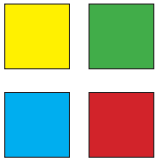
(*) Consultar
(*) Consult

Ver drivers de **350 mA/700mA** en página 166 para EP-0360 / EP-0356
See **350 mA/700mA** drivers in page 166 for EP-0360 / EP-0356

## ACCESORIOS/ ACCESSORIES

Filtros de colores.
Colour filters.

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| **ACT-0364-00-00** | - |

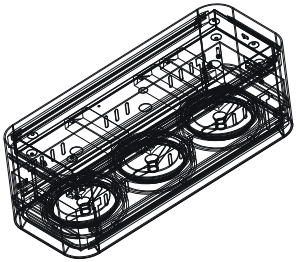


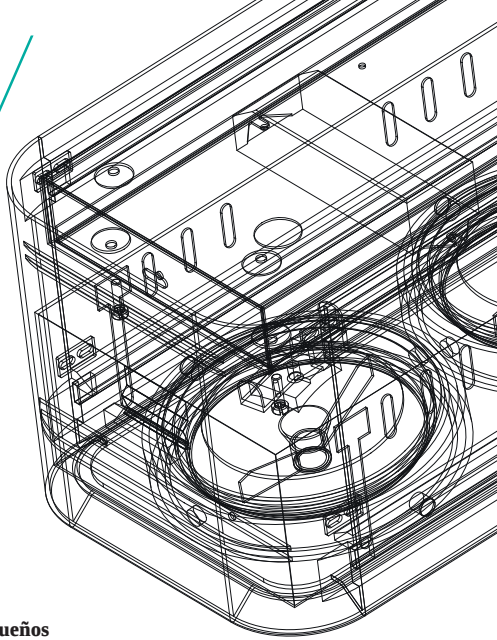
Pictogramas.
Pictograms.

| CÓDIGO CODE | COLOR COLOUR |
|---|---|
| **ACT-0365-00-00** | - |

# /BACO/

Design by:
RAMON BENEDITO





## DESCRIPCIÓN / *DESCRIPTION*

**BACO es el nuevo sistema de iluminación multidireccional para alumbrado general de pequeños espacios y ambiental o de acentuación en áreas diáfanas. La variedad de lámparas que admite, la posibilidad de combinación de las mismas y su sistema de montaje en superficies de paredes y techos lo hacen ideal para todo aquel lugar donde no exista la opción de empotrar elementos.**
**Con su kit de suspensión, BACO se convierte en una elegante luminaria técnica- decorativa. Combine lámparas de descarga con lámparas halógenas, seleccione la ubicación y disposición que más le agrade. Haga los enfoques con el sistema de rotación multidireccional del vano óptico… Bienvenido a la versatilidad.**

*BACO is our new range of multidirectional fittings for general lighting of small spaces or ambient and/or accent lighting for diaphanous areas.*
*The possibility to combine halogen and discharge lamps and the different mounting options on walls or ceilings make this range suitable for spaces where recessed mounting is not permitted.*
*The Suspension kit turns BACO into an elegant technical but at the same time decorative fitting.*
*Just select the right location, the correct adjustment and the number of optics needed and combine halogen and discharge lamps… Welcome to versatility.*

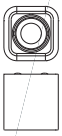
Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Blanco / *White*

Negro / *Black*

Gris / *Grey*

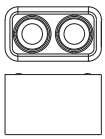



Luminaria de superfice para iluminación general, ambiente o acentuación.
Surface mounted luminaire for general, ambient and/or accent lighting.

CE | F | IP 23 | RF 850ºc | 0,5m | ±40º | .IES

QR-CBC51 GU5.3

| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-1150-14-00** | ○ | QR-CBC51 GU5.3 | 230 | max. 50W | _ | Elect. inc | | 01-08 |
| **DM-1150-60-00** | ● | QR-CBC51 GU5.3 | 230 | max. 50W | _ | | | 01-08 |
| **DM-1150-N3-00** | ● | QR-CBC51 GU5.3 | 230 | max. 50W | - | | | 01-08 |




| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| **DM-1151-14-00** | ○ | QR-CBC51 GU5.3 | 230 | max. 2x50W | _ | Elect. inc | | 01-08 |
| **DM-1151-60-00** | ● | QR-CBC51 GU5.3 | 230 | max. 2x50W | _ | | | 01-08 |
| **DM-1151-N3-00** | ● | QR-CBC51 GU5.3 | 230 | max. 2x50W | - | | | 01-08 |

# /BACO/

Ver fotometrías en página 174 y tabla de equivalencias de lámparas en página 183.

*See Photometric data on page 174 and equivalent lamps table on page 183.*

Blanco / *White*

Negro / *Black*

Gris / *Grey*

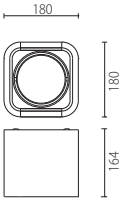
Luminaria de superfice para iluminación general, ambiente o acentuación.

Surface mounted luminaire for general, ambient and/or accent lighting.

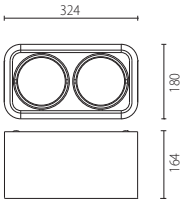
IP 23 | RF 850ºc | 0,5m | ±40º | .IES

QR-111 G53

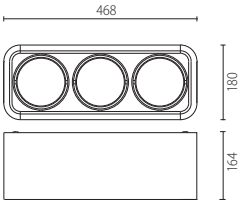
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-1100-14-00 | ○ | QR-111 G53 | 230 | max.75W | _ | Elect. inc | | 01-08 |
| DM-1100-60-00 | ● | QR-111 G53 | 230 | max.75W | _ | | | 01-08 |
| DM-1100-N3-00 | ● | QR-111 G53 | 230 | max.75W | _ | | | 01-08 |



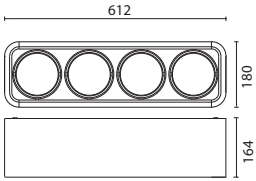
| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-1101-14-00 | ○ | QR-111 G53 | 230 | max.2x75W | _ | Elect. inc | | 01-08 |
| DM-1101-60-00 | ● | QR-111 G53 | 230 | max.2x75W | _ | | | 01-08 |
| DM-1101-N3-00 | ● | QR-111 G53 | 230 | max.2x75W | _ | | | 01-08 |



| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-1102-14-00 | ○ | QR-111 G53 | 230 | max.3x75W | _ | Elect. inc | | 01-08 |
| DM-1102-60-00 | ● | QR-111 G53 | 230 | max.3x75W | _ | | | 01-08 |
| DM-1102-N3-00 | ● | QR-111 G53 | 230 | max.3x75W | _ | | | 01-08 |

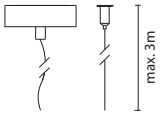


| CÓDIGO CODE | COLOR COLOUR | LÁMPARA LAMP | VOLT. VOLT | W W | HAZ BEAM | EQUIPO GEAR | INSTALACIÓN INSTALLATION | |
|---|---|---|---|---|---|---|---|---|
| DM-1103-14-00 | ○ | QR-111 G53 | 230 | max.4x75W | _ | Elect. inc | | 01-08 |
| DM-1103-60-00 | ● | QR-111 G53 | 230 | max.4x75W | _ | | | 01-08 |
| DM-1103-N3-00 | ● | QR-111 G53 | 230 | max.4x75W | _ | | | 01-08 |




Versiones de descarga consultar.

Discharge lamps versions on demand.




| CÓDIGO<br>CODE | COLOR<br>COLOUR | DESCRIPCIÓN<br>DESCRIPTION | PARA CÓDIGO<br>FOR CODE |
|---|---|---|---|
| **ACT-9044-14-00** | ○ | Kit suspensión + 1 sirga/ *Suspension Kit + 1 steel cable* | DM-1100 |
| **ACT-9044-60-00** | ● | Kit suspensión + 1 sirga/ *Suspension Kit + 1 steel cable* | DM-1100 |
| **ACT-9044-N3-00** | ● | Kit suspensión + 1 sirga/ *Suspension Kit + 1 steel cable* | DM-1100 |
| **ACT-9045-14-00** | ○ | Kit suspensión + 2 sirgas/ *Suspension Kit + 2 steel cables* | DM-1101, DM-1102, DM-1103 |
| **ACT-9045-60-00** | ● | Kit suspensión + 2 sirgas/ *Suspension Kit + 2 steel cables* | DM-1101, DM-1102, DM-1103 |
| **ACT-9045-N3-00** | ● | Kit suspensión + 2 sirgas/ *Suspension Kit + 2 steel cables* | DM-1101, DM-1102, DM-1103 |

Para versión suspendida solicitar luminaria + kit suspensión.
For suspended version, order luminaire + suspension kit.

# /UNIDADES ELÉCTRICAS
# *ELECTRICAL UNITS/*

**Transformadores de seguridad electrónicos para lámparas halógenas 12V.**
Antiparasitario. Uso independiente. Clase II. IP 20.
**Electronic transformers. Security electronic transformers for 12V halogen lamps.**
Antiparasitic. Class II. IP20.

| CÓDIGO<br>CODE | W<br>W | DIMENSIONES<br>DIMENSIONS |
|---|---|---|
| **ACT-TRA-001** | 20-60W | 37x28x128 |
| **ACT-TRA-002** | 20-70W | 37x28x128 |
| **ACT-TRA-003** | 20-105W | 37x28x128 |
| **ACT-TRA-004** | 50-150W | 37x28x184 |

**Equipo electrónico para PowerLeds. 100~240V, 700 mA**
Antiparasitario. Uso independiente. Clase II. IP20.
**Drivers (Electronic gear for PowerLEDs). 100~240V; 700 mA.**
Antiparasitic. Class II. IP20.

| CÓDIGO<br>CODE | W<br>W |
|---|---|
| **71-3305-00-00** | 3W |
| **71-3306-00-00** | 4W |
| **71-3307-00-00** | 12W |
| **71-3308-00-00** | 18W |

**Equipo electrónico para PowerLeds. 100~240V, 500 mA**
Antiparasitario. Uso independiente. Clase II. IP20.
**Drivers (Electronic gear for PowerLEDs). 100~240V; 500 mA.**
Antiparasitic. Class II. IP20.

| CÓDIGO<br>CODE | W<br>W |
|---|---|
| **71-3309-00-00** | 16W |

**Equipo electrónico para PowerLeds. 100~240V, 350 mA**
Antiparasitario. Uso independiente. Clase II. IP20.
**Drivers (Electronic gear for PowerLEDs). 100~240V; 350 mA.**
Antiparasitic.
Class II. IP20.

| CÓDIGO<br>CODE | W<br>W | DIMENSIONES<br>DIMENSIONS |
|---|---|---|
| **ACT-0803-00-00** | 3W | 60x35x21 |
| **ACT-0804-00-00** | 4W | 77,5x34x21,5 |
| **ACT-0808-00-00** | 8W | 122x38x28 |
| **ACT-0816-00-00** | 10W - 18W | 123,5x79x21 |

Para todas las luminarias suministradas sin equipo de funcionamiento (debidamente identificadas en el catálogo), éste deberá ser pedido separadamente.

*For all luminaries supplied without gear (all of them correctly identified in the catalogue), this one shall be ordered separately.*

**Reactancia electrónica para lámparas de halogenuros metálicos. 220~240V, 50-60Hz**
Uso independiente. Clase II. IP20.
Alargamiento de la vida de las lámparas y ahorro de energía.
**Electronic gear for HIT lamps. 220~240V; 50-60Hz.**
Class II. IP20.
Longer lamp life and energy savings.

| CÓDIGO<br>CODE | W<br>W | DIMENSIONES<br>DIMENSIONS |
|---|---|---|
| **ACT-BAL-003** | 35W | 67x31x140 |
| **ACT-BAL-004** | 2x35W | 89x37x224 |
| **ACT-BAL-005** | 70W | 83x32x170 |
| **ACT-BAL-006** | 2x70W | 89x37x224 |
| **ACT-BAL-007** | 150W | 89x37x186 |

**Equipo magnético de alimentación para lámparas de halogenuros metálicos. ~230V, 50Hz**
Uso independiente. Clase II. IP40.
Interruptor térmico incorporado.
**Magnetic gear for HIT lamps. 230V; 50Hz.**
Class II. IP40.
Thermal switch integrated.

| CÓDIGO<br>CODE | W<br>W | DIMENSIONES<br>DIMENSIONS |
|---|---|---|
| **ACT-BAL-009** | 35W | 73x61x222 |
| **ACT-BAL-010** | 70W | 73x61x222 |
| **ACT-BAL-011** | 150W | 73x61x250 |

## Halógenas B.T con reflector / *Low voltage halogen with reflector*

**MASTER line 111 - Philips**

40% ahorro de energía: intensidad de haz de 60W = 100W estándar.

*40% energy savings: 60W lamp has same beam intensity as the standard 100W.*

40% menos calor generado. El doble de vida útil comparada con las QR-111 estándar.

*40% less heat generated: important savings in air conditioning. Double life time compared with standard QR-111 lamps.*

QR-111

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (°) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLH-001** | G53 | 12 | 30 | | 8 | 23000 | | 4000 |
| **ACT-FLH-002** | G53 | 12 | 30 | | 24 | 4000 | | 4000 |
| **ACT-FLH-003** | G53 | 12 | 45 | | 8 | 33000 | | 4000 |
| **ACT-FLH-004** | G53 | 12 | 45 | | 24 | 5300 | | 4000 |
| **ACT-FLH-005** | G53 | 12 | 45 | | 45 | 1900 | | 4000 |
| **ACT-FLH-006** | G53 | 12 | 60 | | 8 | 48000 | | 4000 |
| **ACT-FLH-007** | G53 | 12 | 60 | | 24 | 8500 | | 4000 |
| **ACT-FLH-008** | G53 | 12 | 60 | | 45 | 2800 | | 4000 |

**Halospot 70 - Osram**

Reflector facetado para una distribución luminosa uniforme

*Faceted reflector for an uniform luminous distribution.*

QR-70

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (°) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLH-021** | BA15d | 12 | 20 | | 8 | 7700 | | 3000 |
| **ACT-FLH-022** | BA15d | 12 | 20 | | 24 | 900 | | 3000 |
| **ACT-FLH-023** | BA15d | 12 | 50 | | 8 | 12500 | | 3000 |
| **ACT-FLH-024** | BA15d | 12 | 50 | | 24 | 2600 | | 3000 |

**Decostar 51 IRC - Osram**

30% ahorro de energía: intensidad de haz de 35W = 50W estándar

*30% energy savings: 35W lamp has same beam intensity as the standard 50W.*

El doble de vida útil comparada con las QR-CBC51 estándar.

*30% less heat generated: important savings in air conditioning. Double life time compared with standard QR-CBC51 lamps.*

QR-CBC51

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (°) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLH-009** | GU5.3 | 12 | 35 | | 10 | 12500 | | 4000 |
| **ACT-FLH-010** | GU5.3 | 12 | 35 | | 24 | 4400 | | 4000 |
| **ACT-FLH-011** | GU5.3 | 12 | 35 | | 36 | 2200 | | 4000 |
| **ACT-FLH-012** | GU5.3 | 12 | 35 | | 60 | 1100 | | 4000 |
| **ACT-FLH-013** | GU5.3 | 12 | 50 | | 10 | 15000 | | 4000 |
| **ACT-FLH-014** | GU5.3 | 12 | 50 | | 24 | 5700 | | 4000 |
| **ACT-FLH-015** | GU5.3 | 12 | 50 | | 36 | 2850 | | 4000 |
| **ACT-FLH-016** | GU5.3 | 12 | 50 | | 60 | 1430 | | 4000 |

## Halógenas B.T. sin reflector / *Low voltage halogen without reflector*

**CAPSULEline Pro - Philips**

QT-12

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (°) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLH-017** | GY6.35 | 12 | 35 | | | | 600 | 3000 |
| **ACT-FLH-018** | GY6.35 | 12 | 50 | | | | 880 | 3000 |
| **ACT-FLH-019** | GY6.35 | 12 | 75 | | | | 1575 | 3000 |
| **ACT-FLH-020** | GY6.35 | 12 | 100 | | | | 2200 | 3000 |

**MasterLine-TC - Philips**

Excelentes eficacia y vida útil.

