



TECHNICAL AND ARCHITECTURAL LIGHTING

ILUMINACIÓN TÉCNICA
Y ARQUITECTÓNICA



NormaGrup
Technology

Technology based on experience
Tecnología por experiencia



We are experts in technology. And we are so based on our own **experience**.

What we know and what we do is the result of more than 40 years of work focused towards the search in our products of an **excellence** that makes us win the **confidence** of our customers.

Also, we have been guided by the same values: a willingness for the constant **learning** and and a **growth** eagerness always in **balance** with our **responsibility** as a **friendly** company, where all the processes (design, production, quality) are focused on the customer.

This is the basis on which we continue to grow.

NormaGrup Technology has been born to integrate the Corporate diversity of our production, aiming to offer even more expert solutions for the specific needs of our Customers. NormaGrup's structure includes five divisions: **NormaLux**, emergency lighting, **NormaDet**, fire detection systems, **NormaLit**, technical and architectural lighting, **NorClinic**, technical systems for hospitals, and **EcoLight**, emergency lighting.

NormaGrup Technology, present and future solutions.

Somos expertos en tecnología. Y lo somos por **experiencia**.

Lo que sabemos y hacemos es el fruto de más de 40 años de trabajo orientado por un mismo fin: la búsqueda en nuestros productos de una **excelencia** que nos gane la **confianza** de nuestros clientes.

También nos han guiado unos mismos valores: una disposición al **aprendizaje** constante y un afán de crecimiento que guarde siempre **equilibrio** con nuestra **responsabilidad** como una empresa **amigable** en la que todos los procesos (diseño, producción, calidad,...) están orientados al cliente.

Sobre ese suelo, seguimos creciendo.

NormaGrup Technology nace para integrar la diversidad empresarial de nuestra producción con el objetivo de ofrecer a nuestros clientes soluciones aún más expertas a sus necesidades concretas. Bajo su estructura se agrupan cinco divisiones: **NormaLux**, alumbrado de emergencia, **NormaDet**, sistemas de detección de incendios, **NormaLit**, sistemas de iluminación técnica y arquitectural, **NorClinic**, sistemas técnicos hospitalarios y **EcoLight**, iluminación de emergencia.

NormaGrup Technology, soluciones presentes y futuras

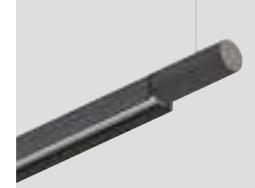


NormaGrup
Technology

NormaLux
NormaDet
NormaLit
NorClinic
EcoLight

Index Indice

**NEW
NOVEDAD**

Eclipse	18	Area	19	U-Line	20	Blok	21
							

**CATALOGUE
CATÁLOGO**

Elit	32	Elit Max	36	Elit Mini	40
Downlights					

Elit Micro	42	Elit S	44	Nahika	48	Nahika Q	50	Nahika Mini	52
					<small>NEW NOVEDAD</small>	<small>2500 LUMEN</small>		<small>NEW NOVEDAD</small>	<small>5000 LUMEN LED FOOD</small>

Nahika Micro	54	Nahika Micro Q	55	Hat	62	Hat Q	63	Hat Mini	64
									

Hat Mini Q	65	Hat S	66	Tiny	69	Dorfin	72	Dorfin Q	74
			<small>NEW</small>		<small>NEW</small>		<small>NEW</small>		<small>NEW</small>

Ojio	80	Ojio Led	82	Cyre	86	Pendulares	92	Pagoda	97
			<small>NEW</small>		<small>NEW NOVEDAD</small>		<small>5000 LUMEN LED FOOD</small>		<small>NEW NOVEDAD LED FOOD</small>

Ambient light Ambiente	Til 100	Passo 101	Projectors Proyectores	Prolit 108
				
Rail 111	Linnea 118	Trazzo 50 124	Trazzo 70 128	
				
				
Trazzo Mixto 140	Trazzo Mural 146	Cosmos 150	Contelux 155	Sycom 160
				
				
Essentia 166	Coral 170	Zafiro 173	Nassel 180	
				
			Fittings Pantallas	
Nassel S 182	Luzerna 185	Industrial	Hermetic Line 189	Hermetic XL 191
				
				

Our technology

Tecnología propia



In an increasingly demanding environment we rely on our technology in our quest for perpetual improvement. We formed a team of highly motivated and skilled professionals who guide us to constantly improve, control and diversify our production processes.

We have designed our own production plant based on the experience acquired over the years. Optimizing our production to minimize lead-times and maximizing the quality.

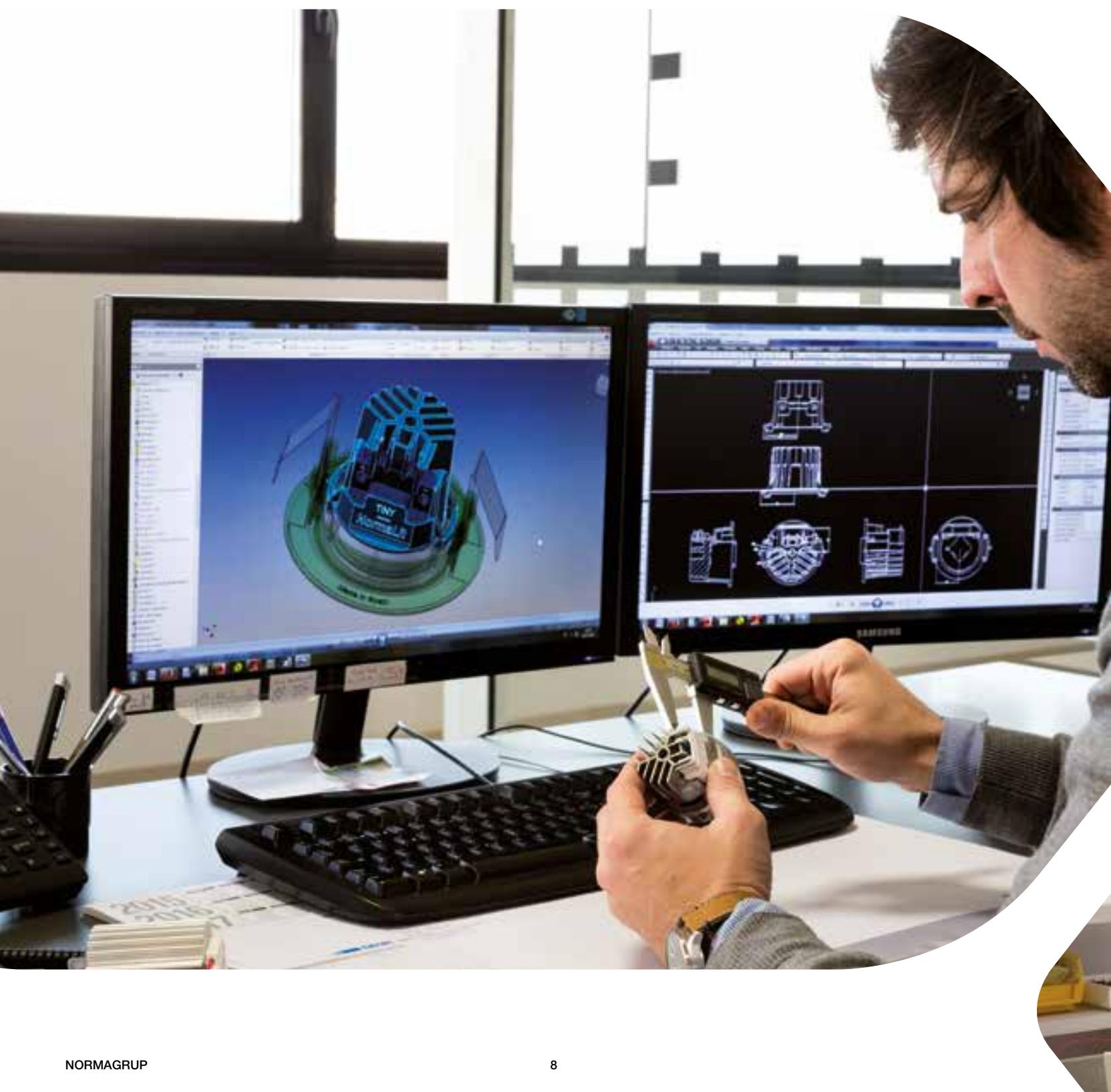
En NormaGrup, la excelencia no es un punto de llegada. Es un horizonte que nunca hay que perder de vista. La aspiración a un equilibrio cada vez más perfecto entre diversas virtudes –eficiencia, calidad, seguridad, confianza– que es preciso evaluar a cada paso: desde el diseño hasta la atención postventa.

Hemos desarrollado internamente nuestra propia planta productiva en base a la experiencia adquirida durante todos estos años. Esto nos ha permitido optimizar la producción reduciendo los tiempos y maximizando la calidad de nuestros productos.



Internal areas of development

Áreas internas de desarrollo





DALI BUS Tester
Testeador BUS DALI



Ulbricht Sphere
Esfera de Ulbricht



R&D Department
Departamento de I+D+i

Our R&D department is responsible for all electronic designs, providing us with solutions to meet the market's high demands, resulting in technically and functionally optimized products.