*Excellent efficacy and lamp life.*

QT-TC

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (°) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLH-025** | G8.5 | 12 | 45 | | | | 1100 | 5000 |
| **ACT-FLH-026** | G8.5 | 12 | 60 | | | | 1600 | 5000 |

## Fluorescentes compactas para balastro magnético / *Compact fluorescent for magnetic gear*

**Dulux D - Osram**

TC-D

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-001** | G24d-1 | 230 | 13 | 830 | | | 900 | 8000 |
| **ACT-FLF-002** | G24d-1 | 230 | 13 | 840 | | | 900 | 8000 |
| **ACT-FLF-003** | G24d-2 | 230 | 18 | 830 | | | 1200 | 8000 |
| **ACT-FLF-004** | G24d-2 | 230 | 18 | 840 | | | 1200 | 8000 |
| **ACT-FLF-005** | G24d-3 | 230 | 26 | 830 | | | 1800 | 8000 |
| **ACT-FLF-006** | G24d-3 | 230 | 26 | 840 | | | 1800 | 8000 |

## Fluorescentes compactas para balastro electrónico / *Compact fluorescent for electronic gear*

**Dulux D/E - Osram**

TC-DEL

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-007** | G24q-1 | 230 | 13 | 830 | | | 900 | 10000 |
| **ACT-FLF-008** | G24q-1 | 230 | 13 | 840 | | | 900 | 10000 |
| **ACT-FLF-009** | G24q-2 | 230 | 18 | 830 | | | 1200 | 10000 |
| **ACT-FLF-010** | G24q-2 | 230 | 18 | 840 | | | 1200 | 10000 |
| **ACT-FLF-011** | G24q-3 | 230 | 26 | 830 | | | 1800 | 10000 |
| **ACT-FLF-012** | G24q-3 | 230 | 26 | 840 | | | 1800 | 10000 |

## Fluorescentes compactas para balastro electrónico / *Compact fluorescent for electronic gear*

**Dulux T/E - Osram**

TC-TEL

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-013** | GX24q-3 | 230 | 26 | 830 | | | 1800 | 10000 |
| **ACT-FLF-014** | GX24q-3 | 230 | 26 | 840 | | | 1800 | 10000 |
| **ACT-FLF-015** | GX24q-3 | 230 | 32 | 830 | | | 2400 | 10000 |
| **ACT-FLF-016** | GX24q-3 | 230 | 32 | 840 | | | 2400 | 10000 |
| **ACT-FLF-017** | GX24q-4 | 230 | 42 | 830 | | | 3200 | 10000 |
| **ACT-FLF-018** | GX24q-4 | 230 | 42 | 840 | | | 3200 | 10000 |

**PL-H - Philips**

PL-H

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-030** | 2G8 | 230 | 60 | 830 | | | 4000 | 20000 |
| **ACT-FLF-031** | 2G8 | 230 | 60 | 840 | | | 4000 | 20000 |
| **ACT-FLF-032** | 2G8 | 230 | 85 | 830 | | | 6000 | 20000 |
| **ACT-FLF-033** | 2G8 | 230 | 85 | 840 | | | 6000 | 20000 |
| **ACT-FLF-034** | 2G8 | 230 | 120 | 830 | | | 9000 | 20000 |
| **ACT-FLF-035** | 2G8 | 230 | 120 | 840 | | | 9000 | 20000 |

## Fluorescentes compactas para balastro electrónico / *Compact fluorescent for electronic gear*

**Dulux F - Osram**

TC-F

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-037** | 2G10 | 230 | 24 | 830 | | | 1700 | |
| **ACT-FLF-038** | 2G10 | 230 | 24 | 840 | | | 1700 | |

## Fluorescentes compactas no integrada para balastro electrónico / *Compact non integrated fluorescent for electronic gear*

**T5 HO HIGH OUTPUT**

T5



| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (º) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLF-024** | G5 | 230 | 39 | 4000 | | | 3100 | 16000 |
| **ACT-FLF-025** | G5 | 230 | 54 | 4000 | | | 4450 | 16000 |
| **ACT-FLF-026** | G5 | 230 | 80 | 4000 | | | 6150 | 16000 |
| **ACT-FLF-027** | G5 | 230 | 39 | 3000 | | | 3100 | 16000 |
| **ACT-FLF-028** | G5 | 230 | 54 | 3000 | | | 4450 | 16000 |
| **ACT-FLF-029** | G5 | 230 | 80 | 3000 | | | 6150 | 16000 |
| **ACT-FLF-039** | G5 | 230 | 24 | 3000 | | | 1750 | 16000 |

## Halogenuros metálicos con reflector de aluminio / *Metal halide with aluminium reflector integrated*

### CDM-R111

**Mastercolour CDM-R111 - Philips**, Estabilidad de color. Mejor reproducción cromática. Usar sólo con reactancias electrónicas
*Colour stability. Better chromatic rendering. Use only with electronic gear.*

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) |
|---|---|---|---|---|---|---|---|---|
| **ACT-FLD-008** | GX8.5 | 230 | 35 | 830 | 10º | 35000 | | 20000 |
| **ACT-FLD-009** | GX8.5 | 230 | 35 | 830 | 24º | 8500 | | 20000 |
| **ACT-FLD-010** | GX8.5 | 230 | 35 | 830 | 40º | 4000 | | 20000 |
| **ACT-FLD-011** | GX8.5 | 230 | 70 | 830 | 10º | 50000 | | 20000 |
| **ACT-FLD-012** | GX8.5 | 230 | 70 | 830 | 24º | 15000 | | 20000 |
| **ACT-FLD-013** | GX8.5 | 230 | 70 | 830 | 40º | 6500 | | 20000 |

## Halogenuros metálicos de doble terminal / *Double terminal metal halide*

### HIT-DE

**MHW-TD Pro - Philips**
Excelentes eficacia y vida útil
*Good efficacy and lamp life*

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) | RAEE |
|---|---|---|---|---|---|---|---|---|---|
| **ACT-FLD-001** | Rx7s | 230 | 70 | 942 | | | 5700 | 9000 | 0,30 |
| **ACT-FLD-002** | Rx7s | 230 | 150 | 942 | | | 12900 | 9000 | 0,30 |

## Halogenuros metálicos de un terminal / *Single terminal metal halide*

### HIT-T

**MasterColour CDM-T - Philips**
Estabilidad de color. Mejor reproducción cromática
*Colour stability. Better chromatic rendering.*

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) | RAEE |
|---|---|---|---|---|---|---|---|---|---|
| **ACT-FLD-003** | G12 | 230 | 35 | 830 | | | 3300 | 12000 | 0,30 |
| **ACT-FLD-004** | G12 | 230 | 70 | 830 | | | 6600 | 12000 | 0,30 |
| **ACT-FLD-005** | G12 | 230 | 150 | 830 | | | 14000 | 12000 | 0,30 |

### HIT-TC

**MasterColour CDM-TC - Philips**
Estabilidad de color. Mejor reproducción cromática
*Colour stability. Better chromatic rendering.*
Se aconseja el uso de la lámpara de 70W sólo con reactancia electrónica
*Advisable to use the 70W lamp with electronic gear.*

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) | RAEE |
|---|---|---|---|---|---|---|---|---|---|
| **ACT-FLD-006** | G8,5 | 230 | 35 | 830 | | | 3300 | 9000 | 0,30 |
| **ACT-FLD-007** | G8,5 | 230 | 70 | 830 | | | 6400 | 6000 | 0,30 |

### CDM-Tm

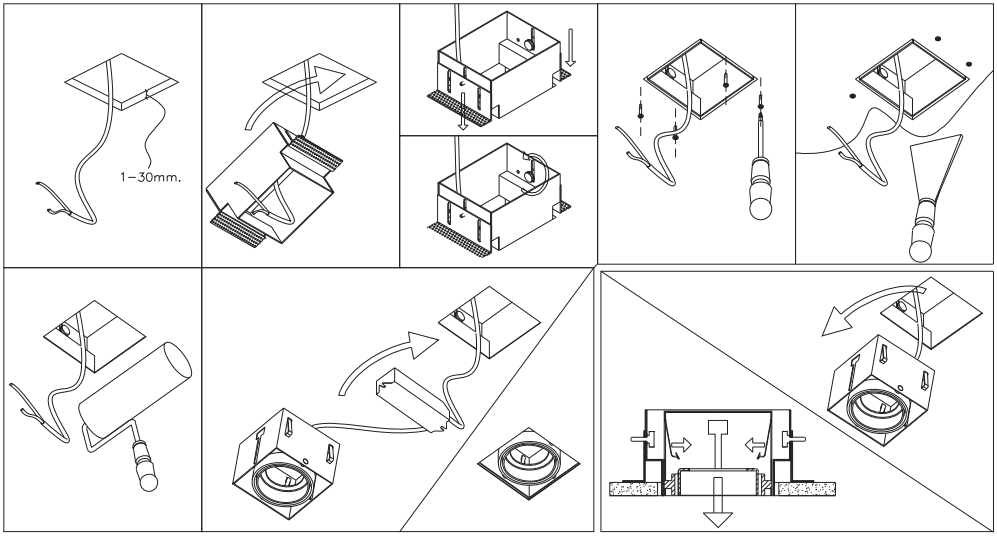
**MasterColour CDM-Tm - Philips**
Estabilidad de color. Mejor reproducción cromática
*Colour stability. Better chromatic rendering.*
Sólo funciona con el equipo electrónico de Philips suministrado con nuestras luminarias
*Works only with electronic gear Philips (delivered with our luminaires).*

| CÓDIGO CODE | CASQUILLO BASE | V | W | COLOR COLOUR | HAZ (º) BEAM (°) | I (CD) | Φ (LM) | VIDA (H) LIFE (H) | RAEE |
|---|---|---|---|---|---|---|---|---|---|
| **ACT-FLD-015** | PGJ5 | 230 | 20 | 830 | | | 1615 | 9000 | 0,30 |

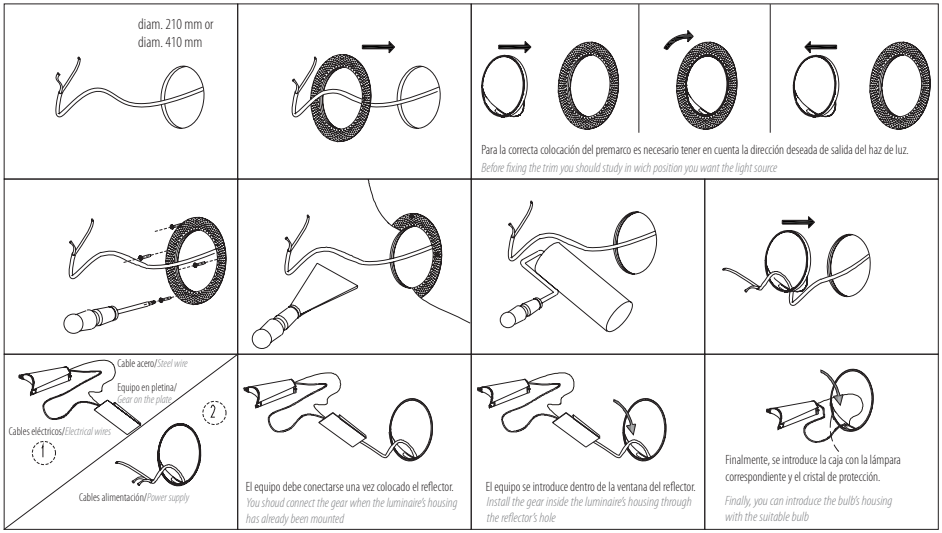
# /INSTRUCCIONES DE MONTAJE
# *MOUNTING INSTRUCTIONS/*

## Instalación de las versiones sin marco (Trimless) / *Installation instructions for the trimless version*

### MULTIDIR

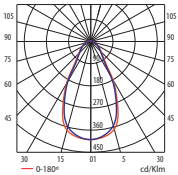



### CLAM



## nº 01
90-3475-14-14

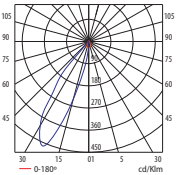
**Blanco cálido / Warm white -12w -40º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 1.10 | 210 |
| 2 | 2.19 | 52 |
| 3 | 3.29 | 23 |
| 4 | 4.38 | 13 |
| 5 | 5.48 | 8 |

## nº 02
90-3477-14-14

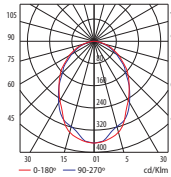
**Blanco cálido / Warm white -12w -40º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 1.18 | 298 |
| 2 | 2.36 | 74 |
| 3 | 3.54 | 33 |
| 4 | 4.72 | 19 |
| 5 | 5.90 | 2 |

## nº 03
90-3429-14_N3-M2

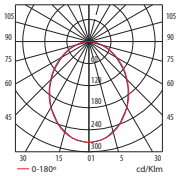
**Blanco cálido pmma / Warm white pmma**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 1.85 | 307 |
| 2 | 3.69 | 77 |
| 3 | 5.54 | 34 |
| 4 | 7.38 | 19 |
| 5 | 9.23 | 12 |

## nº 04
90-3429-14_N3-M3

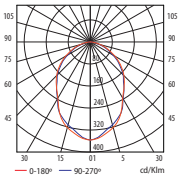
**Blanco cálido cristal / Warm white glass**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 2.18 | 230 |
| 2 | 4.37 | 58 |
| 3 | 6.55 | 26 |
| 4 | 8.74 | 14 |
| 5 | 10.92 | 9 |

## nº 05
90-3430-14_N3-M2

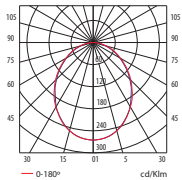
**Blanco frío pmma / Cold white pmma**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 1.91 | 391 |
| 2 | 3.81 | 98 |
| 3 | 5.72 | 43 |
| 4 | 7.62 | 24 |
| 5 | 9.53 | 16 |

## nº 06
90-3430-14_N3-M3

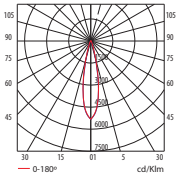
**Banco frío cristal / Cold white glass**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 2.23 | 291 |
| 2 | 4.45 | 73 |
| 3 | 6.68 | 32 |
| 4 | 8.90 | 18 |
| 5 | 11.13 | 12 |

## nº 07
90-3426-S2-N3

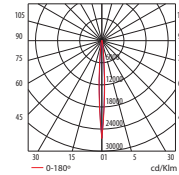
**Blanco cálido / Warm white - 9w -40º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.39 | 1113 |
| 2 | 0.77 | 278 |
| 3 | 1.16 | 124 |
| 4 | 1.55 | 70 |
| 5 | 1.94 | 45 |

## nº 08
90-3424-S2-N3

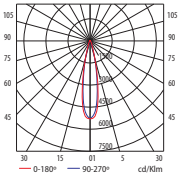
**Blanco frío / Cold white - 9w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 7242 |
| 2 | 0.23 | 1810 |
| 3 | 0.34 | 805 |
| 4 | 0.46 | 453 |
| 5 | 0.57 | 290 |

## nº 09
90-3427-S2-N3

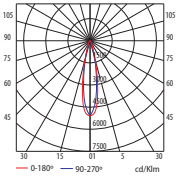
**Blanco cálido / Warm white - 12w -40º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.39 | 1803 |
| 2 | 0.78 | 451 |
| 3 | 1.16 | 200 |
| 4 | 1.54 | 113 |
| 5 | 1.93 | 72 |

## nº 10
90-3428-S2-N3

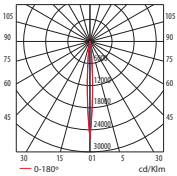
**Blanco cálido / Warm white - 18w -40º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.39 | 2244 |
| 2 | 0.78 | 561 |
| 3 | 1.17 | 249 |
| 4 | 1.56 | 140 |
| 5 | 1.95 | 90 |

## nº 11
05-3391-N3-00

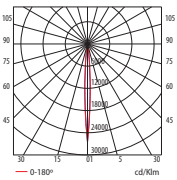
**Blanco neutro / Neutral white - 4w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 1543 |
| 2 | 0.23 | 386 |
| 3 | 0.34 | 171 |
| 4 | 0.46 | 96 |
| 5 | 0.57 | 62 |

## nº 12
05-3377-S2-00

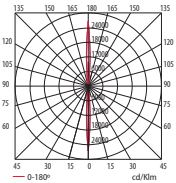
**Blanco frío / Cold white - 3w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 2461 |
| 2 | 0.23 | 615 |
| 3 | 0.34 | 273 |
| 4 | 0.46 | 154 |
| 5 | 0.57 | 98 |

## nº 13
05-3381-S2-00

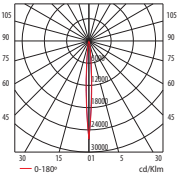
**Blanco frío / Cold white - 6w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 2461 |
| 2 | 0.23 | 615 |
| 3 | 0.34 | 273 |
| 4 | 0.46 | 154 |
| 5 | 0.57 | 98 |

## nº 14
AP-0501-S2-00

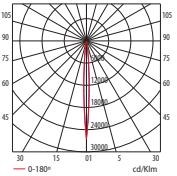
**Blanco frío / Cold white -1w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 1543 |
| 2 | 0.23 | 386 |
| 3 | 0.34 | 171 |
| 4 | 0.46 | 96 |
| 5 | 0.57 | 62 |

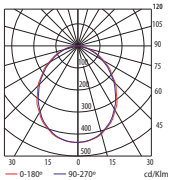
## nº 15
AP-0503-S2-00

**Blanco frío / Cold white -3w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 1543 |
| 2 | 0.23 | 386 |
| 3 | 0.34 | 171 |
| 4 | 0.46 | 96 |
| 5 | 0.57 | 62 |

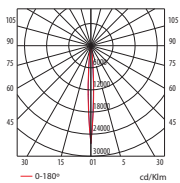
## nº 16
EP-0506-00-B9




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 2.26 | 9 |
| 2 | 4.53 | 2 |
| 3 | 6.79 | 1 |
| 4 | 9.06 | 1 |
| 5 | 11.32 | 0 |

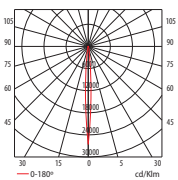
## nº 17
SP-0100-S2-00

**Blanco frío / Cold white - 3w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 2461 |
| 2 | 0.23 | 615 |
| 3 | 0.34 | 270 |
| 4 | 0.46 | 154 |
| 5 | 0.57 | 98 |

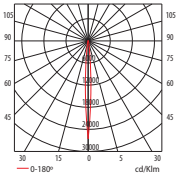
## nº 18
05-3489-54-S2




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 2119 |
| 2 | 0.23 | 530 |
| 3 | 0.34 | 235 |
| 4 | 0.46 | 132 |
| 5 | 0.57 | 85 |

## nº 19
05-3308-S2-00

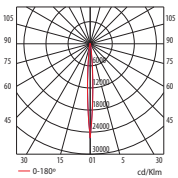
**Blanco cálido / Warm white - 3w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 2119 |
| 2 | 0.23 | 530 |
| 3 | 0.34 | 235 |
| 4 | 0.46 | 132 |
| 5 | 0.57 | 85 |

## nº 20
DN-0512-N3-00

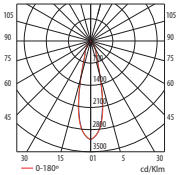
**Blanco cálido / Warm white - 3w -15º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 3885 |
| 2 | 0.23 | 971 |
| 3 | 0.34 | 432 |
| 4 | 0.46 | 243 |
| 5 | 0.57 | 155 |

## nº 21
05-3438-54-H6

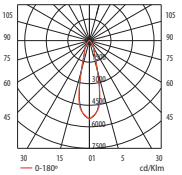
**Blanco neutro / Neutral white - 18w -25º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.47 | 1906 |
| 2 | 0.94 | 476 |
| 3 | 1.41 | 212 |
| 4 | 1.88 | 119 |
| 5 | 2.35 | 76 |

## nº 22
05-3442-54-H6

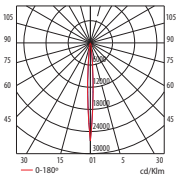
**Blanco neutro / Neutral hite - 36w -25º**




| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.48 | 3491 |
| 2 | 0.95 | 873 |
| 3 | 1.43 | 388 |
| 4 | 1.91 | 218 |
| 5 | 2.39 | 140 |

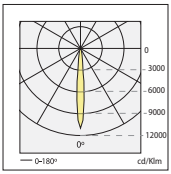
## nº 23
05-3358-N3-37

**Blanco frío / Cold white - 9w -15º**



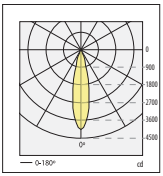

| H (m) | D (m) | Emed (lux) |
|---|---|---|
| 1 | 0.11 | 7242 |
| 2 | 0.23 | 1810 |
| 3 | 0.34 | 805 |
| 4 | 0.46 | 453 |
| 5 | 0.57 | 290 |

## nº 01
QR-CBC51 35W 10º
η=100 %



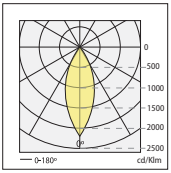

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 5066.55 | 0.18 |
| 2 | 1266.64 | 0.36 |
| 3 | 562.95 | 0.55 |
| 4 | 316.66 | 0.73 |

## nº 02
QR-CBC51 35W 24º
η=100 %



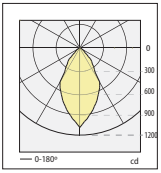

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1854.86 | 0.43 |
| 2 | 463.71 | 0.86 |
| 3 | 206.10 | 1.28 |
| 4 | 115.93 | 1.71 |

## nº 03
QR-CBC51 35W 36º
η=100 %



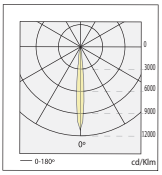

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 877.59 | 0.69 |
| 2 | 219.40 | 1.38 |
| 3 | 97.51 | 2.07 |
| 4 | 54.85 | 2.75 |

## nº 04
QR-CBC51 35W 60º
η=100 %



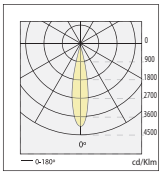

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 389.23 | 1.15 |
| 2 | 96.06 | 2.31 |
| 3 | 42.69 | 3.46 |
| 4 | 24.01 | 4.62 |

## nº 05
QR-CBC51 50W 10º
η=100 %



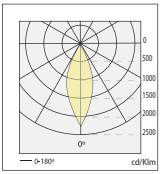

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 6237.31 | 0.18 |
| 2 | 1559.33 | 0.36 |
| 3 | 693.03 | 0.55 |
| 4 | 389.83 | 0.73 |

## nº 06
QR-CBC51 50W 24º
η=100 %



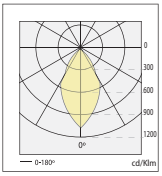

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2568.26 | 0.43 |
| 2 | 642.07 | 0.86 |
| 3 | 285.36 | 1.28 |
| 4 | 160.52 | 1.71 |

## nº 07
QR-CBC51 50W 36º
η=100 %



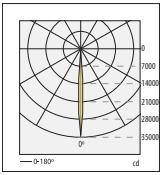

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1350.14 | 0.69 |
| 2 | 337.53 | 1.38 |
| 3 | 150.02 | 2.07 |
| 4 | 84.38 | 2.75 |

## nº 08
QR-CBC51 50W 60º
η=100 %



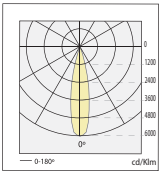

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 591.13 | 1.15 |
| 2 | 275.00 | 2.31 |
| 3 | 122.22 | 3.46 |
| 4 | 68.95 | 4.62 |

## nº 09
QR-111 60W 8º
η=100 %



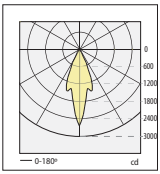

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 34096.61 | 0.12 |
| 2 | 8524.15 | 0.24 |
| 3 | 3788.35 | 0.36 |
| 4 | 2131.04 | 0.48 |

## nº 10
QR-111 60W 24º
η=100 %



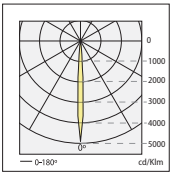

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 6057.03 | 0.40 |
| 2 | 1514.26 | 0.80 |
| 3 | 673.00 | 1.20 |
| 4 | 378.56 | 1.59 |

## nº 11
QR-111 60W 45º
η=100 %



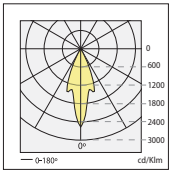

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1623.45 | 0.83 |
| 2 | 405.86 | 1.66 |
| 3 | 190.38 | 2.49 |
| 4 | 101.47 | 3.32 |

## nº 12
QR-111 100W 8º
η=100 %



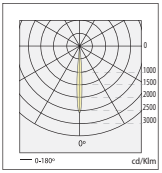

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 34123.65 | 0.11 |
| 2 | 8530.91 | 0.23 |
| 3 | 3791.52 | 0.34 |
| 4 | 2132.73 | 0.46 |

## nº 14
QR-111 G53 100W 45º
η=100 %



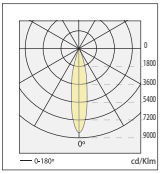

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1512.03 | 0.73 |
| 2 | 378.01 | 1.46 |
| 3 | 168.00 | 2.18 |
| 4 | 94.50 | 2.91 |

## nº 15
CDM-R111 35W 10º
η=100 %



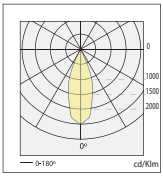

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 21476 | 0.15 |
| 1.5 | 9545 | 0.23 |
| 3 | 5369 | 0.30 |
| 4 | 2386.5 | 0.45 |

## nº 16
CDM-R111 35W 24º
η=100 %



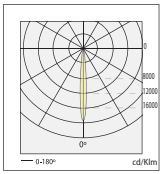

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 9331.27 | 0.38 |
| 2 | 2332.82 | 0.75 |
| 3 | 1036.81 | 1.13 |
| 4 | 583.20 | 1.51 |

## nº 17
CDM-R111 35W 40º
η=100 %



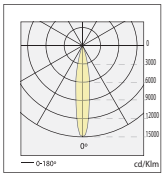

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2376.5 | 0.69 |
| 1.5 | 1056 | 1.03 |
| 2 | 594 | 1.38 |
| 3 | 264 | 2.07 |

## nº 18
CDM-R111 70W 10º
η=100 %



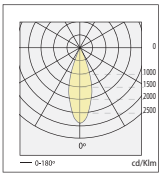

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 41523.4 | 0.17 |
| 1.5 | 18455 | 0.25 |
| 2 | 10380.5 | 0.34 |
| 3 | 4613.5 | 0.50 |

## nº 19
CDM-R111 70W 24º
η=100 %



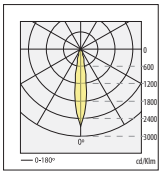

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 29205.14 | 0.38 |
| 2 | 7301.29 | 0.75 |
| 3 | 3245.02 | 1.13 |
| 4 | 1825.32 | 1.51 |

## nº 20
CDM-R111 70W 40º
η=100 %



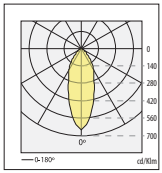

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 5956.5 | 0.62 |
| 1.5 | 2647.5 | 0.93 |
| 2 | 1489 | 1.25 |
| 3 | 661.5 | 1.87 |

## nº 21
MACH1 HIT-T 70W 10º
η=56.000 %



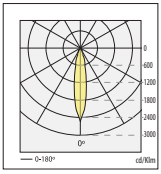

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 12507.38 | 0.32 |
| 2 | 3126.84 | 0.63 |
| 3 | 1389.71 | 0.95 |
| 4 | 781.71 | 1.26 |

## nº 22
MACH1 HIT-T 150W 45º
η=50.500 %



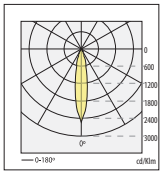

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 5896.75 | 0.69 |
| 2 | 1454.19 | 1.38 |
| 3 | 646.31 | 2.08 |
| 4 | 363.55 | 2.77 |

## nº 23
DUPLO HIT-TC 70W
η=60.200 %



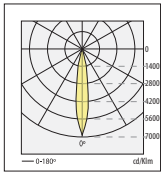

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 11790.41 | 0.35 |
| 2 | 2947.60 | 0.70 |
| 3 | 1310.05 | 1.05 |
| 4 | 736.90 | 1.40 |

## nº 24
DUPLO QT-TC 60W
η=60.200 %



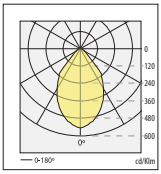

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2858.28 | 0.35 |
| 2 | 714.57 | 0.70 |
| 3 | 317.59 | 1.05 |
| 4 | 178.64 | 1.40 |

## nº 25
DUPLO 8x PowerLed 1W
η=87.54 %



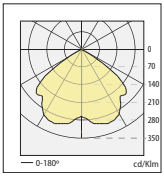

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1690.78 | 0.31 |
| 2 | 422.70 | 0.63 |
| 3 | 187.86 | 0.94 |
| 4 | 105.67 | 1.25 |

## nº 26
TRIMIUM HIT-DE 70W
η=65.600 %



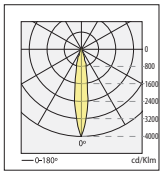

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1831.35 | 1.27 |
| 2 | 457.84 | 2.55 |
| 3 | 203.48 | 3.82 |
| 4 | 114.96 | 5.09 |

## nº 27
TRIMIUM 2x18W
η=66.600 %



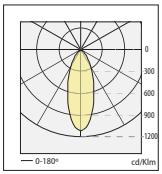

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 229.52 | 2.86 |
| 2 | 59.38 | 5.72 |
| 3 | 25.50 | 8.58 |
| 4 | 14.35 | 11.44 |

## nº 28
TRIMIUM E HIT-T 150W 12º
η=80.100 %



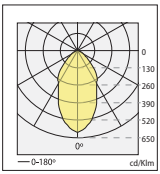

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 39001.26 | 0.32 |
| 2 | 9750.32 | 0.64 |
| 3 | 4333.97 | 0.95 |
| 4 | 2437.58 | 1.27 |

## nº 29
TRIMIUM E HIT-T 150W 40º
η=70.600 %



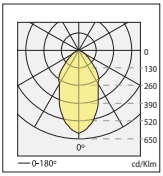

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 9906.60 | 0.70 |
| 2 | 2476.65 | 1.40 |
| 3 | 1100.73 | 2.10 |
| 4 | 619.16 | 2.80 |

## nº 30
TRIMIUM S130 HIT-TC 70W
η=57.900 %



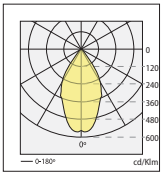

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1820.12 | 1.07 |
| 2 | 455.03 | 2.14 |
| 3 | 202.24 | 3.22 |
| 4 | 113.76 | 4.29 |

## nº 31
TRIMIUM S130 QT-TC 60W
η=64.900 %



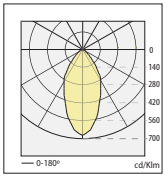

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 614.31 | 1.09 |
| 2 | 153.58 | 2.19 |
| 3 | 68.26 | 3.28 |
| 4 | 38.39 | 4.38 |

## nº 32
TRIMIUM S100 QT-12 100W + ACT-0291
η=48.500 %



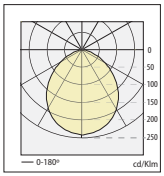

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 855.63 | 1.07 |
| 2 | 213.91 | 2.13 |
| 3 | 95.07 | 3.20 |
| 4 | 53.48 | 4.26 |

## nº 33
TRIMIUM S100 CDM-Tm 20W
η=67.640%



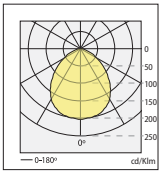

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 585.65 | 0.98 |
| 2 | 146.41 | 1.97 |
| 3 | 65.07 | 2.95 |
| 4 | 36.60 | 3.94 |

## nº 34
RAPID C HIT-DE 70W
η=53.900 %



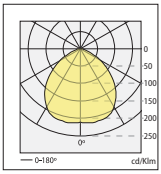

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 540.45 | 2.06 |
| 2 | 135.11 | 4.13 |
| 3 | 60.05 | 6.19 |
| 4 | 33.78 | 8.26 |

## nº 35
CUADRO1 1x18W + ACT-0253-B9
η=44.710 %



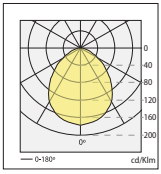

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 104.72 | 2.12 |
| 2 | 26.18 | 4.24 |
| 3 | 11.64 | 6.35 |
| 4 | 6.54 | 8.47 |

## nº 36
CUADRO1 1x18W + ACT-0253-H6
η=50.570 %



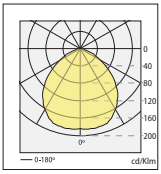

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 99.98 | 2.44 |
| 2 | 24.91 | 4.87 |
| 3 | 11.11 | 7.31 |
| 4 | 6.25 | 9.75 |

## nº 37
CUADRO2 2x26W + ACT-0258-B9
η=38.660 %



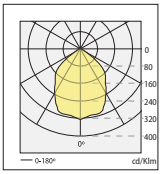

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 273.02 | 2.10 |
| 2 | 68.26 | 4.20 |
| 3 | 30.34 | 6.30 |
| 4 | 17.06 | 8.40 |

## nº 38
CUADRO2 2x26W + ACT-0258-H6
η=44.200 %



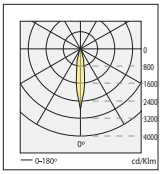

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 261.78 | 2.42 |
| 2 | 65.45 | 4.84 |
| 3 | 28.09 | 7.25 |
| 4 | 16.36 | 9.67 |

## nº 39
CARDEX E QT-12 100W
η=57.000 %



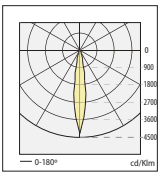

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 379.75 | 1.82 |
| 2 | 91.94 | 3.64 |
| 3 | 42.19 | 5.46 |
| 4 | 23.73 | 7.28 |

## nº 40
CARDEX E HIT-TC 70W
η=59.900 %



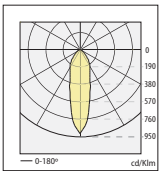

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 12939.19 | 0.32 |
| 2 | 3234.87 | 0.65 |
| 3 | 1437.72 | 0.97 |
| 4 | 808.72 | 1.29 |

## nº 41
CARDEX C HIT-T 70W 10º
η=69.600 %



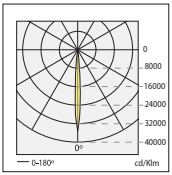

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 19057.38 | 0.28 |
| 2 | 4764.34 | 0.56 |
| 3 | 2117.49 | 0.84 |
| 4 | 1191.09 | 1.12 |