Nuestro departamento de I+D+i realiza todo el proceso de desarrollo electrónico encontrando soluciones propias ante las necesidades del mercado. El resultado son productos de alta calidad técnicas optimizando al 100% sus funcionalidades.



Design Department
Departamento de diseño

All of our designs are proprietary designs. Through the synergy with the other departments in the company we are able to reach technically efficient solutions while maintaining the state of the art designs.

Realizamos íntegramente los diseños de todos nuestros productos creando sinergias con el resto de departamentos. Esto nos permite encontrar soluciones eficientes técnicamente manteniendo una estética vanguardista.



Tooling Department
Departamento de Mecanizado

Our Tooling Department works jointly with the Design Department, finding the best needs to the aesthetic demands.

Nuestro departamento de mecanizado trabaja conjuntamente con el departamento de diseño, encontrando soluciones adecuadas ante las necesidades estéticas.





Goniophotometer
Goniofotómetro

Laboratories

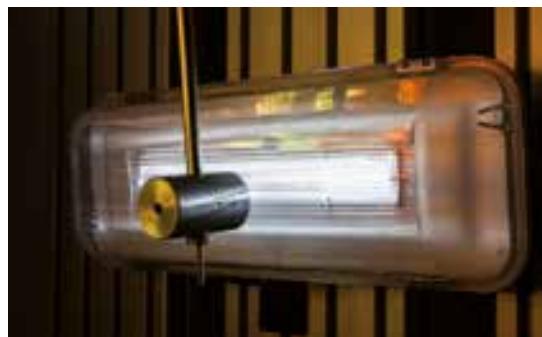
Laboratorios

Goniophotometer: Optical device that reads the spectrum of light in order to obtain the photometrical curve. Having our own photogoniometre makes it possible for us to optimize the efficiency of our luminaires.

IP Rating: Room adapted to make the IP rating of liquids of any significant figure, from IPX1 to IPX7.

Dust proof rating chamber: In this chamber we can test how dust proof the fittings are resulting in a rating : IP5X test to check if the fittings with this degree of tightness are protected against dust penetration.

Impact hammer: With this hammer it is possible to make an IK impact test on grades 1 to 10.



Impact hammer
Martillo de impacto

Temperature chamber: In this chamber it is possible to test at different temperatures and humidity degrees. The ranges vary from -20 degrees Celsius to 150 degrees Celsius and from 10% to 98% humidity.

Glow wire machine: With this machine it is possible to check if a plastic is self-extinguishable, applying a 850°C temperature to the sample.

Smoke and heat tunnel: With this machine it is possible to simulate and assess the operation of a smoke detector in an atmosphere with smoke.

Ulbricht Sphere: This sphere integrates the measurement of one luxometre in order to measure the luminous flux of a luminaire.

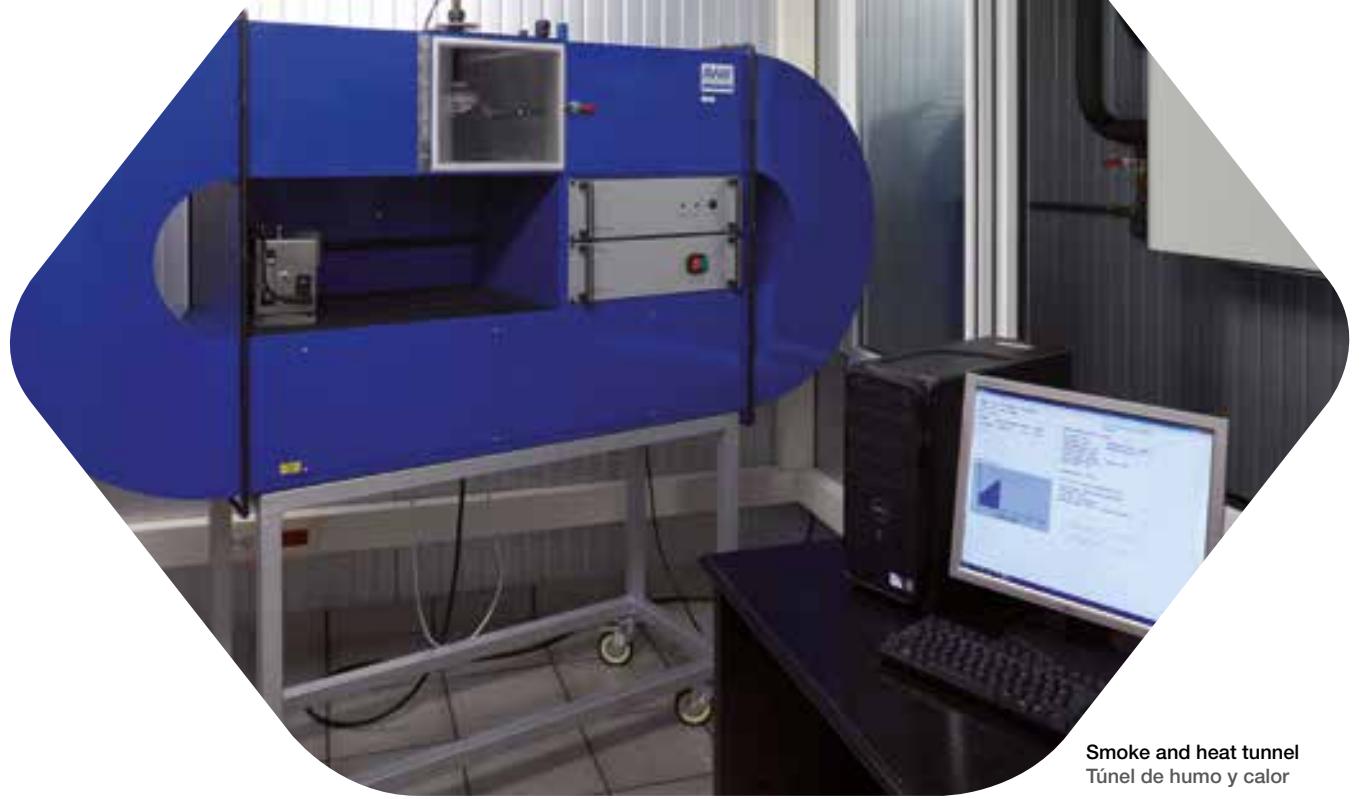
3D Printer: With this machine it is possible to make prototypes of any component in a luminaire based on a 3D Design.

DALI BUS Tester: It checks that a fitting has been manufactured according to the DALI protocol.

Electromagnetic spectrum Tester: With this machine it is possible to check the levels of electromagnetic interferences through a fitting.

Spectroradiometer: Is used to measure the spectral Power distribution of a light source (radiometric, photometric and colorimetric quantities of light), this system works in conjunction with a Goniophotometer.

Spectrometer: Performs a spectral analysis on light, which is emitted by Leds, for measurements of Color temperature and wave lengths.



Glow wire machine
Máquina de hilo incandescente



IP room for liquids
Sala para IP de líquidos

Goniofotómetro: Dispositivo óptico que realiza lecturas del espectro de luz para obtener la curva fotométrica. Disponer de nuestro propio fotogoniómetro nos permite optimizar al máximo la eficiencia de nuestras luminarias.

Sala para IP de líquidos: Sala adaptada para realizar las pruebas IP de líquidos de cualquier cifra significativa, desde IPX1 a IPX7.

Cámara de estanqueidad para polvo: Con esta cámara podemos hacer un test de IP5X, para comprobar que los equipos con este grado de estanqueidad están protegidos contra la penetración de polvo.

Martillo de impacto: Con este aparato podemos hacer un test de impacto IK desde los grados 1 a 10.

Cámara climática: Esta cámara permite hacer pruebas a diferentes temperaturas y grados de humedad. Los rangos oscilan de -20°C a 150°C en temperatura y entre el 10% y el 98% de humedad.

Máquina de hilo incandescente: Con esta máquina podemos comprobar si un plástico es autoextinguible, aplicando a la muestra una temperatura de 850°C.

Túnel de humo y calor: Con esta máquina se puede simular y analizar el funcionamiento de un detector de incendios en un ambiente con presencia de humo.

Esfera de Ulbricht: Esta esfera integra la medida de un luxómetro para poder medir el flujo luminoso de una luminaria.

Impresora 3D: Esta máquina permite hacer prototipos de cualquier componente de una luminaria a partir de un diseño en 3D.

Testeador BUS DALI: Comprueba que un equipo está fabricado acorde al protocolo DALI.

Analizador de espectros electromagnéticos: Con este aparato podemos comprobar los niveles de Interferencias Electromagnéticas Conducidas en un equipo.

Espectroradiómetro: Se utiliza para medir la distribución de potencia espectral de una fuente de luz (unidades radiométricas, fotométricas y colorimétricas de la luz), este sistema funciona en conjunto con un Goniofotómetro.

Espectrómetro: De alta precisión para la determinación del Color y la Calidad de las fuentes de luz Led, comprueba el espectro de los colores y la temperatura de color.