## nº 42
CARDEX C HIT-T 70W 45º
η= 59.400 %



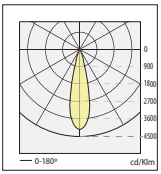

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 4030.65 | 0.52 |
| 2 | 1007.65 | 1.03 |
| 3 | 447.85 | 1.55 |
| 4 | 251.92 | 2.07 |

## nº 43
QR-70 50W 8º
η=100 %



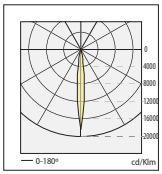

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 8920.82 | 0.13 |
| 2 | 2230.20 | 0.26 |
| 3 | 991.20 | 0.38 |
| 4 | 557.55 | 0.51 |

## nº 44
QR-70 50W 24º
η=100 %



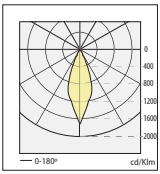

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1901.47 | 0.46 |
| 2 | 475.37 | 0.93 |
| 3 | 211.27 | 1.39 |
| 4 | 118.84 | 1.86 |

## nº 45
CARDEX CM CDM-Tm 20W 12º
η=70.500 %



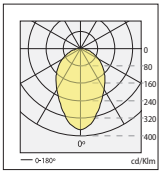

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 19170.46 | 0.20 |
| 2 | 4792.62 | 0.40 |
| 3 | 2130.05 | 0.60 |
| 4 | 1198.15 | 0.81 |

## nº 46
CARDEX CM CDM-Tm 20W 36º
η=68.400 %



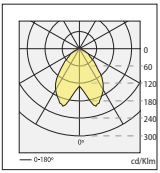

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1588.58 | 0.68 |
| 2 | 397.14 | 1.35 |
| 3 | 176.51 | 2.03 |
| 4 | 99.29 | 2.71 |

## nº 47
VITRO HIT-DE 70W
η=72.800 %



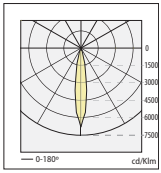

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1114.46 | 1.69 |
| 2 | 278.62 | 3.37 |
| 3 | 123.83 | 5.06 |
| 4 | 69.65 | 6.75 |

## nº 48
SATIN 26W
η=37.400 %



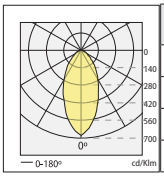

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 183.94 | 1.81 |
| 2 | 45.98 | 3.61 |
| 3 | 20.44 | 5.42 |
| 4 | 11.50 | 7.22 |

## nº 49
LEDIO PowerLed 1W 15º
η= 95.000 %



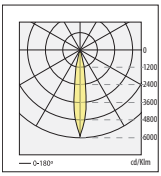

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 223.53 | 0.30 |
| 2 | 55.88 | 0.61 |
| 3 | 24.84 | 0.91 |
| 4 | 13.97 | 1.22 |

## nº 50
LEDIO PowerLed 1,2W 50º
η= 91.000 %



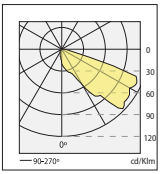

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 16.92 | 0.96 |
| 2 | 4.23 | 1.92 |
| 3 | 1.88 | 2.88 |
| 4 | 1.06 | 3.84 |

## nº 51
LEDIO PowerLed 3W 15º
η= 91.330 %



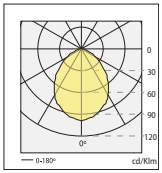

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 265.85 | 0.28 |
| 2 | 64.21 | 0.56 |
| 3 | 28.54 | 0.84 |
| 4 | 16.05 | 1.13 |

## nº 52
SIGN HALOPIN G9
η=12.760 %



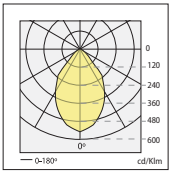

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1.24 | 6.63 |
| 2 | 0.31 | 13.27 |
| 3 | 0.14 | 19.90 |
| 4 | 0.08 | 26.53 |

## nº 53
SIGN PowerLed 1W
η=20.220 %



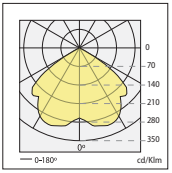

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1.92 | 2.00 |
| 2 | 0.49 | 4.00 |
| 3 | 0.22 | 6.00 |
| 4 | 0.12 | 8.00 |

## nº 54
TRIMIUM HIT-DE 150W
η=65.6 %



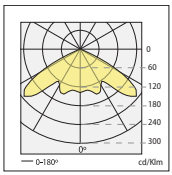

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 3662.71 | 1.27 |
| 2 | 915.68 | 2.55 |
| 3 | 406.97 | 3.82 |
| 4 | 228.92 | 5.09 |

## nº 55
TRIMIUM TC-D 2X26W sin cristal / *without glass*
η=66.6 %



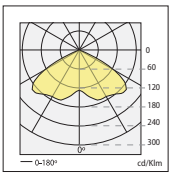

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 344.28 | 2.86 |
| 2 | 86.07 | 5.72 |
| 3 | 38.25 | 8.58 |
| 4 | 21.52 | 11.44 |

## nº 56
TRIMIUM TC-TEL 26W sin cristal / *without glass*
η=66.1 %



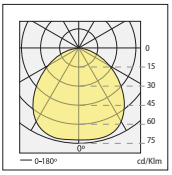

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 110.91 | 3.58 |
| 2 | 27.73 | 7.17 |
| 3 | 12.32 | 10.75 |
| 4 | 6.93 | 14.33 |

## nº 57
TRIMIUM TC-TEL 2X26W sin cristal / *without glass*
η=63.3 %



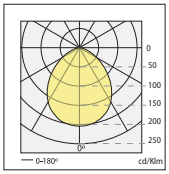

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 206.37 | 3.65 |
| 2 | 51.59 | 7.30 |
| 3 | 22.93 | 10.95 |
| 4 | 12.90 | 14.59 |

## nº 58
RAPID C TC-TEL 2X26W
η=20.54 %



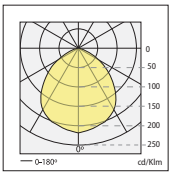

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 90.69 | 2.80 |
| 2 | 22.67 | 5.60 |
| 3 | 10.08 | 8.41 |
| 4 | 5.67 | 11.21 |

## nº 59
CUADRO TC-TEL 2X26W con reflector B9 / *with B9 reflector*
η=44.91 %



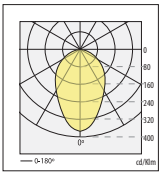

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 314.19 | 2.13 |
| 2 | 78.55 | 4.27 |
| 3 | 34.91 | 6.40 |
| 4 | 19.64 | 8.53 |

## nº 60
CUADRO TC-TEL 2X26W con reflector H6 / *with H6 reflector*
η=51.12 %



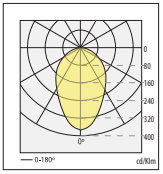

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 314.94 | 2.37 |
| 2 | 78.73 | 4.74 |
| 3 | 34.99 | 7.10 |
| 4 | 19.68 | 9.47 |

## nº 61
VITRO HIT-DE 150W
η=72.8 %



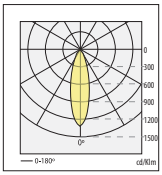

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2057.47 | 1.69 |
| 2 | 514.37 | 3.37 |
| 3 | 228.61 | 5.06 |
| 4 | 128.59 | 6.75 |

## nº 62
VITRO QT-DE 150W
η=72.800 %



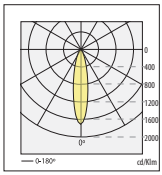

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 385.78 | 1.69 |
| 2 | 96.44 | 3.37 |
| 3 | 42.86 | 5.06 |
| 4 | 24.11 | 6.75 |

## nº 63
EXTRA HIT-TC G8.5 70W
η=51.900 %



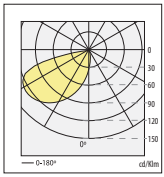

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 5764.07 | 0.51 |
| 2 | 1441.02 | 1.01 |
| 3 | 640.45 | 1.52 |
| 4 | 360.25 | 2.02 |

## nº 64
EXTRA Masterline-TC G8.5 60W
η=49.210 %



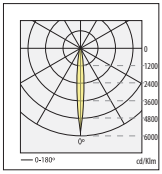

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1870.18 | 0.40 |
| 2 | 683.63 | 0.79 |
| 3 | 303.83 | 1.19 |
| 4 | 170.91 | 1.59 |

## nº 68
WALL QT-DE 100W
η=16.620 %



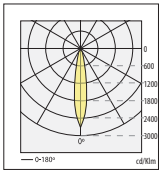

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 6.65 | 8.02 |
| 2 | 1.41 | 16.05 |
| 3 | 0.63 | 24.07 |
| 4 | 0.35 | 32.09 |

## nº 69
SIGN QR-CBC 51 50W
η=71.700 %



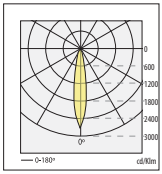

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 3462.45 | 0.17 |
| 2 | 865.61 | 0.34 |
| 3 | 384.72 | 0.51 |
| 4 | 216.40 | 0.68 |

## nº 79
MACH1 HIT-T 35W 10º
η=56 %



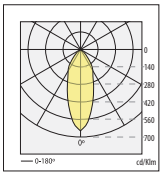

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 6253.69 | 0.32 |
| 2 | 1563.42 | 0.63 |
| 3 | 694.85 | 0.95 |
| 4 | 390.86 | 1.26 |

## nº 80
MACH1 HIT-T 150W 10º
η=56 %



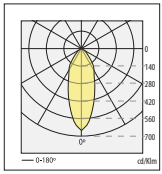

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 26530.80 | 0.32 |
| 2 | 6632.70 | 0.63 |
| 3 | 2947.87 | 0.95 |
| 4 | 1658.18 | 1.26 |

## nº 81
MACH1 HIT-T 35W 45º
η=50.500 %



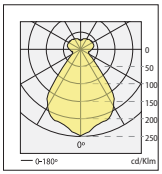

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1371.09 | 0.69 |
| 2 | 342.77 | 1.38 |
| 3 | 152.34 | 2.08 |
| 4 | 85.69 | 2.77 |

## nº 82
MACH1 HIT-T 70W 45º
η=50.500 %



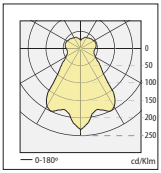

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2742.18 | 0.69 |
| 2 | 685.55 | 1.38 |
| 3 | 304.69 | 2.08 |
| 4 | 171.39 | 2.77 |

## nº 83
FILIPA P QT-TC 60W
η=70 %



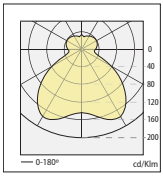

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 211.76 | 1.63 |
| 2 | 52.94 | 3.26 |
| 3 | 23.53 | 4.88 |
| 4 | 13.23 | 6.51 |

## nº 84
FILIPA HIT-T 70W con reflector B9
η=73.400 %



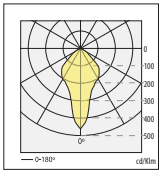

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 783.24 | 1.63 |
| 2 | 195.81 | 3.26 |
| 3 | 87.63 | 4.89 |
| 4 | 48.95 | 6.51 |

## nº 85
FILIPA G PL-H 120W con reflector B9
η=78.600 %



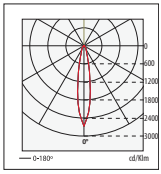

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 459.93 | 3.27 |
| 2 | 114.98 | 6.53 |
| 3 | 51.10 | 9.80 |
| 4 | 28.75 | 13.06 |

## nº 86
FILIPA G HIT-T 70W con reflector S2 / *with S2 reflector*
η=54.200 %



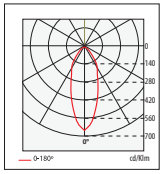

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1725.71 | 0.70 |
| 2 | 431.43 | 1.40 |
| 3 | 191.75 | 2.10 |
| 4 | 107.86 | 2.80 |

## nº 87
BUBO PR-0909 HIT-T 35W-10º
η=70.5 %



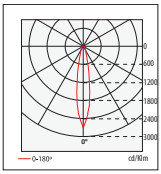

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 6253.42 | 0.32 |
| 2 | 1563.42 | 0.63 |
| 3 | 694.85 | 0.95 |
| 4 | 390.86 | 1.26 |

## nº 88
BUBO PR-0910 HIT-T 35W-45º
η=68.4 %



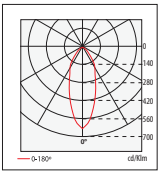

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1371.09 | 0.69 |
| 2 | 342.77 | 1.38 |
| 3 | 152.34 | 2.08 |
| 4 | 85.69 | 2.77 |

## nº 89
BUBO PR-0911 HIT-T 70W-10º
η=68.4 %



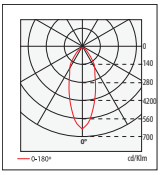

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 12507.38 | 0.32 |
| 2 | 3126.84 | 0.63 |
| 3 | 1389.71 | 0.95 |
| 4 | 781.71 | 1.26 |

## nº 90
BUBO PR-0912 HIT-T 70W-45º
η=68.4 %



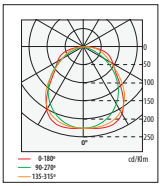

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2742.18 | 0.69 |
| 2 | 685.55 | 1.38 |
| 3 | 304.69 | 2.08 |
| 4 | 171.39 | 2.77 |

## nº 92
BUBO PR-0914 HIT-T 150W-45º
η=68.4 %



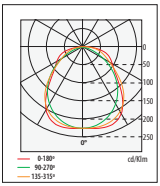

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 5816.75 | 0.69 |
| 2 | 1454.19 | 1.38 |
| 3 | 646.31 | 2.08 |
| 4 | 363.55 | 2.77 |

## nº 93
BORBOLETA AD-0616 TL5 G5-3x14W
η=61,52 %



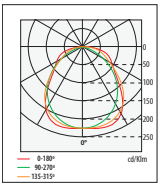

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 314.09 | 2.46 |
| 2 | 78.52 | 4.92 |
| 3 | 34.90 | 7.38 |
| 4 | 19.63 | 9.84 |

## nº 94
BORBOLETA TL5 G5-2x14W
η=61,52 %



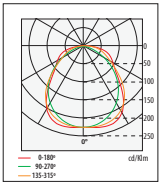

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 209.39 | 2.46 |
| 2 | 52.35 | 4.92 |
| 3 | 23.27 | 7.38 |
| 4 | 13.09 | 9.84 |

## nº 95
BORBOLETA TL5 G5-3x24W
η=61,52 %



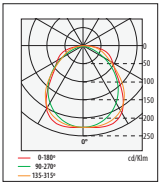

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 485.05 | 2.46 |
| 2 | 114.51 | 4.92 |
| 3 | 50.89 | 7.38 |
| 4 | 28.63 | 9.84 |

## nº 96
BORBOLETA TL5 G5-2x24W
η=61,52 %



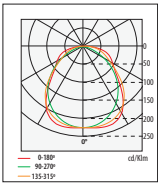

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 305.37 | 2.46 |
| 2 | 76.34 | 4.92 |
| 3 | 33.93 | 7.38 |
| 4 | 19.09 | 9.84 |

## nº 97
BORBOLETA TL5 G5-3x14W
η=61,52 %



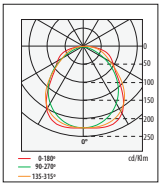

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 314.09 | 2.46 |
| 2 | 78.52 | 4.92 |
| 3 | 34.90 | 7.38 |
| 4 | 19.63 | 9.84 |

## nº 98
BORBOLETA TL5 G5-2x14W
η=61,52 %



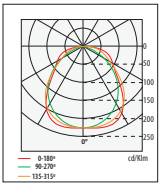

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 209.39 | 2.46 |
| 2 | 52.35 | 4.92 |
| 3 | 23.27 | 7.38 |
| 4 | 13.09 | 9.84 |

## nº 99
BORBOLETA TL5 G5-3x24W
η=61,52 %



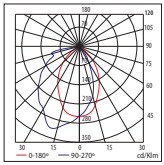

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 458.05 | 2.46 |
| 2 | 114.51 | 4.92 |
| 3 | 50.89 | 7.38 |
| 4 | 28.63 | 9.84 |

## nº 100
BORBOLETA TL5 G5-2x24W
η=61,52 %



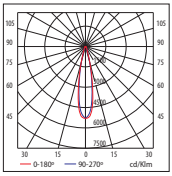

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 305.37 | 2.46 |
| 2 | 76.34 | 4.92 |
| 3 | 33.93 | 7.38 |
| 4 | 19.09 | 9.84 |

## nº 102
CUADRO HIT DE 70W
η=43,74 %



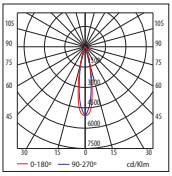

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 550 | 1.40 |
| 2 | 138 | 2.80 |
| 3 | 61 | 4.20 |
| 4 | 34 | 5.60 |
| 5 | 22 | 7.00 |

## nº 103
DELTA 6 90-3427
Blanco cálido / Warm white - 12w -40º
η=100 %



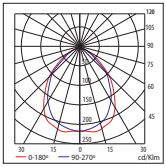

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1803 | 0.39 |
| 2 | 451 | 0.78 |
| 3 | 200 | 1.16 |
| 4 | 113 | 1.54 |
| 5 | 72 | 1.93 |