NormaGrup Technology's premises
in Parque Tecnológico de Asturias

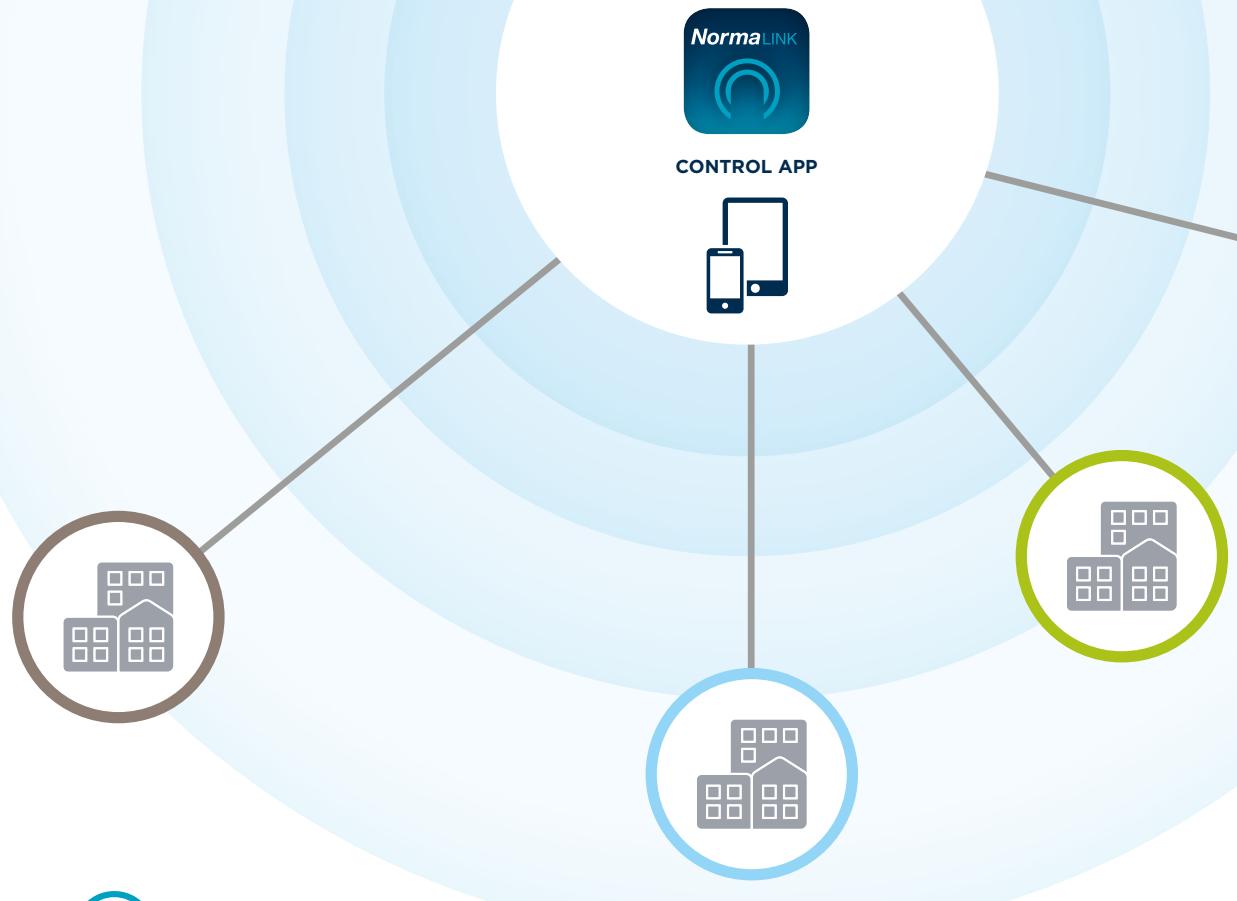
Instalaciones de NormaGrup Technology
en el Parque Tecnológico de Asturias





Under construction En construcción





NormaLINK



NORMALINK is a control and monitoring system for **DALI** general and emergency lighting.

It is possible to control from a **mobile device** (iOS/Android) both the general and the emergency lighting in one or several buildings.

This system can be set up and managed in a very simple and intuitive way:

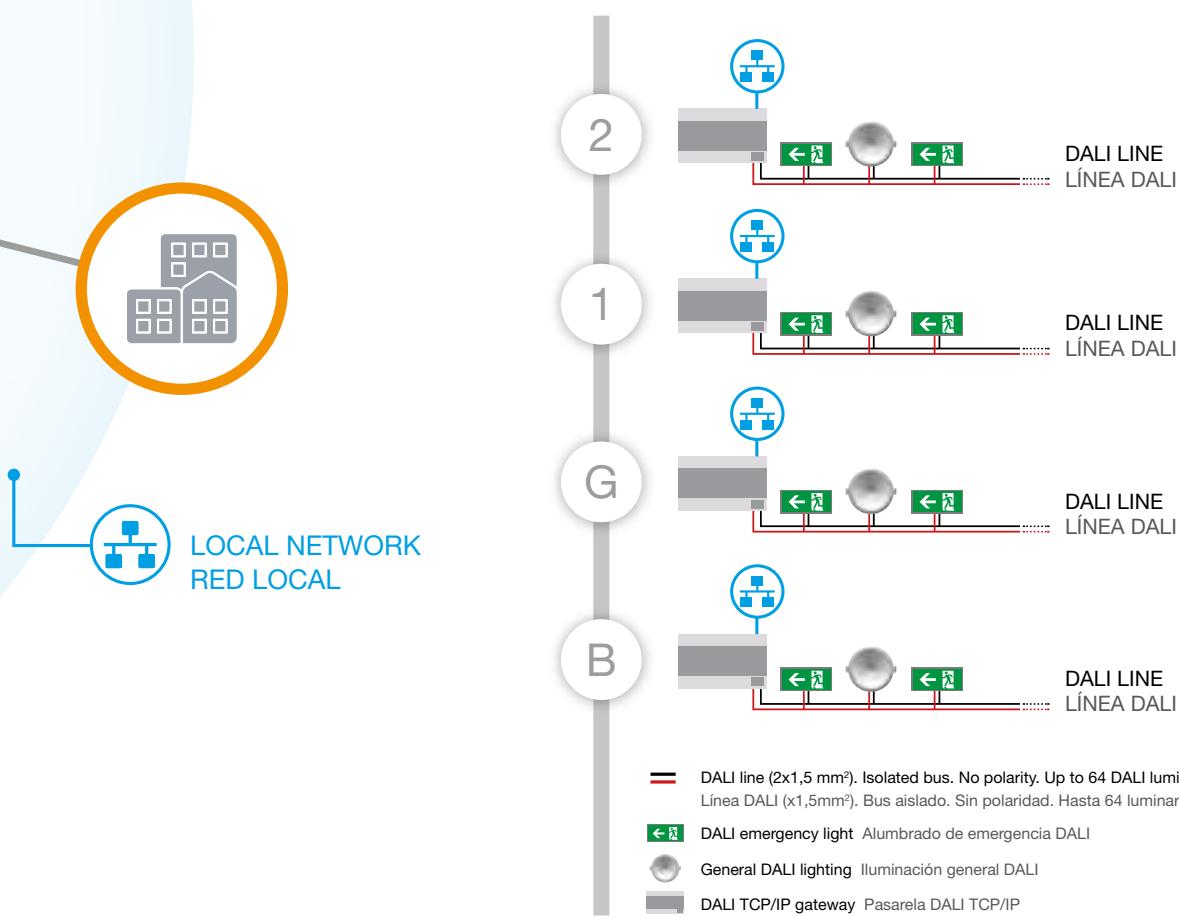
- Make lines of 64 DALI fittings (general or emergency lighting).
- Address and configure the DALI luminaires.
- Connect each DALI line to the gateway ref. IDNG.
- Integrate the DALI gateway (ref. IDNG) into the TCP/IP network of the site.
- Control all the sites/installations from a mobile device with the application NormaLink.

NORMALINK es un sistema de control y supervisión de equipos de alumbrado **DALI**.

Desde un **dispositivo móvil** (iOS/Android), es posible controlar tanto el alumbrado general como la iluminación de emergencia de uno o varios edificios.

Es un sistema sencillo e intuitivo de configurar y controlar:

- Haga líneas de 64 equipos DALI (alumbrado general y de emergencia).
- Direccionne y configure las luminarias DALI.
- Conecte cada línea DALI a la pasarela ref.IDNG.
- Integre la pasarela DALI (ref. IDNG) dentro de la red TCP/IP de su instalación.
- Controle todas la instalaciones desde un dispositivo móvil con la aplicación NormaLink.



All the control in the palm of your hand

- Make global controls, by type of fitting (luminaire or emergency light) or individually.
- Determine the level of light that you wish from every fitting.
- Create, edit and act on DALI groups.
- Run scenes.
- Program timings.
- Receive reports about any type of anomaly in your emergency lighting installation.
- Register all the events in the record of the installation.
- Program and run tests (functional and/or duration) at the most suitable moment.

Todo el control en la palma de su mano

- Realice controles de manera global, por tipo de equipo (luminaria o bloque de emergencia) o de forma individualizada.
- Establezca el nivel de luz que desee de cada equipo.
- Cree, edite y actúe sobre grupos DALI.
- Ejecute escenas.
- Programe temporizaciones.
- Reciba notificaciones ante cualquier tipo de anomalía en su instalación de alumbrado de emergencia.
- Registre todos los eventos ocurridos en el histórico de la instalación.
- Programe y ejecute los test (funcional y/o de autonomía) en el momento que más le convenga.



1	2	3	4	5
Global quickview of the buildings	Building with DALI gateways (up to 64 fittings per gateway)	Separate control of general and emergency lighting	Scenes execution	Emergency light failures per type (lamp, battery, duration and communication)
Vista rápida global de los edificios	Edificio con pasarelas DALI (hasta 64 equipos por pasarela)	Control separado de iluminación general y de emergencia	Ejecución de escenas	Fallos en las luminarias de emergencia por tipo (lámpara, batería, autonomía y comunicación)



2016

NEW NOVEDADES



ECLIPSE

ECLIPSE is a suspended downlight large format. It enables direct and indirect lighting in two versions, with and without central hole.

ECLIPSE es un downlight suspendido de gran formato. Permite iluminación directa e indirecta en sus dos versiones, con y sin agujero central.

Features:

- Possibility of DALI control
- Control of the UGR
- Possibility of customization its finishes

Características:

- Posibilidad de control DALI
- Control UGR
- Capacidad de personalización de sus acabados





AREA is a versatile projector that can solve any problem spot lighting in commercial and local exhibitions. Area has 4 different opening angles: intensive, medium, extensive and washer.

AREA es un proyector muy polifacético que permite resolver cualquier problema de iluminación puntual en locales comerciales o exposiciones. Area tiene 4 ángulos de apertura diferentes: intensivo, medio, extensivo y bañador.

Features:

- Possibility of DALI control
- Control of the UGR
- Multiple versions
- Possibility of customization its finishes

Características:

- Posibilidad de control DALI
- Control UGR
- Múltiples versiones
- Capacidad de personalización de sus acabados



Area

U-LINE is a minimalist linear system. It integrates into any space surprisingly and its turning system allows perfect enlightenment.

U-LINE es un sistema lineal minimalista. Se integra en cualquier espacio de forma sorprendente y con su sistema abatible permite obtener la iluminación perfecta.

Features:

- Possibility of DALI control
- Control of the UGR
- Multiple versions
- Possibility of customization its finishes

Características:

- Posibilidad de control DALI
- Control UGR
- Múltiples versiones
- Capacidad de personalización de sus acabados

U-Line





BLOK is an industrial luminaire to light open space from great heights. Its different light curves optimize savings in number of lamps and power.

BLOK es una luminaria industrial para iluminar espacios abiertos desde gran altura. Sus diferentes curvas lumínicas optimizan el ahorro en número de luminarias y potencia.

Features:

- High Luminosity (To 20.000 lm)
- Low consumption (Less than 200W)
- Fast installation
- Possibility of DALI control
- Control of the UGR

Características:

- Elevada Luminosidad (Hasta 20.000 lm)
- Consumo reducido (Menos de 200W)
- Rápida instalación
- Posibilidad de control Dali
- Control del UGR

2016

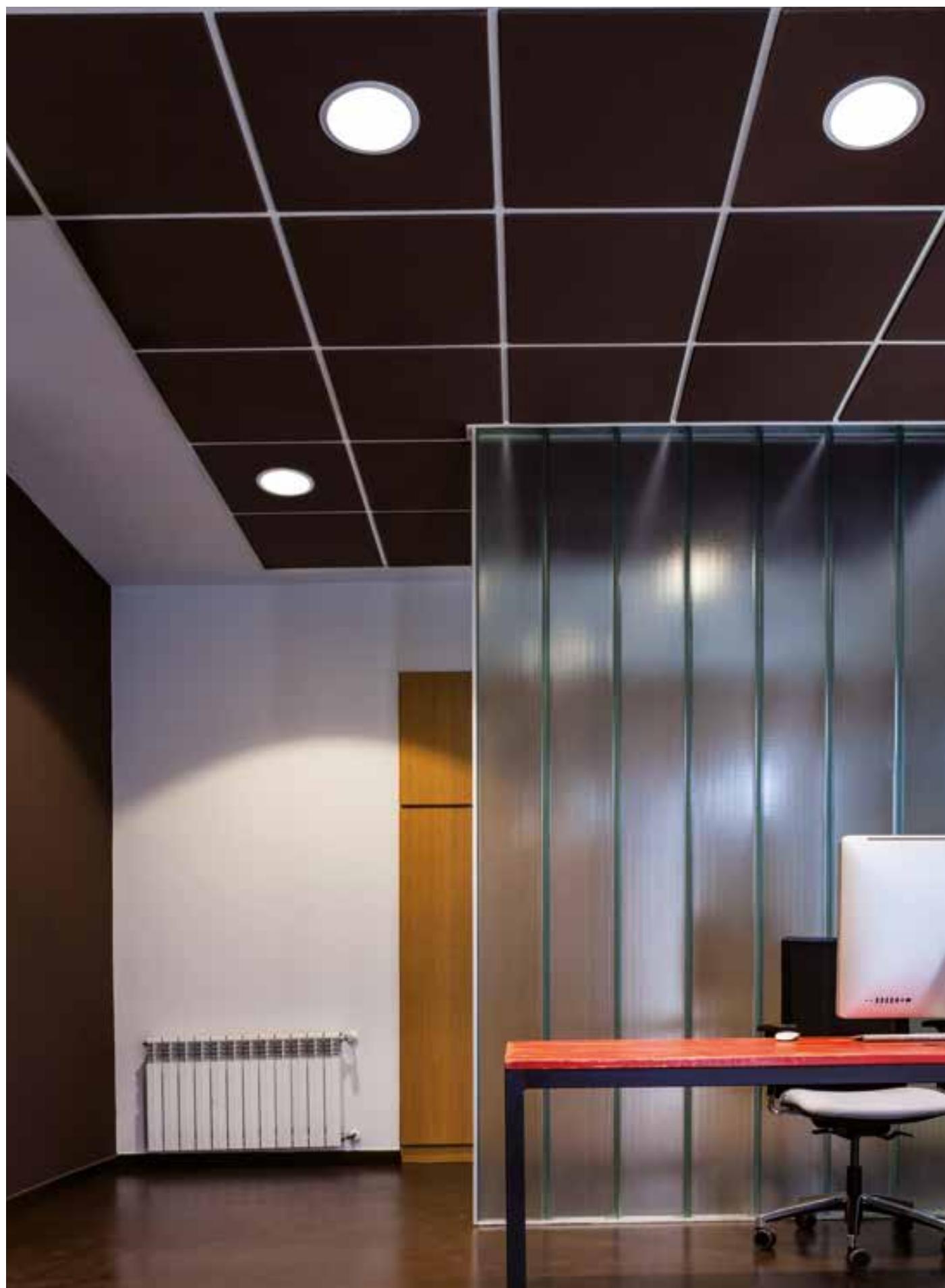
CATALOGUE

CATÁLOGO



Downlights

Elit	32
Elit Max	36
Elit Mini	40
Elit Micro	42
Elit S	44
Nahika	48
Nahika Q	50
Nahika Mini	52
Nahika Micro	54
Nahika Micro Q	55
Hat	62
Hat Q	63
Hat Mini	64
Hat Mini Q	65
Hat S	66
Tiny	69
Dorfin	72
Dorfin Q	74
Oqio	80
Oqio Led	82
Cyre	86
Pendulares	92
Pagoda	97



Elit

New range of LED (COB) downlights available in 4 different sizes to meet all lighting requirements in any project. With high performance and visual comfort, Elit is very light and compact, resulting suitable for installation in false ceilings with low height.

Nueva gama de downlights LED (COB) disponible en 4 tamaños diferentes para dar respuesta a todos los requerimientos lumínicos exigidos en cualquier proyecto. Con un elevado rendimiento y confort visual, el Elit se muestra muy ligero y compacto, resultando idóneo para la instalación en falsos techos de poca altura.



Elit



Optionally available with transparent or opal diffuser, the heatsink and the frame are made of die cast aluminum, and the reflector with high reflection technical plastic.

Disponible opcionalmente con difusor opalizado o transparente, el disipador y el aro externo están fabricados en inyección de aluminio y el reflector en plástico técnico de muy alta reflexión.