## nº 104
DELTA 9 90-3428
Blanco cálido / Warm white - 18w -40º
η=100 %



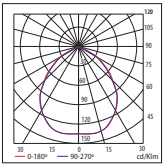

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2244 | 0.39 |
| 2 | 561 | 0.78 |
| 3 | 249 | 1.17 |
| 4 | 140 | 1.56 |
| 5 | 90 | 1.95 |

## nº 109
CAMALEON DN-1301 GX24q-3
η=50,01 %



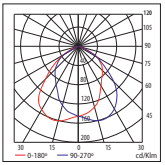

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 368 | 2.28 |
| 2 | 92 | 4.56 |
| 3 | 41 | 6.84 |
| 4 | 23 | 9.12 |
| 5 | 15 | 11.39 |

## nº 110
SATIN DM-0044-14-00 1x32W TC-TEL opal
η=28,89 %



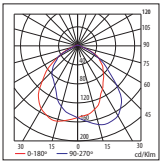

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 114 | 2.22 |
| 2 | 29 | 4.44 |
| 3 | 13 | 6.67 |
| 4 | 7 | 8.89 |
| 5 | 5 | 11.11 |

## nº 111
SATIN DM-0045-14-00 2x26W TC-TEL opal
η=32,64 %



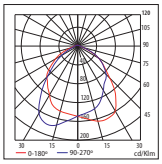

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 225 | 1.91 |
| 2 | 56 | 3.81 |
| 3 | 25 | 5.72 |
| 4 | 14 | 7.62 |
| 5 | 9 | 9.53 |

## nº 112
SATIN DM-0046-14-00 3x26W TC-TEL opal
η=35,22 %



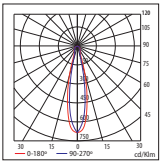

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 321 | 2.10 |
| 2 | 80 | 4.20 |
| 3 | 36 | 6.30 |
| 4 | 20 | 8.40 |
| 5 | 13 | 10.50 |

## nº 113
SATIN DM-0047-14-00 4x26W TC-TEL opal
η=33,82 %



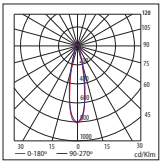

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 409 | 2.21 |
| 2 | 102 | 4.42 |
| 3 | 45 | 6.62 |
| 4 | 26 | 8.83 |
| 5 | 16 | 11.04 |

## nº 114
SATIN DM-0058-14-00 2x18
η=21,99 %



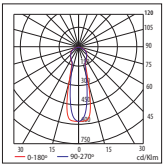

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1266 | 0.44 |
| 2 | 317 | 0.89 |
| 3 | 141 | 1.33 |
| 4 | 79 | 1.78 |
| 5 | 51 | 2.22 |

## nº 115
SATIN DM-0059-14-00 2x24W
η=27,26 %



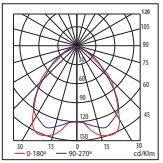

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2461 | 0.37 |
| 2 | 615 | 0.74 |
| 3 | 273 | 1.11 |
| 4 | 154 | 1.48 |
| 5 | 98 | 1.85 |

## nº 116
SATIN DM-0060-14-00 FC 22+40W 50W
η=43,15 %



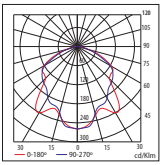

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1927 | 0.55 |
| 2 | 482 | 1.09 |
| 3 | 214 | 1.64 |
| 4 | 120 | 2.18 |
| 5 | 77 | 2.73 |

## nº 117
TRIMIUM S130 1x26W GX24q-3
η=34,56 %



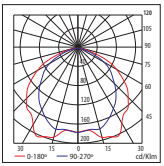

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 107 | 2.13 |
| 2 | 27 | 4.27 |
| 3 | 12 | 6.40 |
| 4 | 7 | 8.54 |
| 5 | 4 | 7.00 |

## nº 118
ECO DN-1400-14-00 18W TC-D opal
η= 64,34 %



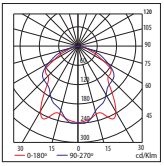

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 63 | 3.21 |
| 2 | 16 | 6.42 |
| 3 | 7 | 9.63 |
| 4 | 4 | 12.85 |
| 5 | 3 | 16.06 |

## nº 119
ECO DN-1401-14-00 2x18W TC-D opal
η=54,75 %



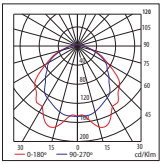

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 130 | 3.38 |
| 2 | 33 | 6.77 |
| 3 | 14 | 10.15 |
| 4 | 8 | 13.54 |
| 5 | 5 | 16.92 |

## nº 120
DN-1402-14-00 1x26W G24d-3
η=65,36 %



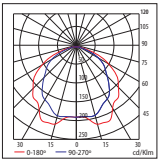

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 105 | 2.86 |
| 2 | 26 | 5.72 |
| 3 | 12 | 8.58 |
| 4 | 7 | 11.44 |
| 5 | 4 | 14.30 |

## nº 121
DN-1403-14-00 2x26W G24d-3
η=47,49 %



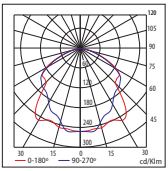

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 198 | 2.85 |
| 2 | 50 | 5.69 |
| 3 | 22 | 8.54 |
| 4 | 12 | 11.38 |
| 5 | 8 | 14.23 |

## nº 122
ECO DN-1406-14-00 2x18W G24q-2 dif. opal
η=60,87 %



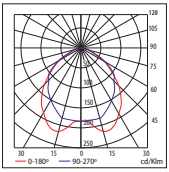

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 138 | 3.49 |
| 2 | 34 | 6.97 |
| 3 | 15 | 10.46 |
| 4 | 9 | 13.94 |
| 5 | 6 | 17.43 |

## nº 123
ECO DN-1407-14-00 1x26W G24q-2 dif. opal
η=69,05 %



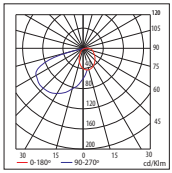

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 91 | 3.42 |
| 2 | 23 | 6.84 |
| 3 | 10 | 10.26 |
| 4 | 6 | 13.69 |
| 5 | 4 | 17.11 |

## nº 124
DN-1408-14-00 2x26W G24q-3
η=53,15 %



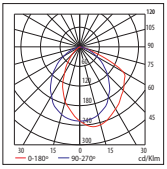

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 255 | 2.32 |
| 2 | 64 | 4.65 |
| 3 | 28 | 6.97 |
| 4 | 16 | 9.29 |
| 5 | 10 | 11.62 |

## nº 125
WALL EP-0344-N3-XY 1x26W TC-TEL opal
η=18,60 %



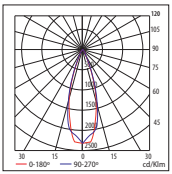

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 14 | 1.80 |
| 2 | 3 | 3.60 |
| 3 | 2 | 5.40 |
| 4 | 1 | 7.20 |
| 5 | 1 | 9.00 |

## nº 126
WALL EP-0347-N3-00 1x24W T5 opal
η=47,80 %



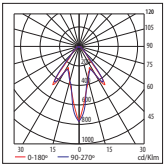

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 118 | 2.42 |
| 2 | 30 | 4.84 |
| 3 | 13 | 7.27 |
| 4 | 7 | 9.69 |
| 5 | 5 | 12.11 |

## nº 127
SIGN EP-0348-00-00 50W dicro opal
η=85,46 %



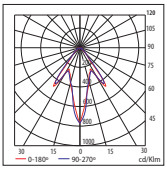

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1342 | 0.58 |
| 2 | 336 | 1.16 |
| 3 | 149 | 1.75 |
| 4 | 84 | 2.33 |
| 5 | 54 | 2.91 |

## nº 128
FILIPA SP-0089-N3-37 HIT-T 70W G12 dif.
con reflector 37 / *with 37 reflector*
η=85,45 %



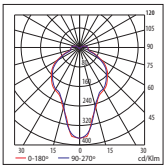

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2704 | 0.50 |
| 2 | 676 | 1.01 |
| 3 | 300 | 1.51 |
| 4 | 169 | 2.01 |
| 5 | 108 | 2.52 |

## nº 129
FILIPA SP-0090-N3-37 HIT-T 70W G12 dif.
η=85,45 %



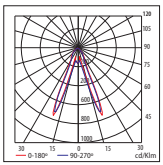

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 2704 | 0.50 |
| 2 | 676 | 1.01 |
| 3 | 300 | 1.51 |
| 4 | 169 | 2.01 |
| 5 | 108 | 2.52 |

## nº 130
FILIPA SP-0091-N3-37 PL-H 85W 2G8
η=85,64 %



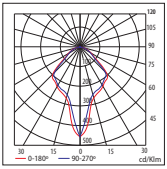

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 840 | 1.53 |
| 2 | 210 | 3.07 |
| 3 | 93 | 4.60 |
| 4 | 52 | 6.14 |
| 5 | 34 | 7.67 |

## nº 132
FILIPA SP-0108-N3-37 halog 60W G8.5
η=43,71 %



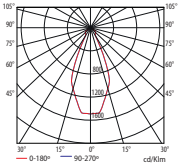

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 689 | 0.15 |
| 2 | 172 | 0.30 |
| 3 | 77 | 0.45 |
| 4 | 43 | 0.60 |
| 5 | 28 | 0.74 |

## nº 131
FILIPA SP-0092-N3-S2 PL-H 85W 2G8
η=68,94 %



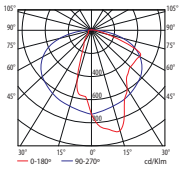

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 496 | 1.22 |
| 2 | 124 | 2.45 |
| 3 | 55 | 3.67 |
| 4 | 31 | 4.90 |
| 5 | 20 | 6.12 |

## nº 134
QPAR-16 GU10
η= 100 %



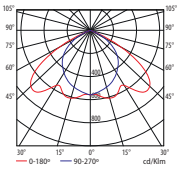

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 733 | 1.5 |
| 2 | 183 | 3 |
| 3 | 81 | 4.48 |
| 4 | 46 | 5.98 |

## nº 135
INFINITE AD-0654-N3-00 1x80W T5
η= 33,52 %



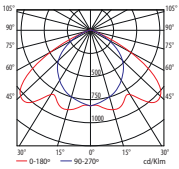

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 113 | 2.43 |
| 2 | 28 | 4.87 |
| 3 | 13 | 7.30 |
| 4 | 7 | 9.74 |
| 5 | 5 | 12.17 |

## nº 136
INFINITE AD-0656-N3-00 1x39W T5
η= 59,79 %



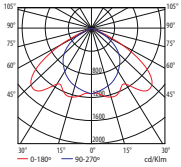

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 211 | 3.52 |
| 2 | 53 | 7.05 |
| 3 | 23 | 10.57 |
| 4 | 13 | 14.10 |
| 5 | 8 | 17.62 |

## nº 137
INFINITE AD-0657-N3-00 1x54W T5
η= 59,79 %



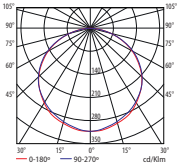

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 302 | 3.52 |
| 2 | 76 | 7.05 |
| 3 | 34 | 10.57 |
| 4 | 19 | 14.10 |
| 5 | 12 | 17.62 |

## nº 138
INFINITE AD-0658-N3-00 1x80W T5
η= 59,79 %



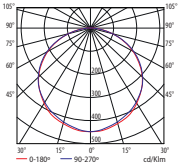

| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 418 | 3.52 |
| 2 | 105 | 7.05 |
| 3 | 46 | 10.57 |
| 4 | 26 | 14.10 |
| 5 | 17 | 17.62 |

## nº 139
INFINITE AD-0659-N3-00 1x39W T5
η= 30,76 %




| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 64 | 3.36 |
| 2 | 16 | 6.71 |
| 3 | 7 | 10.07 |
| 4 | 4 | 13.42 |
| 5 | 3 | 16.78 |

## nº 140
INFINITE AD-0660-N3-00 1x54W T5
η= 30,76 %

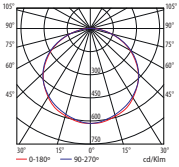



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 92 | 3.36 |
| 2 | 23 | 6.71 |
| 3 | 10 | 10.07 |
| 4 | 6 | 13.42 |
| 5 | 4 | 16.78 |

## nº 141

INFINITE AD-0661-N3-00 1x80W T5

η= 30,76 %

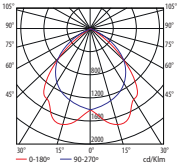



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 128 | 3.36 |
| 2 | 32 | 6.71 |
| 3 | 14 | 10.07 |
| 4 | 8 | 13.42 |
| 5 | 5 | 16.78 |

## nº 142

INFINITE AD-0662-N3-00 2x39W T5

η= 55,97 %

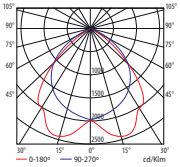



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 686 | 2.05 |
| 2 | 172 | 4.09 |
| 3 | 76 | 6.14 |
| 4 | 43 | 8.19 |
| 5 | 27 | 10.23 |

## nº 143

INFINITE AD-0663-N3-00 2x54W T5

η= 55,97 %

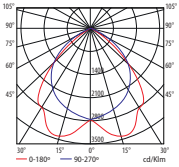



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 985 | 2.05 |
| 2 | 246 | 4.09 |
| 3 | 109 | 6.14 |
| 4 | 62 | 8.19 |
| 5 | 39 | 10.23 |

## nº 144

INFINITE AD-0664-N3-00 2x80W T5

η= 55,97 %

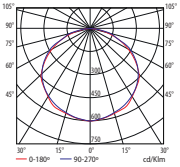



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 1361 | 2.05 |
| 2 | 340 | 4.09 |
| 3 | 151 | 6.14 |
| 4 | 85 | 8.19 |
| 5 | 54 | 10.23 |

## nº 145

INFINITE AD-0665-N3-00 2x39W T5

η= 28,40 %

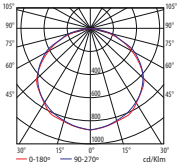



| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 110 | 3.46 |
| 2 | 27 | 6.93 |
| 3 | 12 | 10.39 |
| 4 | 7 | 13.86 |
| 5 | 4 | 17.32 |

## nº 146

INFINITE AD-0666-N3-00 2x54W T5

η= 28,40 %




| H (m) | Emed (lux) | D (m) |
|---|---|---|
| 1 | 158 | 3.46 |
| 2 | 39 | 6.93 |
| 3 | 18 | 10.39 |
| 4 | 10 | 13.86 |
| 5 | 6 | 17.32 |