Elit

Installation	Instalación	Elit
Difusser	Difusor	○ ○ ○ ○
Light source	Fuente de luz	LED
Photobiological safety	Seguridad fotobiológica	0
UGR	UGR	<19
Flickering <15%	Flickering <15%	✓
CRI	CRI	80-90
Macadam Ellipse	Elipse de Macadam	3
Opening angle	Ángulo de apertura	98
Power (W)	Potencia (W)	16,3W 23,8W
Temperature	Temperatura	3000/4000
Lumens	Lúmenes	1875/2000 2350/2500
Power factor	Factor de potencia	0,95
Performance	Rendimiento	95,4
Useful live Led	Vida útil Led	60000
Useful live driver	Vida útil driver	>60000
Expectation	Expectativa	L70F10
Zhaga replaceable Led	Led sustituible Zhaga	✓
ON/OFF Cycles	Ciclos de encendido	120000
DALI	DALI	✓
Continuous Operation (24h)	Funcionamiento continuado 24h	✓
Independent Electronic	Electronica Independiente	✓
IP	IP	20-54
Class	Clase	III
Weight (Kg)	Peso (Kg)	0,8
Ideal recess	Escotadura ideal	ø218
Diameter range	Rango escotadura	ø214-225

○ Without diffuser
Sin cristal

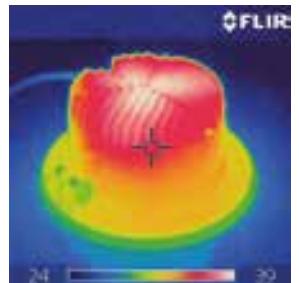
○ Transparent diffuser
Difusor transparente

○ Opal diffuser
Difusor opal

○ Washer diffuser
Difusor bañador



Elit Max	Elit Mini	Elit Micro	Elit S	Elit Micro S
Ceiling recessed Empotrado a techo	Ceiling recessed Empotrado a techo	Ceiling recessed Empotrado a techo	Ceiling surface mounting Adosado a techo	Ceiling surface mounting Adosado a techo
○ ○ ○ ○	○ ○ ○	○ ○ ○	○ ○ ○	○ ○ ○
LED	LED	LED	LED	LED
0 <19 ✓ 80-90 3 98	1 <19 ✓ 80-90 4 92	1 <19 ✓ 80-90 4 92	0 <19 ✓ 80-90 3 98	1 <19 ✓ 80-90 4 92
23,8W 3000/4000 1875/2000 2350/2500 0,95 95,4 60000 >60000 L70F10 ✓ 120000 ✓	14W 3000/4000 1490 0,95 97,6 60000 >60000 L70F10 ✓ 120000 ✓	6,4W 3000/4000 885 0,95 92,9 60000 >60000 L70F10 ✓ 120000 ✓	16,3W 3000/4000 1850/2000 0,95 95,4 60000 >60000 L70F10 ✓ 120000 ✓	6,4W 3000/4000 885 0,95 92,9 60000 >60000 L70F10 ✓ 120000 ✓
✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
20-54 III 0,9 ø245 ø238-260	20-54 III 0,6 ø130 ø128-135	20-54 III 0,3 ø78 ø74-80	20 III 1,1 — —	20 III 0,3 — —



Elit

Up to 58% energy saving
Hasta un 58% de ahorro de energía



Ceiling recessed
Empotrado a techo

IP 20	0 Photobiological Safety Seguridad Fotobiológica	UGR 19	CRI 80	
LED	CE	F	90°	

0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
95,4	Performance Rendimiento
19	Glare index Índice de deslumbramiento
98°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil

Expandable to 5 years warranty (depending on project) Garantía ampliable a 5 años (según proyecto)
Dimmable 1-10v as an option Regulación 1-10V bajo pedido



Minimum ceiling installation distance
Distancia mínima de instalación a techo

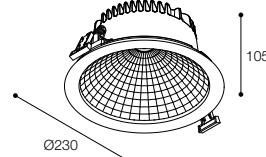
155

Ideal recess
Escotadura ideal

Ø218

Diameter range
Rango de escotadura

Ø214-225



Colour Color



B



G



N

① Heat sink integrated
in the housing, small size
Dissipador integrado en la
envolvente, tamaño reducido

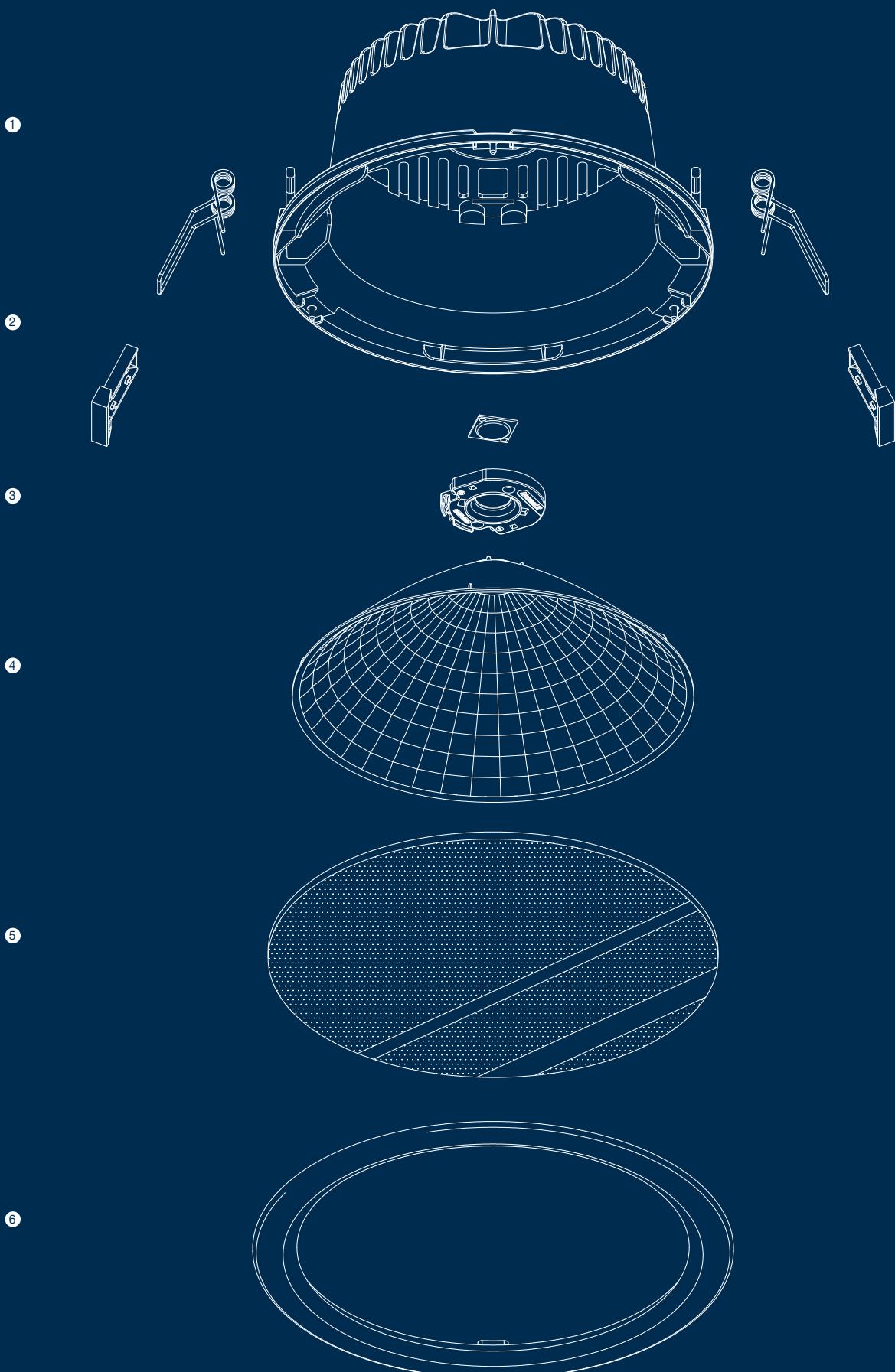
② Concentric rings diffuser
that optimizes the light
output (UGR<19)
Difusor de aros concéntricos,
optimiza el flujo luminoso
(UGR<19)

③ Replaceable Led COB
Led COB sustituibles

④ Thermal controller,
increases the useful life
Control térmico, alarga la
vida útil

⑤ Customizable ring,
aesthetic integration
Aro personalizable,
integración estética





1
Heat Sink
Cuerpo disipador

2
Fixing clamps
Grapas de sujeción

3
Led COB
Led COB

4
Concentric rings diffuser
Difusor de aros concéntricos

5
Diffuser
Difusor

6
Customizable ring
Aro personalizable

Elit



Ceiling recessed
Empotrado a techo



Without diffuser
Sin cristal

0 Photobiological Safety
Seguridad Fotobiológica

UGR
19



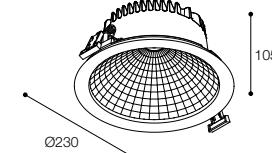
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

95,4 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

98° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



Minimum ceiling installation distance
Distancia mínima de instalación a techo
155

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N

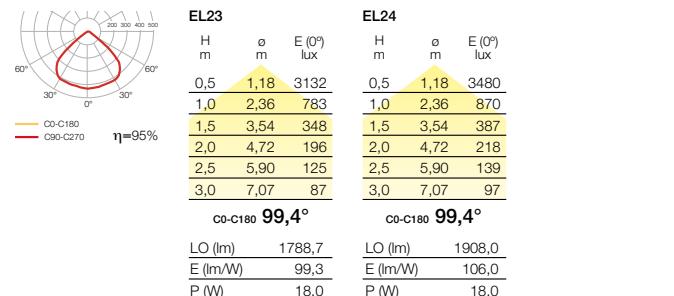


Ideal recess
Escotadura ideal
Ø218

Diameter range
Rango de escotadura
Ø214-225

	W	K	LUMEN	IP
LED EL23	1x16,3W	3000	1875 lm	20
LED EL24	1x16,3W	4000	2000 lm	20
LED EL33	1x23,8W	3000	2350 lm	20
LED EL34	1x23,8W	4000	2500 lm	20

	W	K	LUMEN	IP
LED EL23D	1x16,3W	3000	1875 lm	20
LED EL24D	1x16,3W	4000	2000 lm	20
LED EL33D	1x23,8W	3000	2350 lm	20
LED EL34D	1x23,8W	4000	2500 lm	20



	EL33	EL34			
H m	θ m	E (0°) lux	H m	θ m	E (0°) lux
0,5	1,18	4211	0,5	1,18	4472
1,0	2,36	1053	1,0	2,36	1118
1,5	3,54	468	1,5	3,54	497
2,0	4,72	263	2,0	4,72	279
2,5	5,90	168	2,5	5,90	179
3,0	7,07	117	3,0	7,07	124

CO-C180 99,4° CO-C180 99,4°

LO (lm)	2241,9
E (lm/W)	85,8
P (W)	26,1

LO (lm)	2385,0
E (lm/W)	91,3
P (W)	26,1

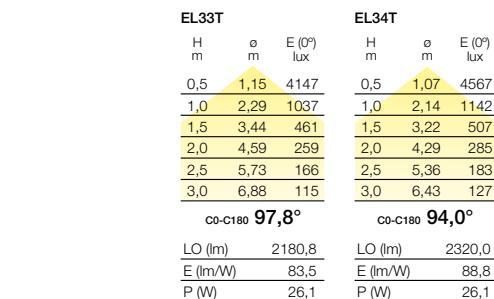
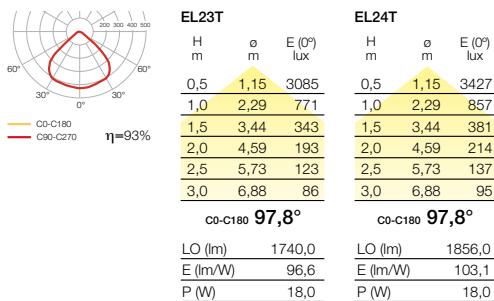
 Transparent diffuser
Difusor transparente



	W	K	LUMEN	IP
 LED EL23T	1x16,3W	3000	1875 lm	54
 LED EL24T	1x16,3W	4000	2000 lm	54
 LED EL33T	1x23,8W	3000	2350 lm	54
 LED EL34T	1x23,8W	4000	2500 lm	54



	W	K	LUMEN	IP
 LED EL23DT	1x16,3W	3000	1875 lm	54
 LED EL24DT	1x16,3W	4000	2000 lm	54
 LED EL33DT	1x23,8W	3000	2350 lm	54
 LED EL34DT	1x23,8W	4000	2500 lm	54



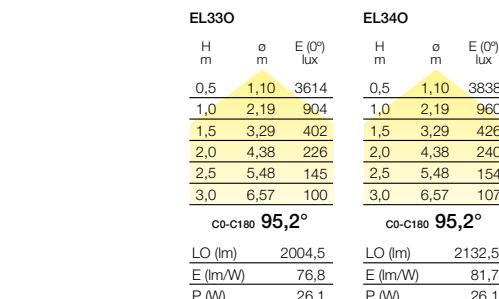
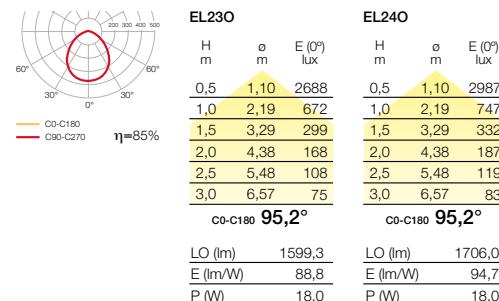
 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 LED EL23O	1x16,3W	3000	1875 lm	54
 LED EL24O	1x16,3W	4000	2000 lm	54
 LED EL33O	1x23,8W	3000	2350 lm	54
 LED EL34O	1x23,8W	4000	2500 lm	54



	W	K	LUMEN	IP
 LED EL23DO	1x16,3W	3000	1875 lm	54
 LED EL24DO	1x16,3W	4000	2000 lm	54
 LED EL33DO	1x23,8W	3000	2350 lm	54
 LED EL34DO	1x23,8W	4000	2500 lm	54





Ceiling recessed
Empotrado a techo



Washer diffuser
Difusor bañador

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**



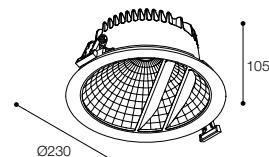
LED

0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

79 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

B G N

Ref. + B,G,N

Minimum ceiling installation distance
Distancia mínima de instalación a techo

155

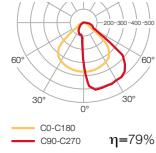
Ideal recess
Escotadura ideal

Ø218

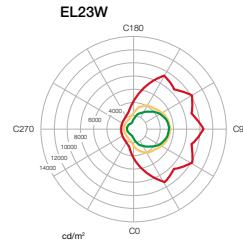


Diameter range
Rango de escotadura

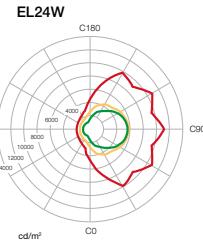
Ø214-225



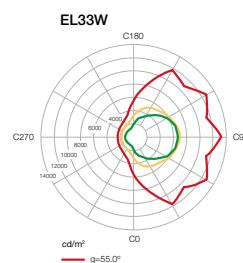
	W	K	LUMEN	IP
EL23W	1x16,3W	3000	1875 lm	20
EL24W	1x16,3W	4000	2000 lm	20
EL33W	1x23,8W	3000	2350 lm	20
EL34W	1x23,8W	4000	2500 lm	20



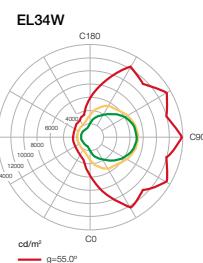
LO (lm) 1479,7
E (lm/W) 82,2
P (W) 18,0



LO (lm) 1578,4
E (lm/W) 87,6
P (W) 18,0



LO (lm) 1854,6
E (lm/W) 71,0
P (W) 26,1



LO (lm) 1973,0
E (lm/W) 75,5
P (W) 26,1





State of the art premises
Instalaciones de última generación

Elit Max



Ceiling recessed
Empotrado a techo

NEW

0 Photobiological Safety
Seguridad Fotobiológica

UGR
19



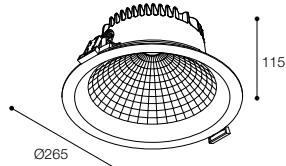
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

95,4 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

98° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



Without diffuser
Sin cristal



Minimum ceiling installation distance
Distancia mínima de instalación a techo

165

Ideal recess
Escotadura ideal

Ø245

Diameter range
Rango de escotadura

Ø238-260

	W	K	LUMEN	IP
LED EE33	1x23,8W	3000	2350 lm	20
LED EE34	1x23,8W	4000	2500 lm	20

	W	K	LUMEN	IP
LED EE33D	1x23,8W	3000	2350 lm	20
LED EE34D	1x23,8W	4000	2500 lm	20

EE33			EE34		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18	4211	0,5	1,18	4472
1,0	2,36	1053	1,0	2,36	1118
1,5	3,54	468	1,5	3,54	497
2,0	4,72	263	2,0	4,72	279
2,5	5,90	168	2,5	5,90	179
3,0	7,07	117	3,0	7,07	124
CO-C180 99,4°			CO-C180 99,4°		
LO (lm) 2241,9			LO (lm) 2385,0		
E (lm/W) 85,8			E (lm/W) 91,3		
P (W) 26,1			P (W) 26,1		

CO-C180 99,4°

Elit Max

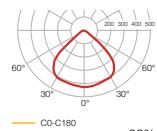
 Transparent diffuser
Difusor transparente



	W	K	LUMEN	IP
 EE33T	1x23,8W	3000	2350 lm	54
 EE34T	1x23,8W	4000	2500 lm	54



	W	K	LUMEN	IP
 EE33DT	1x23,8W	3000	2350 lm	54
 EE34DT	1x23,8W	4000	2500 lm	54



EE33T

H m	ø m	E (0°) lux
0,5	1,15	4147
1,0	2,29	1037
1,5	3,44	461
2,0	4,59	259
2,5	5,73	166
3,0	6,88	115

co-c180 97,8°

LO (lm)	2180,8
E (lm/W)	83,5
P (W)	26,1

EE34T

H m	ø m	E (0°) lux
0,5	1,15	4404
1,0	2,29	1101
1,5	3,44	489
2,0	4,59	275
2,5	5,73	176
3,0	6,88	122

co-c180 97,8°

LO (lm)	2320,0
E (lm/W)	88,8
P (W)	26,1

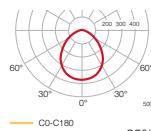
 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 EE33O	1x23,8W	3000	2350 lm	54
 EE34O	1x23,8W	4000	2500 lm	54