| Symbol | Abbreviation | wattage | voltage | Lamp holder | Osram | Half peak | luminous | Colour temp. | IRC | Average Life | Philips | Half peak | luminous | Colour temp. | IRC | Average Life |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Zvei | P(w) | U (v) | | | value º | intensity (lm) flux (cd) | (ºk) | % | (h) | | value º | intensity (lm) flux (cd) | (ºk) | % | (h) |
| | QR-LP 111 | | | | | | | | | | | | | | | |
| | | 30 W | 12 V | G53 | | | | | | | MASTER Line 111 | 8º | 23000cd | 3000 | 100 | 4000 |
| | | 30 W | 12 V | G53 | | | | | | | MASTER Line 111 | 24º | 4000cd | 3000 | 100 | 4000 |
| | | 35 W | 12 V | G53 | HALOSPOT 111 | 4º | 35000cd | 3000 | 100 | 3000 | | | | | | |
| | | 35 W | 12 V | G53 | HALOSPOT 111 IRC | 8º | 22500cd | 3000 | 100 | 4000 | | | | | | |
| | | 35 W | 12 V | G53 | HALOSPOT 111 | 24º | 2500cd | 3000 | 100 | 3000 | | | | | | |
| | | 35 W | 12 V | G53 | HALOSPOT 111 IRC | 24º | 4500cd | 3000 | 100 | 4000 | | | | | | |
| | | 45 W | 12 V | G53 | | | | | | | MASTER Line 111 | 8º | 33000cd | 3000 | 100 | 4000 |
| | | 45 W | 12 V | G53 | | | | | | | MASTER Line 111 | 24º | 5300cd | 3000 | 100 | 4000 |
| | | 45 W | 12 V | G53 | | | | | | | MASTER Line 111 | 45º | 1900cd | 3000 | 100 | 4000 |
| | | 50 W | 12 V | G53 | HALOSPOT 111 | 4º | 40000cd | 3000 | 100 | 3000 | | | | | | |
| | | 50 W | 12 V | G53 | HALOSPOT 111 | 8º | 20000cd | 3000 | 100 | 3000 | | | | | | |
| | | 50 W | 12 V | G53 | HALOSPOT 111 IRC | 8º | 33000cd | 3000 | 100 | 4000 | ALULINE Pro | 8º | 23000cd | 3000 | 100 | 3000 |
| | | 50 W | 12 V | G53 | HALOSPOT 111 | 24º | 4000cd | 3000 | 100 | 3000 | | | | | | |
| | | 50 W | 12 V | G53 | HALOSPOT 111 IRC | 24º | 5800cd | 3000 | 100 | 4000 | ALULINE Pro | 24º | 4000cd | 3000 | 100 | 3000 |
| | | 50 W | 12 V | G53 | HALOSPOT 111 | 45º | 1400cd | 3000 | 100 | 3000 | | | | | | |
| | | 50 W | 12 V | G53 | HALOSPOT 111 IRC | 45º | 2000cd | 3000 | 100 | 4000 | | | | | | |
| | | 60 W | 12 V | G53 | | | | | | | MASTER Line 111 | 8º | 48000cd | 3000 | 100 | 4000 |
| | | 60 W | 12 V | G53 | | | | | | | MASTER Line 111 | 24 | 8500cd | 3000 | 100 | 4000 |
| | | 60 W | 12 V | G53 | | | | | | | MASTER Line 111 | 45º | 2800cd | 3000 | 100 | 4000 |
| | | 65 W | 12 V | G53 | HALOSPOT 111 IRC | 8º | 45000cd | 3000 | 100 | 4000 | | | | | | |
| | | 65 W | 12 V | G53 | HALOSPOT 111 IRC | 24º | 8500cd | 3000 | 100 | 4000 | | | | | | |
| | | 65 W | 12 V | G53 | HALOSPOT 111 IRC | 45º | 2800cd | 3000 | 100 | 4000 | | | | | | |
| | | 75 W | 12 V | G53 | HALOSPOT 111 | 8º | 30000cd | 3000 | 100 | 3000 | ALULINE Pro | 8º | 30000cd | 3000 | 100 | 3000 |
| | | 75 W | 12 V | G53 | HALOSPOT 111 | 24º | 5300cd | 3000 | 100 | 3000 | ALULINE Pro | 24 | 5300cd | 3000 | 100 | 3000 |
| | | 75 W | 12 V | G53 | HALOSPOT 111 | 45º | 2000cd | 3000 | 100 | 3000 | ALULINE Pro | 45º | - | 3000 | 100 | 3000 |
| | | 100W | 12 V | G53 | HALOSPOT 111 | 8º | 48000cd | 3000 | 100 | 3000 | ALULINE Pro | 8º | 48000cd | 3000 | 100 | 3000 |
| | | 100W | 12 V | G53 | HALOSPOT 111 | 24º | 8500cd | 3000 | 100 | 3000 | ALULINE Pro | 24 | 8500cd | 3000 | 100 | 3000 |
| | | 100W | 12 V | G53 | HALOSPOT 111 | 45º | 2800cd | 3000 | 100 | 3000 | ALULINE Pro | 45º | - | 3000 | 100 | 3000 |
| | QR-LP 70 | | | | | | | | | | | | | | | |
| | | 20W | 12V | BA 15d 70 | HALOSPOT 70 | 8º | 7700cd | 3000 | 100 | 3000 | | | | | | |
| | | 20W | 12V | BA 15d 70 | HALOSPOT 70 | 24º | 900cd | 3000 | 100 | 3000 | | | | | | |
| | | 50W | 12V | BA 15d 70 | HALOSPOT 70 | 8º | 12500cd | 3000 | 100 | 3000 | | | | | | |
| | | 50W | 12V | BA 15d 70 | HALOSPOT 70 | 24º | 2600cd | 3000 | 100 | 3000 | | | | | | |
| | QR-CBCS1 | | | | | | | | | | | | | | | |
| | | 20W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 8º | 6500cd | 3000 | 100 | 5000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 10º | 5000cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 10º | 5000cd | 3000 | 100 | 4000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 IRC | 10º | 6000cd | 3000 | 100 | 5000 | BRILLANTINE Pro | 24º | 1800cd | 3000 | 100 | 4000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 IRC | 24º | 2300cd | 3000 | 100 | 5000 | BRILLANTINE Pro | 30º | 780cd | 3000 | 100 | 4000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 36º | 780cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 36º | 780cd | 3000 | 100 | 4000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 IRC | 36º | 1000cd | 3000 | 100 | 5000 | MASTER LINE ES | 36º | 1000cd | 3000 | 100 | 5000 |
| | | 30W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 60º | 350cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 60º | 350cd | 3000 | 100 | 5000 |
| | | 20W | 12V | GU 5,3 | DECOSTAR 51 IRC | 60º | 450cd | 3000 | 100 | 5000 | | | | | | |
| | | 30W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 8º | 11000cd | 3000 | 100 | 5000 |
| | | 30W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 24º | 33500cd | 3000 | 100 | 5000 |
| | | 30W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 36º | 1600cd | 3000 | 100 | 5000 |
| | | 30W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 60º | 750cd | 3000 | 100 | 5000 |
| | | 35W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 8º | 14000cd | 3000 | 100 | 5000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 10º | 9100cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 10º | 10000cd | 3000 | 100 | 4000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 IRC | 10º | 12500cd | 3000 | 100 | 5000 | BRILLANTINE Pro | 10º | 8000cd | 3000 | 100 | 4000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 24º | 3100cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 24º | 3100cd | 3000 | 100 | 4000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 IRC | 24º | 4400cd | 3000 | 100 | 5000 | MASTER LINE ES | 24º | 4400cd | 3000 | 100 | 5000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 36º | 1500cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 36º | 1500cd | 3000 | 100 | 4000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 IRC | 36º | 2200cd | 3000 | 100 | 5000 | MASTER LINE ES | 36º | 2200cd | 3000 | 100 | 5000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 60º | 700cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 60º | 700cd | 3000 | 100 | 4000 |
| | | 35W | 12V | GU 5,3 | DECOSTAR 51 IRC | 60º | 1100cd | 3000 | 100 | 5000 | MASTER LINE ES | 60º | 1050cd | 3000 | 100 | 5000 |
| | | 45W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 8º | 16000cd | 3000 | 100 | 5000 |
| | | 45W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 24º | 5450cd | 3000 | 100 | 5000 |
| | | 45W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 36º | 2850cd | 3000 | 100 | 5000 |
| | | 45W | 12V | GU 5,3 | | | | | | | MASTER LINE ES | 60º | 1300cd | 3000 | 100 | 5000 |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 10º | 12500cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 24º | 4400cd | 3000 | 100 | 4000 |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 IRC | 10º | 15000cd | 3000 | 100 | 5000 | BRILLANTINE Pro | 36º | 2200cd | 3000 | 100 | 4000 |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 24º | 4400cd | 3000 | 100 | 4000 | BRILLANTINE Pro | 50º | 1100cd | 3000 | 100 | 4000 |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 IRC | 24º | 5700cd | 3000 | 100 | 5000 | | | | | | |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 36º | 2200cd | 3000 | 100 | 4000 | | | | | | |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 IRC | 36º | 2850cd | 3000 | 100 | 5000 | | | | | | |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 TITAN | 60º | 1100cd | 3000 | 100 | 4000 | | | | | | |
| | | 50W | 12V | GU 5,3 | DECOSTAR 51 IRC | 60º | 1430cd | 3000 | 100 | 5000 | | | | | | |
| | QT-12 ax | | | | | | | | | | | | | | | |
| | | 20W | 12V | GY 6,35 | HALOSTAR Starlite | - | 320lm | 3000 | 100 | 4000 | CAPSULINE Pro | - | 300lm | 3000 | 100 | 4000 |
| | | 25W | 12V | GY 6,35 | HALOSTAR IRC | - | 500lm | 3000 | 100 | 4000 | | | | | | |
| | | 35W | 12V | GY 6,35 | HALOSTAR Starlite | - | 600lm | 3000 | 100 | 4000 | CAPSULINE Pro | - | 600lm | 3000 | 100 | 4000 |
| | | 35W | 12V | GY 6,35 | HALOSTAR IRC | - | 900lm | 3000 | 100 | 4000 | | | | | | |
| | | 50W | 12V | GY 6,35 | HALOSTAR Starlite | - | 910lm | 3000 | 100 | 4000 | CAPSULINE Pro | - | 950lm | 3000 | 100 | 4000 |
| | | 50W | 12V | GY 6,35 | HALOSTAR IRC | - | 1250lm | 3000 | 100 | 4000 | | | | | | |
| | | 65W | 12V | GY 6,35 | HALOSTAR IRC | - | 1700lm | 3000 | 100 | 4000 | | | | | | |
| | | 75W | 12V | GY 6,35 | HALOSTAR Starlite | - | 1450lm | 3000 | 100 | 4000 | CAPSULINE Pro | - | 1575lm | 3000 | 100 | 4000 |
| | | 90W | 12V | GY 6,35 | HALOSTAR Starlite | - | 1800lm | 3000 | 100 | 4000 | | | | | | |
| | | 100W | 12V | GY 6,35 | | | | | | | CAPSULINE Pro | - | 2550lm | 3000 | 100 | 4000 |
| | QT-TC | | | | | | | | | | | | | | | |
| | | 45W | 12V | G 8,5 | | | | | | | MASTER Line TC | - | 1100lm | 3000 | 100 | 5000 |
| | | 60W | 12V | G 8,5 | | | | | | | MASTER Line TC | - | 1600lm | 3000 | 100 | 5000 |
| | QT-DE 12 | | | | | | | | | | | | | | | |
| | | 60W | 230V | R7s | HALOLINE | - | 840lm | 3000 | 100 | 2000 | PLUSLINE Pro | - | 828lm | 3000 | 100 | 2000 |
| | | 100W | 230V | R7s | HALOLINE | - | 1600lm | 3000 | 100 | 2000 | PLUSLINE Pro | - | 1550lm | 3000 | 100 | 2000 |
| | | 150W | 230V | R7s | HALOLINE | - | 2500lm | 3000 | 100 | 2000 | PLUSLINE Pro | - | 2250lm | 3000 | 100 | 2000 |
| | | 200W | 230V | R7s | HALOLINE | - | 3500lm | 3000 | 100 | 2000 | PLUSLINE Pro | - | 3520lm | 3000 | 100 | 2000 |
| | | 300W | 230V | R7s | HALOLINE | - | 5300lm | 3000 | 100 | 2000 | PLUSLINE Pro | - | 5600lm | 3000 | 100 | 2000 |

| Symbol | Abbreviation | wattage | voltage | Lamp holder | Osram | Half peak | luminous | Colour temp. | IRC | Average Life | Philips | Half peak | luminous | Colour temp. | IRC | Average Life |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Zvei | P(w) | U (v) | | | value º | intensity (lm) flux (cd) | (ºk) | % | (h) | | value º | intensity (lm) flux (cd) | (ºk) | % | (h) |
| | QT-16 | | | | | | | | | | | | | | | |
| | | 25W | 230V | G9 | HALOPIN clear | - | 260lm | 2900 | 100 | 2000 | Clickline MV clear | - | 290lm | 2770 | 100 | 2000 |
| | | 40W | 230V | G9 | HALOPIN clear | - | 490lm | 2900 | 100 | 2000 | Clickline MV clear | - | 490lm | 2770 | 100 | 2000 |
| | | 60W | 230V | G9 | HALOPIN clear | - | 820lm | 2900 | 100 | 2000 | Clickline MV clear | - | 820lm | 2700 | 100 | 2000 |
| | | 75W | 230V | G9 | HALOPIN clear | - | 1100lm | 2900 | 100 | 2000 | Clickline MV clear | - | 1100lm | 2770 | 100 | 2000 |
| | | 25W | 230V | G9 | HALOPIN matt | - | 230lm | 2900 | 100 | 2000 | Clickline MV frosted | - | 260lm | 2800 | 100 | 2000 |
| | | 40W | 230V | G9 | HALOPIN matt | - | 460lm | 2900 | 100 | 2000 | Clickline MV frosted | - | 460lm | 2800 | 100 | 2000 |
| | | 60W | 230V | G9 | HALOPIN matt | - | 790lm | 2900 | 100 | 2000 | Clickline MV frosted | - | 790lm | 2800 | 100 | 2000 |
| | | 75W | 230V | G9 | HALOPIN matt | - | 1050lm | 2900 | 100 | 2000 | Clickline MV frosted | - | 1050lm | 2800 | 100 | 2000 |
| | TC-D | | | | | | | | | | | | | | | |
| | | 13W | 230V | G24d-1 | DULUX D | - | 900lm | 2700 | 80 | 8000 | Master PL-C 2 Pin | - | 900lm | 2700 | 82 | 8000 |
| | | 13W | 230V | G24d-1 | DULUX D | - | 900lm | 3000 | 80 | 8000 | Master PL-C 2 Pin | - | 900lm | 3000 | 82 | 8000 |
| | | 13W | 230V | G24d-1 | DULUX D | - | 900lm | 4000 | 80 | 8000 | Master PL-C 2 Pin | - | 900lm | 4000 | 82 | 8000 |
| | | 13W | 230V | G24d-1 | | | | | | | Master PL-C 2 Pin | - | 900lm | 6500 | 80 | 8000 |
| | | 18W | 230V | G24d-2 | DULUX D | - | 1200lm | 2700 | 80 | 8000 | Master PL-C 2 Pin | - | 1200lm | 2700 | 82 | 8000 |
| | | 18W | 230V | G24d-2 | DULUX D | - | 1200lm | 3000 | 80 | 8000 | Master PL-C 2 Pin | - | 1200lm | 3000 | 82 | 8000 |
| | | 18W | 230V | G24d-2 | DULUX D | - | 1200lm | 4000 | 80 | 8000 | Master PL-C 2 Pin | - | 1200lm | 4000 | 82 | 8000 |
| | | 18W | 230V | G24d-2 | | | | | | | Master PL-C 2 Pin | - | 1200lm | 6500 | 80 | 8000 |
| | | 26W | 230V | G24d-3 | DULUX D | - | 1800lm | 2700 | 80 | 8000 | Master PL-C 2 Pin | - | 1800lm | 2700 | 82 | 8000 |
| | | 26W | 230V | G24d-3 | DULUX D | - | 1800lm | 3000 | 80 | 8000 | Master PL-C 2 Pin | - | 1800lm | 3000 | 82 | 8000 |
| | | 26W | 230V | G24d-3 | DULUX D | - | 1800lm | 4000 | 80 | 8000 | Master PL-C 2 Pin | - | 1800lm | 4000 | 82 | 8000 |
| | | 26W | 230V | G24d-3 | | | | | | | Master PL-C 2 Pin | - | 1800lm | 6500 | 80 | 8000 |
| | TC-DEL | | | | | | | | | | | | | | | |
| | | 10W | 230V | G24q-1 | DULUX D/E | - | 600lm | 2700 | 80 | 10000 | Master PL-C 4 Pin | - | 600lm | 2700 | 82 | 10000 |
| | | 10W | 230V | G24q-1 | DULUX D/E | - | 600lm | 3000 | 80 | 10000 | Master PL-C 4 Pin | - | 600lm | 3000 | 82 | 10000 |
| | | 10W | 230V | G24q-1 | DULUX D/E | - | 600lm | 4000 | 80 | 10000 | Master PL-C 4 Pin | - | 600lm | 4000 | 82 | 10000 |
| | | 13W | 230V | G24q-1 | DULUX D/E | - | 900lm | 2700 | 80 | 10000 | Master PL-C 4 Pin | - | 900lm | 2700 | 82 | 10000 |
| | | 13W | 230V | G24q-1 | DULUX D/E | - | 900lm | 3000 | 80 | 10000 | Master PL-C 4 Pin | - | 900lm | 3000 | 82 | 10000 |
| | | 13W | 230V | G24q-1 | DULUX D/E | - | 900lm | 4000 | 80 | 10000 | Master PL-C 4 Pin | - | 900lm | 4000 | 82 | 10000 |
| | | 18W | 230V | G24q-2 | DULUX D/E | - | 1200lm | 2700 | 80 | 10000 | Master PL-C 4 Pin | - | 1200lm | 2700 | 82 | 10000 |
| | | 18W | 230V | G24q-2 | DULUX D/E | - | 1200lm | 3000 | 80 | 10000 | Master PL-C 4 Pin | - | 1200lm | 3000 | 82 | 10000 |
| | | 18W | 230V | G24q-2 | DULUX D/E | - | 1200lm | 4000 | 80 | 10000 | Master PL-C 4 Pin | - | 1200lm | 4000 | 82 | 10000 |
| | | 26W | 230V | G24q-3 | DULUX D/E | - | 1800lm | 2700 | 80 | 10000 | Master PL-C 4 Pin | - | 1800lm | 2700 | 82 | 10000 |
| | | 26W | 230V | G24q-3 | DULUX D/E | - | 1800lm | 3000 | 80 | 10000 | Master PL-C 4 Pin | - | 1800lm | 3000 | 82 | 10000 |
| | | 26W | 230V | G24q-3 | DULUX D/E | - | 1800lm | 4000 | 80 | 10000 | Master PL-C 4 Pin | - | 1800lm | 3500 | 82 | 10000 |
| | | 26W | 230V | G24q-3 | | | | | | | Master PL-C 4 Pin | - | 1800lm | 4000 | 82 | 10000 |
| | | 26W | 230V | G24q-3 | | | | | | | Master PL-C 4 Pin | - | 1800lm | 6500 | 80 | 10000 |
| | TC-TEL | | | | | | | | | | | | | | | |
| | | 18W | 230V | GX24q-2 | DULUX T/E | - | 1200lm | 2700 | 80 | 10000 | Master PL-T 4Pin | - | 1200lm | 2700 | 82 | 10000 |
| | | 18W | 230V | GX24q-2 | DULUX T/E | - | 1200lm | 3000 | 80 | 10000 | Master PL-T 4Pin | - | 1200lm | 3000 | 82 | 10000 |
| | | 18W | 230V | GX24q-2 | DULUX T/E | - | 1200lm | 4000 | 80 | 10000 | Master PL-T 4Pin | - | 1200lm | 4000 | 82 | 10000 |
| | | 26W | 230V | GX24q-3 | DULUX T/E | - | 1800lm | 2700 | 80 | 10000 | Master PL-T 4Pin | - | 1800lm | 2700 | 82 | 10000 |
| | | 26W | 230V | GX24q-3 | DULUX T/E | - | 1800lm | 3000 | 80 | 10000 | Master PL-T 4Pin | - | 1800lm | 3000 | 82 | 10000 |
| | | 26W | 230V | GX24q-3 | DULUX T/E | - | 1800lm | 4000 | 80 | 10000 | Master PL-T 4Pin | - | 1800lm | 4000 | 82 | 10000 |
| | | 32W | 230V | GX24q-3 | DULUX T/E | - | 2400lm | 2700 | 80 | 10000 | Master PL-T 4Pin | - | 2400lm | 2700 | 82 | 10000 |
| | | 32W | 230V | GX24q-3 | DULUX T/E | - | 2400lm | 3000 | 80 | 10000 | Master PL-T 4Pin | - | 2400lm | 3000 | 82 | 10000 |
| | | 32W | 230V | GX24q-3 | DULUX T/E | - | 2400lm | 4000 | 80 | 10000 | Master PL-T 4Pin | - | 2400lm | 4000 | 82 | 10000 |
| | | 42W | 230V | GX24q-4 | DULUX T/E | - | 3200lm | 2700 | 80 | 10000 | Master PL-T 4Pin | - | 3200lm | 2700 | 82 | 10000 |
| | | 42W | 230V | GX24q-4 | DULUX T/E | - | 3200lm | 3000 | 80 | 10000 | Master PL-T 4Pin | - | 3200lm | 3000 | 82 | 10000 |
| | | 42W | 230V | GX24q-4 | DULUX T/E | - | 3200lm | 4000 | 80 | 10000 | Master PL-T 4Pin | - | 3200lm | 4000 | 82 | 10000 |
| | PL-H | | | | | | | | | | | | | | | |
| | | 60W | 230V | 2G8-1 | | | | | | | Master PL-H 4Pin | - | 4000lm | 3000 | 82 | 20000 |
| | | 60W | 230V | 2G8-1 | | | | | | | Master PL-H 4Pin | - | 4000lm | 4000 | 82 | 20000 |
| | | 85W | 230V | 2G8-1 | | | | | | | Master PL-H 4Pin | - | 6000lm | 3000 | 82 | 20000 |
| | | 85W | 230V | 2G8-1 | | | | | | | Master PL-H 4Pin | - | 6000lm | 4000 | 82 | 20000 |
| | | 120W | 230V | 2G8-1 | Osram Dulux 120w | - | 9000lm | 3000 | 80 | 20000 | Master PL-H 4Pin | - | 9000lm | 3000 | 82 | 20000 |
| | | 120W | 230V | 2G8-1 | Osram Dulux 120w | - | 9000lm | 4000 | 80 | 20000 | Master PL-H 4Pin | - | 9000lm | 4000 | 82 | 20000 |
| | TC-L | | | | | | | | | | PL-L/4P | | | | | |
| | | 18W | 230V | 2G11 | DULUX L | - | 1200lm | 2700 | 80 | 8000 | PL-L 90 De Luxe Pro | - | 950lm | 2700 | 90 | 16000 |
| | | 18W | 230V | 2G11 | DULUX L | - | 1200lm | 3000 | 80 | 8000 | PL-L 90 De Luxe Pro | - | 950lm | 4000 | 90 | 16000 |
| | | 18W | 230V | 2G11 | DULUX L | - | 1200lm | 4000 | 80 | 8000 | PL-L 90 De Luxe Pro | - | 950lm | 5300 | 90 | 16000 |
| | | 24W | 230V | 2G11 | DULUX L | - | 1800lm | 2700 | 80 | 8000 | | | | | | 16000 |
| | | 24W | 230V | 2G11 | DULUX L | - | 1800lm | 3000 | 80 | 8000 | Master PL-L Polar | - | 2900lm | 3000 | 82 | 16000 |
| | | 24W | 230V | 2G11 | DULUX L | - | 1800lm | 4000 | 80 | 8000 | Master PL-L Polar | - | 2900lm | 4000 | 82 | 16000 |
| | | 55W | 230V | 2G11 | DULUX L | - | 4800lm | 2700 | 80 | 10000 | | | | | | 16000 |
| | | 55W | 230V | 2G11 | DULUX L | - | 4800lm | 3000 | 80 | 10000 | Master PL-L Polar | - | 4800lm | 3000 | 82 | 16000 |
| | | 55W | 230V | 2G11 | DULUX L | - | 4800lm | 4000 | 80 | 10000 | Master PL-L Polar | - | 4800lm | 4000 | 82 | 16000 |
| | TC-F | | | | | | | | | | | | | | | |
| | | 24W | 230V | 2G10 | DULUX F | - | 1700lm | 2700 | 80 | | | | | | | |
| | | 24W | 230V | 2G10 | DULUX F | - | 1700lm | 3000 | 80 | | | | | | | |
| | | 24W | 230V | 2G10 | DULUX F | - | 1700lm | 3500 | 80 | | | | | | | |
| | T5 | | | | | | | | | | | | | | | |
| | | 24W | 230V | G5 | LUMILUX T5 HO High Output | - | 1750lm | 3000 | 80 | 16000 | | | | | | |
| | | 39W | 230V | G5 | LUMILUX T5 HO High Output | - | 3100lm | 4000 | 80 | 16000 | | | | | | |
| | | 54W | 230V | G5 | LUMILUX T5 HO High Output | - | 4450lm | 4000 | 80 | 16000 | | | | | | |
| | | 80W | 230V | G5 | LUMILUX T5 HO High Output | - | 6150lm | 4000 | 80 | 16000 | | | | | | |
| | | 39W | 230V | G5 | LUMILUX T5 HO High Output | - | 3100lm | 3000 | 80 | 16000 | | | | | | |
| | | 54W | 230V | G5 | LUMILUX T5 HO High Output | - | 4450lm | 3000 | 80 | 16000 | | | | | | |
| | | 80W | 230V | G5 | LUMILUX T5 HO High Output | - | 6150lm | 3000 | 80 | 16000 | | | | | | |