	W	K	LUMEN	IP
 EE33DO	1x23,8W	3000	2350 lm	54
 EE34DO	1x23,8W	4000	2500 lm	54



EE33O

H m	ø m	E (0°) lux
0,5	1,10	3614
1,0	2,19	904
1,5	3,29	402
2,0	4,38	226
2,5	5,48	145
3,0	6,57	100

co-c180 95,2°

LO (lm)	2004,5
E (lm/W)	76,8
P (W)	26,1

EE34O

H m	ø m	E (0°) lux
0,5	1,10	3838
1,0	2,19	960
1,5	3,29	426
2,0	4,38	240
2,5	5,48	154
3,0	6,57	107

co-c180 95,2°

LO (lm)	2132,5
E (lm/W)	81,7
P (W)	26,1

Elit Max



Ceiling recessed
Empotrado a techo



Washer diffuser
Difusor bañador

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**

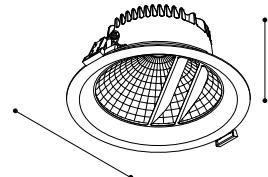


0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

79 Performance
Rendimiento

19 Glare index
Índice de deslumbramiento

60.000 Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N

Minimum ceiling installation distance
Distancia mínima de instalación a techo

165

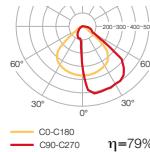
Ideal recess
Escotadura ideal

Ø245



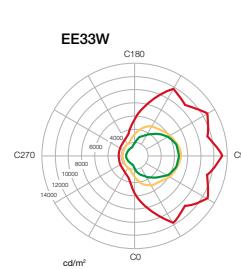
Diameter range
Rango de escotadura

Ø238-260

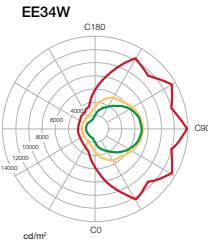


$\eta=79\%$

	W	K	LUMEN	IP
EE33W	1x23,8W	3000	2350 lm	54
EE34W	1x23,8W	4000	2500 lm	54



LO (lm) 1854,6
E (lm/W) 71,0
P (W) 26,1



LO (lm) 1972,5
E (lm/W) 75,5
P (W) 26,1



100% entirely designed and manufactured in Spain
100% diseñado y fabricado íntegramente en España

Elit Mini



Ceiling recessed
Empotrado a techo



Without diffuser
Sin cristal

1	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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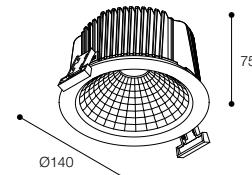
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

97,6 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

92° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



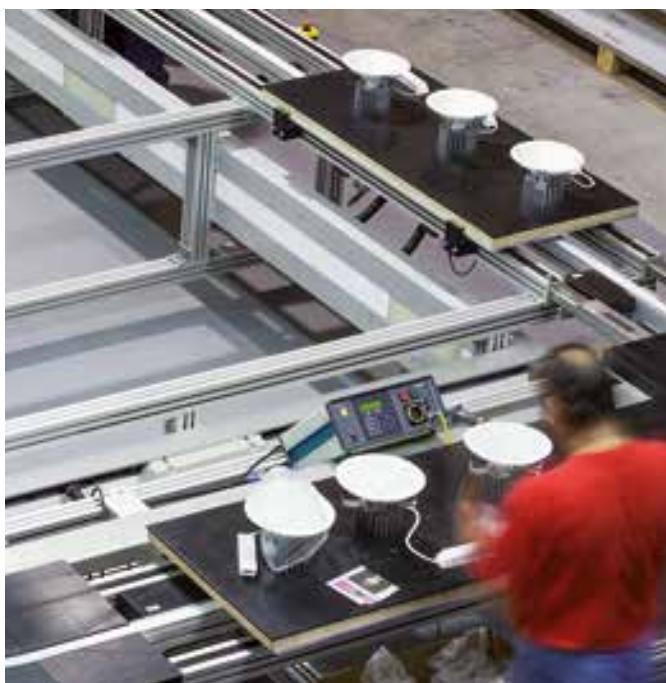
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

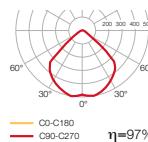


Ref. + B,G,N



	W	K	LUMEN	IP
EM13	1x14W	3000	1490 lm	20
EM14	1x14W	4000	1490 lm	20

	W	K	LUMEN	IP
EM13D	1x14W	3000	1490 lm	20
EM14D	1x14W	4000	1490 lm	20



EM13			EM14		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,10	2861	0,5	1,10	2861
1,0	2,21	715	1,0	2,21	715
1,5	3,31	318	1,5	3,31	318
2,0	4,41	179	2,0	4,41	179
2,5	5,51	114	2,5	5,51	114
3,0	6,62	79	3,0	6,62	79

CO-C180 95,6° CO-C180 95,6°

LO (lm)	1454,2	LO (lm)	1454,2
E (lm/W)	96,9	E (lm/W)	96,9
P (W)	15,0	P (W)	15,0

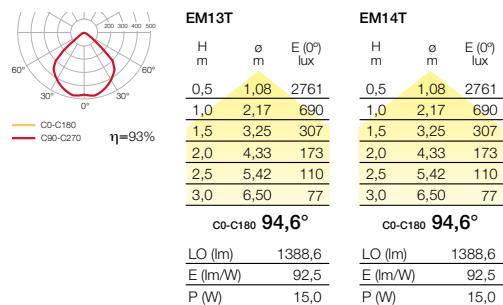
Elit Mini

 Transparent diffuser
Difusor transparente



	W	K	LUMEN	IP
 LED EM13T	1x14W	3000	1490 lm	54
 LED EM14T	1x14W	4000	1490 lm	54

	W	K	LUMEN	IP
 LED EM13DT	1x14W	3000	1490 lm	54
 LED EM14DT	1x14W	4000	1490 lm	54

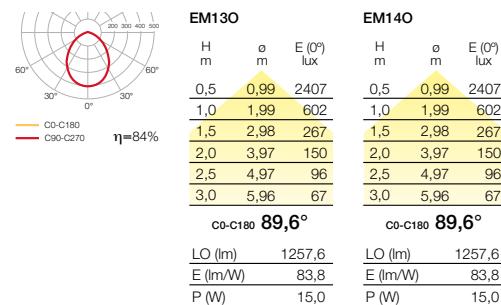


 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 LED EM13O	1x14W	3000	1490 lm	54
 LED EM14O	1x14W	4000	1490 lm	54

	W	K	LUMEN	IP
 LED EM13DO	1x14W	3000	1490 lm	54
 LED EM14DO	1x14W	4000	1490 lm	54



Elit Micro



Ceiling recessed
Empotrado a techo

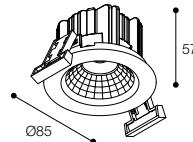


Without diffuser
Sin cristal

1	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)



92,9 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

92° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N

Minimum ceiling installation distance
Distancia mínima de instalación a techo

110

Ideal recess
Escotadura ideal

Ø78

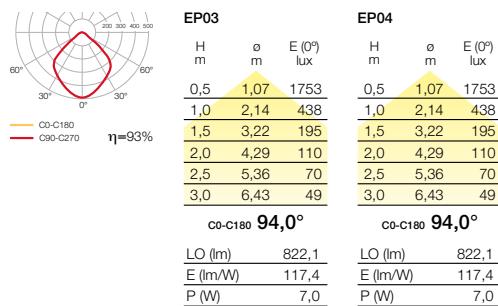
Diameter range
Rango de escotadura

Ø74-80



	W	K	LUMEN	IP
EP03	1x6,4W	3000	885 lm	20
EP04	1x6,4W	4000	885 lm	20

	W	K	LUMEN	IP
EP03D	1x6,4W	3000	885 lm	20
EP04D	1x6,4W	4000	885 lm	20



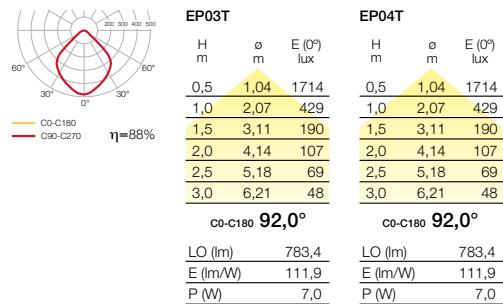
Elit Micro

 Transparent diffuser
Difusor transparente



	W	K	LUMEN	IP
 LED EP03T	1x6,4W	3000	885 lm	54
 LED EP04T	1x6,4W	4000	885 lm	54

	EP03DT	1x6,4W	3000	885 lm	54
	EP04DT	1x6,4W	4000	885 lm	54

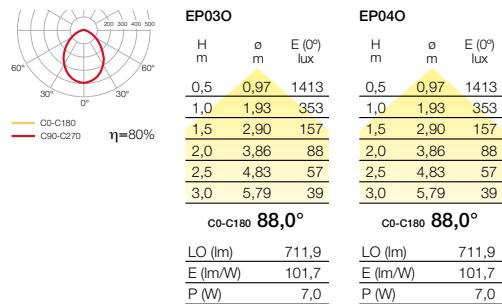


 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 LED EP03O	1x6,4W	3000	885 lm	54
 LED EP04O	1x6,4W	4000	885 lm	54