| Symbol | Abbreviation | wattage | voltage | Lamp holder | Osram | Half peak | luminous | Colour temp. | IRC | Average Life | Philips | Half peak | luminous | Colour temp. | IRC | Average Life |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | T16 | | | | | | | | | | TL5 | | | | | |
| | | 14W | 230V | G5 | T5 HE High Efficiency | - | 1200lm | 2700 | 80..89 | 24000 | Master TL5 HE Super | - | 1200lm | 2700 | 85 | 24000 |
| | | 14W | 230V | G5 | T5 HE High Efficiency | - | 1200lm | 3000 | 80..89 | 24000 | Master TL5 HE Super | - | 1200lm | 3000 | 85 | 24000 |
| | | 14W | 230V | G5 | | | | | | | Master TL5 HE Super | - | 1200lm | 3500 | 85 | 24000 |
| | | 14W | 230V | G5 | T5 HE High Efficiency | - | 1200lm | 4000 | 80..89 | 24000 | Master TL5 HE Super | - | 1200lm | 4000 | 85 | 24000 |
| | | 14W | 230V | G5 | T5 HE High Efficiency | - | 1200lm | 5400 | 80..89 | 24000 | Master TL5 HE Super | - | 1100lm | 5000 | 85 | 24000 |
| | | 14W | 230V | G5 | T5 HE High Efficiency | - | 1100lm | 6500 | 80..89 | 24000 | Master TL5 HE Super | - | 1100lm | 6500 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1750lm | 2700 | 80..89 | 24000 | Master TL5 HO Super | - | 1750lm | 2700 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1750lm | 3000 | 80..89 | 24000 | Master TL5 HO Super | - | 1750lm | 3000 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1750lm | 3500 | 80..89 | 24000 | Master TL5 HO Super | - | 1750lm | 3500 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1750lm | 4000 | 80..89 | 24000 | Master TL5 HO Super | - | 1750lm | 4000 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1600lm | 6500 | 80..89 | 24000 | Master TL5 HO Super | - | 1650lm | 5000 | 85 | 24000 |
| | | 24W | 230V | G5 | T5 HO High Output | - | 1550lm | 8000 | 80..89 | 24000 | Master TL5 HO Super | - | 1650lm | 6500 | 85 | 24000 |
| | | 39W | 230V | G5 | T5 HO High Output | - | 3100lm | 2700 | 80..89 | 24000 | Master TL5 HO Super | - | 3100lm | 2700 | 85 | 24000 |
| | | 39W | 230V | G5 | T5 HO High Output | - | 3100lm | 3000 | 80..89 | 24000 | Master TL5 HO Super | - | 3100lm | 3000 | 85 | 24000 |
| | | 39W | 230V | G5 | T5 HO High Output | - | 3100lm | 3500 | 80..89 | 24000 | Master TL5 HO Super | - | 3100lm | 3500 | 85 | 24000 |
| | | 39W | 230V | G5 | T5 HO High Output | - | 3100lm | 4000 | 80..89 | 24000 | Master TL5 HO Super | - | 3100lm | 4000 | 85 | 24000 |
| | | 39W | 230V | G5 | T5 HO High Output | - | 2850lm | 6500 | 80..89 | 24000 | | | | | | |
| | | 39W | 230V | G5 | T5 HO High Output | - | 2750lm | 8000 | 80..89 | 24000 | Master TL5 HO Super | - | 2950lm | 6500 | 85 | 24000 |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4450lm | 2700 | 80..89 | 24000 | Master TL5 HO Super | - | 4450lm | 2700 | 85 | 24000 |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4450lm | 3000 | 80..89 | 24000 | Master TL5 HO Super | - | 4450lm | 3000 | 85 | 24000 |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4450lm | 3500 | 80..89 | 24000 | Master TL5 HO Super | - | 4450lm | 3500 | 85 | 24000 |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4450lm | 4000 | 80..89 | 24000 | Master TL5 HO Super | - | 4450lm | 4000 | 85 | 24000 |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4050lm | 6500 | 80..89 | 24000 | | | | | | |
| | | 54W | 230V | G5 | T5 HO High Output | - | 4000lm | 8000 | 80..89 | 24000 | Master TL5 HO Super | - | 4450lm | 6500 | 85 | 24000 |
| | T16-R | | | | | | | | | | | | | | | |
| | | 22W | 230V | 2GX13 | T5 FC | - | 1800lm | 2700 | 80..89 | 24000 | TL5 Circular Super 80 | - | 1800lm | 2700 | 85 | 24000 |
| | | 22W | 230V | 2GX13 | T5 FC | - | 1800lm | 3000 | 80..89 | 24000 | TL5 Circular Super 80 | - | 1800lm | 3000 | 85 | 24000 |
| | | 22W | 230V | 2GX13 | T5 FC | - | 1800lm | 4000 | 80..89 | 24000 | TL5 Circular Super 80 | - | 1800lm | 4000 | 85 | 24000 |
| | | 22W | 230V | 2GX13 | T5 FC | - | 1710lm | 6500 | 80..89 | 24000 | | | | | | |
| | | 40W | 230V | 2GX13 | T5 FC | - | 3200lm | 2700 | 80..89 | 24000 | TL5 Circular Super 80 | - | 3300lm | 2700 | 85 | 24000 |
| | | 40W | 230V | 2GX13 | T5 FC | - | 3200lm | 3000 | 80..89 | 24000 | TL5 Circular Super 80 | - | 3300lm | 3000 | 85 | 24000 |
| | | 40W | 230V | 2GX13 | T5 FC | - | 3200lm | 4000 | 80..89 | 24000 | TL5 Circular Super 80 | - | 3300lm | 4000 | 85 | 24000 |
| | | 40W | 230V | 2GX13 | T5 FC | - | 3000lm | 6500 | 80..89 | 24000 | | | | | | |
| | HIPAR111 | | | | | | | | | | | | | | | |
| | | 20W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 10º | 17000cd | 3000 | 80 | 20000 | | | | | | |
| | | 20W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 24º | 4200cd | 3000 | 80 | 20000 | | | | | | |
| | | 20W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 40º | 2000cd | 3000 | 80 | 20000 | | | | | | |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 10º | 35000cd | 4200 | 90 | 20000 | | | | | | |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 24º | 8500cd | 4200 | 90 | 20000 | | | | | | |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 40º | 4000cd | 4200 | 90 | 20000 | | | | | | |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 10º | 35000cd | 3000 | 80 | 20000 | Master Colour CDM-R111 | 10º | 35000cd | 3000 | 81 | 20000 |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 24º | 8500cd | 3000 | 80 | 20000 | Master Colour CDM-R112 | 24º | 8500cd | 3000 | 81 | 20000 |
| | | 35W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 40º | 4000cd | 3000 | 80 | 20000 | Master Colour CDM-R113 | 40º | 4000cd | 3000 | 81 | 20000 |
| | | 70W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 10º | 55000cd | 3000 | 80 | 20000 | Master Colour CDM-R114 | 10º | 50000cd | 3000 | 84 | 20000 |
| | | 70W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 24º | 15000cd | 3000 | 80 | 20000 | Master Colour CDM-R115 | 24º | 15000cd | 3000 | 84 | 20000 |
| | | 70W | 230V/5kV | GX 8,5 | Powerball HCI-R111 | 40º | 9000cd | 3000 | 80 | 20000 | Master Colour CDM-R116 | 40º | 9000cd | 3000 | 84 | 20000 |
| | HIT-DE | | | | | | | | | | | | | | | |
| | | 70W | 230V/5kV | RX7s | Powerball HCI-TS | - | 6900lm | 3000 | 80 | 9000 | | | | | | |
| | | 70W | 230V/5kV | RX7s | Powerball HCI-TS | - | 6700lm | 4200 | 90 | 9000 | MHN-TD Pro | - | 5700lm | 4200 | 80 | 9000 |
| | | 150W | 230V/5kV | RX7s-24 | Powerball HCI-TS | - | 14800lm | 3000 | 80 | 9000 | | | | | | |
| | | 150W | 230V/5kV | RX7s-24 | Powerball HCI-TS | - | 14200lm | 4200 | 90 | 9000 | MHN-TD Pro | - | 12900lm | 4200 | 80 | 9000 |
| | HIT-T | | | | | | | | | | | | | | | |
| | | 35W | 230V | G12 | Powerball HCI-T | - | 3400lm | 3000 | 80 | 12000 | Master Colour CDM-T | - | 3300lm | 3000 | 81 | 12000 |
| | | 35W | 230V | G12 | Powerball HCI-T | - | 3300lm | 4200 | 90 | 12000 | | | | | | |
| | | 70W | 230V | G12 | Powerball HCI-T | - | 7000lm | 3000 | 80 | 12000 | Master Colour CDM-T | - | 6600lm | 3000 | 81 | 12000 |
| | | 70W | 230V | G12 | Powerball HCI-T | - | 6700lm | 4200 | 90 | 12000 | Master Colour CDM-T | - | 6600lm | 4200 | 92 | 12000 |
| | | 100W | 230V | G12 | Powerball HCI-T | - | 9500lm | 3000 | 80 | 12000 | | | | | | |
| | | 100W | 230V | G12 | Powerball HCI-T | - | 9500lm | 4200 | 90 | 12000 | | | | | | |
| | | 150W | 230V | G12 | Powerball HCI-T | - | 15500lm | 3000 | 80 | 12000 | Master Colour CDM-T | - | 14000lm | 3000 | 85 | 12000 |
| | | 150W | 230V | G12 | Powerball HCI-T | - | 14500lm | 4200 | 90 | 12000 | Master Colour CDM-T | - | 12700lm | 4200 | 96 | 12000 |
| | HIT-TC | | | | | | | | | | | | | | | |
| | | 20W | 230V/5kV | G 8.5 | Powerball HCI-TC | - | 1700lm | 3000 | 80 | 6000 | | | | | | |
| | | 35W | 230V/5kV | G 8.5 | Powerball HCI-TC | - | 3400lm | 3000 | 80 | 6000 | | | | | | |
| | | 35W | 230V/5kV | G 8.5 | Powerball HCI-TC | - | 3200lm | 4200 | 90 | 6000 | Master Colour CDM-TC | - | 3300lm | 3000 | 81 | 6000 |
| | | 70W | 230V/5kV | G 8.5 | Powerball HCI-TC | - | 6900lm | 3000 | 80 | 6000 | Master Colour CDM-TC | - | 6400lm | 3000 | 83 | 6000 |
| | | 70W | 230V/5kV | G 8.5 | Powerball HCI-TC | - | 6900lm | 4200 | 90 | 6000 | | | | | | |
| | CDM-Tm | | | | | | | | | | CDM-Tm | | | | | |
| | | 20W | 230V/1,5kV | PGJ 5 | | | | | | | | - | 1650lm | | | |
| | | 35W | 230V/1,5kV | PGJ 5 | | | | | | | | - | 3000lm | | | |

# Símbolos / *Symbols / Symboles / Symbole*

**Aplicación / *Application target / Application / Anwendung***

Downlight
Downlight
Downlight
Downlight

Up light
Up light
Up light
Uplight

Pasillo
Corridor
Corridor
Flur

Escalera
Stair
Escaliers
Treppen

Seguridad personal
Personal security
Lumière desécurité personnel
Sicherheit Licht

Bañador pared
Wall washer
Projecteur mur
Wandfluter

Display / acento
Display / accent
Display / Accent
Akzentbeleuchtung

Fachada
Facade
Façade
Fassade

Cornisa
Cove lighting
Corniche
Lichtvoute

**Instalación / *Instalation / Installation / Installation***

3C

Carril trifásico
3-circuit track
Rail triphasé
3-Phasen-Schiene

Empotrable pared
Wall recessed
Encastré de mur
Wandeinbauleuchte

Empotrable techo
Ceiling recessed
Encastré de plafond
Deckeneinbauleuchte

Empotrable suelo
Floor recessed
Encastré de sol
Bodeneinbauleuchte

Adosable techo
Surface mounted
Monté sur plafond
An der Decke

Adosable pared
Wall mounted
Monté sur mur
An der Wand montiente Leuchte

Suspensión
Suspended
Suspension
Hängelampe

Clase I
Class I
Classe I
Klasse I

Clase II
Class II
Classe II
Klasse II

Clase III
Class III
Classe IIII
Klasse III

F

Instalable sobre una superficie normalmente inflamable
Suitable for installation on normally inflammable surfaces
Convient aux installations sur des surfaces normalement inflammables
Kann auf brennbare Oberflächen installiert werden

F

No instalable sobre una superficie normalmente inflamable
Unsuitable for installation on normally inflammable surfaces
Ne pas installer sur des surfaces normalement inflammable
Darf nicht auf brennbaren Oberflächen installiet werden

IP xx

Sistema de codificación (ver pág. 8)
A coding system (see page 8)
Système de codification (voir page 8)
Dieses Codierungssystem (siehe seite 8)

IK09

Sistema de codificación para indicar el grado de protrección proporcionado por una envolvente contra los impactos mecánicos nocivos. Energía de impacto (Jules) **IK09: 10J**
It is a coding system that shows the level of protection that a casing provides against damaging mechanical impacts. Energy of impact (Jules) **IK09: 10J**
Système de codification permettant d'indiquer le degré de protection procuré par une enveloppe contre les impacts mécaniques nuisibles.
Energie d'impact ( en Joules)**IK09: 10J**
Dieses Codierungssystem dient zur Angabe des Schutzgrades, der mit einer besonderen Verkleidung zum Schutz gegen schädliche mechanische Einflüsse erreicht wird.
Schlagenergie (Joule)**IK09: 10J**

## DALI / PUSH PULL

Reactancia regulable por sistema DALI (Digital Adressable Lighting Interface) o por sistema PUSH-PULL (mediante señal digital controlada por pulsador).
Digital dimming ballast by DALI protocol (Digital Adressable Lighting Interface) or by PUSH-PULL system (digital signal controlled by a push button).
Réactance réglable par système DALI (Digital Adressable Lighting Interface) ou par système PUSH-PULL (au moyen d'un signal numérique contrôlé par bouton poussoir).
Blindwiderstand regulierbar mittels DALI (Digital Adressable Lighting Interface) oder mittels PUSH-PULL (per Drücktaste gesteuertes Digitalsignal).

## regul./dimm. 1...10 V :

Reactancia de regulación analógica por potenciómetro de 1 a 10 voltios.
Analogic dimming ballast by 1 to 10 volts potentiometer.
Réactance à réglage analogique par potentiomètre de 1 à 10 volts.
Blindwiderstand durch Potentiometer analog von 1 bis 10 V regulierbar.

Empotrable para paso de vehículos hasta 2.500 Kg.y velocidad 20 Km/h
Built-in lamp vehicle resistant up to 2,500 Kg. and speed 20 Km/h
Encastré pour pas des voitures jusqu'à 2.500 Kg. et vitesse 20 Km/h
Geeignet zum Einbau von Durchfahrten für Fahrzeuge mit einem Gewicht bis zu 2,500 kg und einer Geschwindigkeit von 20km/h

Empotrable para zona peatonal
Downlight for pedestrian crossing
Encastré pour zone pietonnière
Einbauleuchte für Fussgängerübergang

Peso
Weight
Poids
Gewicht

180°

Rotación de 180° alrededor del plano horizontal.
Adjustable 180° on the horizontal axis.
Rotation de 180° autour du plan horizontal.
Drehung von 180° um waagerechter Ebene

Fabricado según las normas de seguridad y electromagnetismo de Europa
Manufactured according to the set safety and electromagnetism standards of Europe
Fabriqué selon les normes de sécurité électromagnétiques européennes
Hergestellt, gemäß den europäischen Sicherheitsnormen und Vorschriften für Elektromagnetismus

Distancia mínima entre el foco de la luminaria y el objeto iluminado.
Minimum distance to be left between the focus of the lighting fixture and the lightened object.
La distance minimum pour être gauche entre le foyer de l'accessoire d'éclairage et l'object allumé.
Mindestabstand zwischen dem Scheinwerfer der Leuchte und dem beleuchteten Gegenstand.

Corte de empotramiento.
Hole dimensions for recessing.
Coupe d'encastrement.
Einbauschnitt

Diámetro de empotramiento.
Hole diameter for recessing.
Diamètre d'encastrement.
Einbaudurchmesser

included

Caja para empotrar de tecnopolímero incluida
Recessed technopolymer box included
Boite à encastrer en technopolymère incluse
Technopolimer Einbaubox inklusive

RF 850º

Resistente a hilo incandescente a 850º
Resistance to incandescent wire at 850º
Résistance a filament incandescent à 850º
Glühdrahtbeständig auf 850º

.IES

Plug-in disponible en Dialux
Pug-in available in Dialux
Plug-in disponible en Dialux
Plug-in verfügbar in Dialux

Xm
xxxx+xxxx

Nº de metros máx. de conexión en serie
Max. no. of metres in serial connection
Longueur max. (en mètres) de raccordement en série
Max. Länge in Metern bei Reihenanschluss

Mando a distancia por radiofrecuencia
Remote control
Commande à distance par radiofreqûence
Hochfrequenz-Fernbedienung

Interior
Indoor
Intérieur
Innen

Exterior
Outdoor
Extérieur
Außen

30"

Tiempo de duración de iluminación: 30 segundos
Movement sensor last 30 seconds.
Durée de l'éclairage : 30 secondes
Beleuchtungsdauer: 30 Sekunde

3m

Distancia de detección : 3 metros
Detection dinstance : 3 meters
Distance de detection: 3 mètres
Sensor-Abstand: 3 Meter

pag.XX

Guía de instalación
Installation guide
Guide d'installation
Einbauanleitung

1,4 m

x metros de cable
x meters of cable
x metre de câble
x Meter langes Kabel

20º 20º

Rotación 20º
Adjustable 20º
Inclinaison 20º
Einstellbar 20º

x

Canales
Channels
Canales
Kanäle

Estaca de plástico incluida
Plastic spike included
Piquet en plastique inclus
Kunstoff Pfhal inklusive

Elect. inc — Equipo electrónico incluido.
Electronic gear included.
Équipement électronique compris.
Elektronikgerät mitgeliefert.

Mag. inc — Equipo magnético incluido.
Magnetic gear included.
Équipement magnétique compris.
Magnetgerät mitgeliefert.

Not inc — Equipo no incluido.
Gear not included
Équipement non compris.
Gerät nicht mitgeliefert.

60W ø45 — E-27 Max. 60W esf. ø45
E-27 Max. 60W esf. ø45
E-27 Max. 60W esf. ø45
E-27 Max. 60W esf. ø45

included driver — Driver incluido
Driver included
Driver inclus
Treiber inklusiv

not incl. driver — Driver no incluido
Driver not included
Driver non inclus
Treiber nicht inklusiv

3 years — Garantía 3 años
3 years guarantee
Garantie 3 ans
3 Jahre Garantie

15W — PL Elec. E-27 Max. 15W
PL Elec. E-27 Max. 15W
PL Elec. E-27 Max. 15W
PL Elec. E-27 Max. 15W

X — Posibilidad de cortar cada x leds
Option to cut every x leds.
Mètres de connexion continue
Möglichkeit zu schneiden je x LED

Drenaje
Drainage.
Drainage.
Drânage

Modelo Registrado
Registered moldels
Modèles enregistrés
Eingetragene Modelle

SOLAR

±40° — Orientable ±40° alrededor de los dos ejes que forman el plano horizontal.
Adjustable ±40° around the 2 axis forming the horizontal plane.
Orientable de ±40° autour des deux axes qui forment le plan horizontal.
Ausrichtung um ± 40° entlang der beiden Achsen der waagerechten Ebene

90° — Ajustable de 0° a 90° en relación al plano horizontal.
Adjustable from 0° to 90° on the horizontal axis.
Réglable de 0° à 90° par rapport au plan horizontal.
Ausrichtung von 0° bis 90° zu waagerechter Ebene

±XX° — Rotación en el plano horizontal de ±XX°.
Adjustable ±XX° on the horizontal axis.
Rotation de ±XX° sur le plan horizontal.
Drehung um waagerechte Ebene um ± XX°

XX° — Rotación de XX° alrededor del plano vertical.
Adjustable from 0° to XX° on the vertical axis.
Rotation de XX° autour du plan vertical.
Drehung von XX° um senkrechte Ebene

11 — 11 cambios de color
11- changing colorus.
11 changements de couleur
11 Farben

X A — Amperios
Amperes
Ampères
Ampere

XXW — Watios
Watts
Watts
Watt

Dimming — Dimable
Dimming
Dimmable
Dimmbar

X VDC — Corriente continua
Direct current
Courant continu
Gleichstrom

265V AC / 230V AC — Corriente alterna
Altern current
Courant alternatif
Altern Strom

350mA 500mA 700mA — Intensidad de corriente necesaria para conseguir los vatios deseados .
Necessary current intensity needed to obtain the wished light watts.
Intensidad de corriente necesaria para conseguir los vatios deseados .
Necessary current intensity needed to obtain the wished light watts.

Dirección del halo de luz.
Halo light direction.
Direction du faisceau lumineux.
Lichtstrom in Richtung

equivalente a brighter as XX W — Equivalente a
Brighter as
Eclaire comme
Heller wie

XX° 120° XX° — Ángulo de la ópticas.
Lents angle.
Ângulo de la ópticas.
Lents angle.

Luz orientable.
Directional light.
lampe orientable.
Ausrichtbares licht.

OSRAM Led / CREE Led / POWER Led / Nichia Led — Marca
Led brands
Marque
Led Marke

XX Lm/watt — Lumens/watios
Lumens/Watts
lumens/watt.
Lumen/Watt.

Fotometría
Photometric Data

RGB — Luz RGB
RGB light
Lumière RGB
RGB Licht

Blue — Luz azul
Blue light
Lumière blue
Blaues Licht

Cold W 6000K — Luz fría
Cold light
Lumière froide
Tageslichtweißes Licht

Natural W 4500K — Luz natural
Natural light
Lumière naturale
Neutralweißes Licht

Warm W 2900K — Luz cálida
Warm light
Lumière chaude
Warmweißes Licht

4 filtros de colores incorporados.
4 color filters included
4 filtres de coleurs inclus.
4 Farbfilter inklusive.

## Acabados / *Finishes / Finitions / Ausführungen*

- 05 Negro / Black
  Noir / Schwarz
- 54 Aluminio anodizado
  Anodized aluminium
  Aluminium anodisé
  Eloxiertes Aluminium
- J2 Anodizado plata
  Anodized silver
  Argent anodisé
  Silber eloxiert
- M3 Cristal extra blanco
  Glass extra white
  Verre extra blanc
  Glas extra weiss
- S2 Aluminio cepillado
  Brushed aluminium
  Aluminium brossé
  Aluminium gebrüstet
- 14 Blanco / White
  Blanc / Weiß
- B9 Cristal arenado
  Matt tempered glass
  Verre sablé
  Matt tempered glass
- M2 PMMA / PMMA
  PMMA / PMMA
- N3 Gris / Grey
  Gris / Grau

## Materiales / *Materials / Matériaux / Materialen*

ALU — Aluminio.
Aluminum
Aluminium
Aluminium

GLASS — Cristal
Glass
Verre
Glas

GLASS EXTRA WHITE — Cristal extra blanco
Glass extra white
Verre extra blanc
Glas extra weiss

PLAS TIC — Plástico
Plastic
Plástico
Plastic

PMMA — PMMA
PMMA
PMMA
PMMA

UVA GLASS — Cristal UVA
UVA glass
Verre UVA
UVA Glas

UVA PMMA — UVA PMMA
UVA PMMA
UVA PMMA
UVA PMMA

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Los artículos especiales, a fabricar previa demanda, son variaciones de los artículos estándar, hecho que puede implicar la supresión de las marcas de aprobación y del número de tipo. En cualquier caso, se fabrican bajo cumplimiento de las directivas comunitarias aplicables y siguen un estricto control de calidad avalado por la certificación ISO 9001 y por la ISO 14001, que ratifica la garantía del sistema de gestión ambiental de LEDS-C4

En las luminarias en las que no se incluye el transformador o equipo de funcionamiento necesario, si éste no se solicita y suministra junto con la luminaria, ésta no estará sometida a la "Directiva de Compatibilidad Electromagnética (EMC)" y la responsabilidad final en cuanto a su cumplimiento recae en el instalador.
A menos que se especifique lo contrario, las lámparas no se suministran junto con la luminaria.

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All luminaires comply with the European norms and have the CE mark.

All derived and special luminaires are variations of the standard ones which might implicate the suppression of the approval marks. In any case, they are manufactured in accordance with applicable EU community directives. They follow a strict quality control process that has been certified by ISO 9001 and ISO 14001, which attests to the LEDS-C4's environmental management system.

The necessary transformer or switchgear is not included with the luminaries, unless it has been requested and supplied with the luminary. The luminary will not be subject to the "Electromagnetic Compatibility (EMC) directive" and ultimate responsibility as regards compliance lies with the fitter.

Unless specified otherwise, lamps are not included with the luminaires.

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## OUTDOOR

Luminarias diseñadas para la máxima resistencia a las condiciones ambientales, con una amplia oferta que incluye desde el estilo contemporáneo y moderno hasta diseños más clásicos.

Luminaires specially designed for the maximum resistance to environmental conditions with a wide range including both contemporary and classical models.

## LA CREU

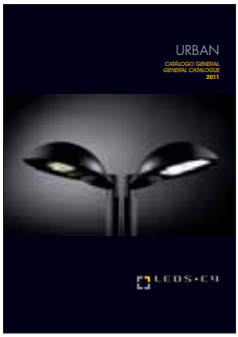
Luminarias decorativas con una excelente relación calidad-precio, de todos los estilos: moderno, clásico, tradicional y rústico... aptas para distintas aplicaciones: dormitorios, salones, baños, zonas públicas.

Decorative luminaires with an excellent price-quality ratio in all styles: modern, classical, traditional and rustic and suitable for different applications: bedrooms, living rooms, bathrooms and public areas.

## GROK

Pura esencia contemporánea: luminarias que resultan obras de arte en sí mismas.
Productos que conjugan a la perfección los conceptos de diseño, calidad e innovación.

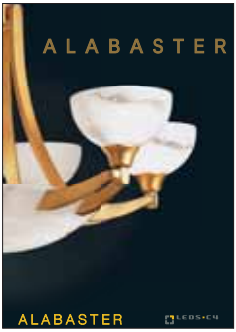
Pure contemporary essence: luminaires which are works of art per se.
Products which perfectly combine, design, quality and innovation.




## URBAN

Luminarias para alumbrado urbano, tanto de zonas residenciales como de alumbrado vial, con distintas soluciones pensadas para favorecer el ahorro energético y la anticontaminación lumínica.

Luminaires for urban lighting both in residential areas as well as road lighting, with specific solutions designed to promote energy saving and anti-light pollution.




## ALABASTER

Luminarias en alabastro tanto de estilo barroco como de estilo contemporáneo. Y aplicaciones lumínico-arquitectónicas (paneles, cornisas y espejos) en alabastro para los ambientes más sofisticados.

Alabaster luminaires both in baroque and contemporary style. And light-architectonic applications (panels, cornices and mirrors) made of alabaster for more sophisticated environments.

## VENTILACIÓN
## CEILING FANS

Cuidada selección de ventiladores con opciones para todos los estilos decorativos. Modelos silenciosos y con las más altas prestaciones, que favorecen el ahorro energético.

Careful selection of fans with options for all decorative styles. Silent models with the highest performance, which promote energy saving.

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