	EP03DO	1x6,4W	3000	885 lm	54
	EP04DO	1x6,4W	4000	885 lm	54



Elit S



Ceiling surface mounting
Adosado a techo

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**



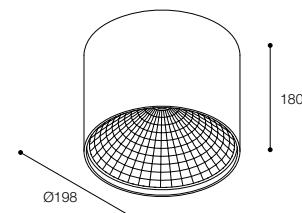
0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

95,4 Performance
Rendimiento

19 Glare index
Índice de deslumbramiento

99,4° Opening angle
Ángulo de apertura

60.000 Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

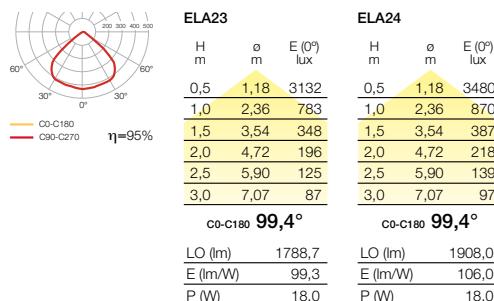


Ref. + B,G,N



	W	K	LUMEN	IP
ELA23	1x16,3W	3000	1875 lm	20
ELA24	1x16,3W	4000	2000 lm	20

	W	K	LUMEN	IP
ELA23D	1x16,3W	3000	1875 lm	20
ELA24D	1x16,3W	4000	2000 lm	20



Elit Micro S



Ceiling surface mounting
Adosado a techo

1

Photobiological Safety
Seguridad Fotobiológica

19



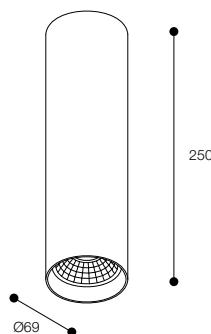
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

92,9 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

94° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

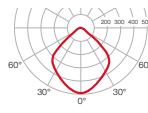
Colour Color



Ref. + B,G,N



	W	K	LUMEN	IP
LED EPA03	1x6,4W	3000	885 lm	20
LED EPA04	1x6,4W	4000	885 lm	20



EPA03		
H m	ø m	E (0°) lux
0,5	1,07	1753
1,0	2,14	438
1,5	3,22	195
2,0	4,29	110
2,5	5,36	70
3,0	6,43	49
C0-C180 94,0°		

EPA04		
H m	ø m	E (0°) lux
0,5	1,07	1753
1,0	2,14	438
1,5	3,22	195
2,0	4,29	110
2,5	5,36	70
3,0	6,43	49
C0-C180 94,0°		
LO (lm) 822,1		
E (lm/W) 117,4		
P (W) 7,0		

Nahika



NAHIKA is a downlight family available in three sizes and rounded and squared format. Especially designed for LED. Installation frame manufactured in cast aluminium and decorative frame in technical plastic. A wall-washer version is also available. The ceiling installation is realized by means of a simple worm gear lock and cast aluminium anchor system. LED version comes with a high feature aluminium dissipator which optimizes efficiency of the set.

NAHIKA es una familia de downlights de tres tamaños y en formatos redondo y cuadrado. Especialmente diseñada para LED. Marco de instalación construido en fundición de aluminio y marco embellecedor de plástico técnico. Dispone de una versión bañadora de pared. La instalación en el techo se realiza mediante un sencillo sistema de tornillos sin fin y levas de fundición de aluminio. La versión LED incorpora un disipador de aluminio de altas prestaciones que optimiza el rendimiento del conjunto.



Nahika



Ceiling recessed
Empotrado a techo



Without diffuser
Sin cristal

0	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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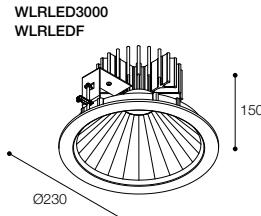
0,95 | Power factor (cos φ)
Factor de potencia (cos φ)

93 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

92° | Opening angle
Ángulo de apertura

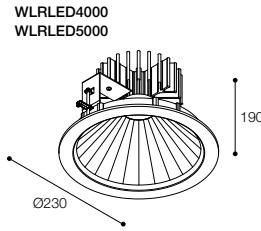
60.000 | Useful life
Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ideal recess
Escotadura ideal

Ø218

LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

WLRLEDB

1x31,1W

3000

2420 lm

20

WLRLEDF

1x31,1W

4000

2530 lm

20

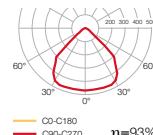
WLRLEDM

1x31,1W

2000

1885 lm

20



WLRLED3000

WLRLED4000

WLRLED5000

H m

H m

H m

ø m

ø m

ø m

E (0°) lux

E (0°) lux

E (0°) lux

0,5 1,06 5610

0,5 1,06 7479

0,5 1,06 9349

1,0 2,12 1402

1,0 2,12 1870

1,0 2,12 2337

1,5 3,18 623

1,5 3,18 831

1,5 3,18 1039

2,0 4,24 351

2,0 4,24 467

2,0 4,24 584

2,5 5,31 224

2,5 5,31 299

2,5 5,31 374

3,0 6,37 208

3,0 6,37 208

3,0 6,37 260

CO-C180 93,4°

CO-C180 93,4°

CO-C180 93,4°

LO (lm) 2790,0

LO (lm) 3720,0

LO (lm) 4650,0

E (lm/W) 97,8

E (lm/W) 96,6

E (lm/W) 119,2

P (W) 28,5

P (W) 38,5

P (W) 39,0

CO-C180 93,4°

CO-C180 93,4°

CO-C180 93,4°

LO (lm) 2250,6

LO (lm) 2352,9

LO (lm) 1753,0

E (lm/W) 65,8

E (lm/W) 68,7

E (lm/W) 51,2

P (W) 34,2

P (W) 34,2

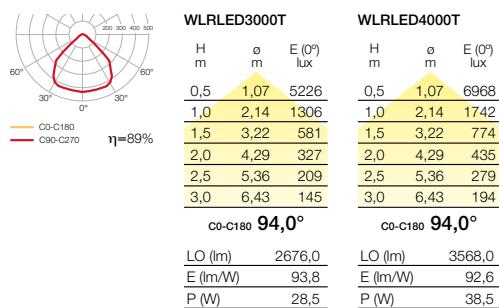
P (W) 34,2

Nahika

 Transparent diffuser
Difusor transparente



	W	K	LUMEN	IP
 WLRLED3000T	1x26,2W	4000	3000 lm	54
 WLRLED4000T	1x35W	4000	4000 lm	54
 WLRLED5000T	1x35,4W	4000	5000 lm	54

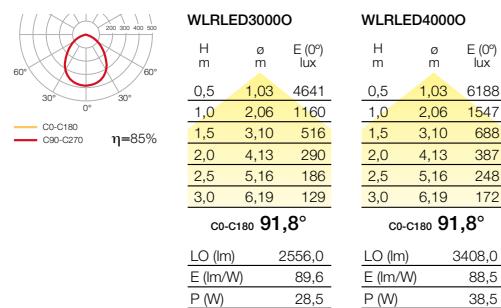


WLRLED5000T		
H m	ø m	E (0°) lux
0,5	1,07	8710
1,0	2,14	2177
1,5	3,22	968
2,0	4,29	544
2,5	5,36	348
3,0	6,43	242
co-C180 94,0°		
LO (lm)	4460,0	
E (lm/W)	114,3	
P (W)	39,0	

 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 WLRLED3000O	1x26,2W	4000	3000 lm	54
 WLRLED4000O	1x35W	4000	4000 lm	54
 WLRLED5000O	1x35,4W	4000	5000 lm	54



WLRLED5000O		
H m	ø m	E (0°) lux
0,5	1,03	7735
1,0	2,06	1934
1,5	3,10	859
2,0	4,13	483
2,5	5,16	309
3,0	6,19	215
co-C180 91,8°		
LO (lm)	4260,0	
E (lm/W)	109,2	
P (W)	39,0	

Nahika Q



Ceiling recessed
Empotrado a techo

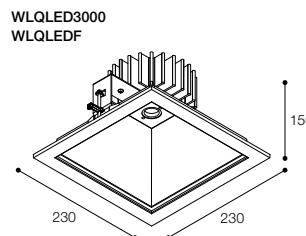


Without diffuser
Sin cristal

0	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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0,95 | Power factor (cos φ)
Factor de potencia (cos φ)



93 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

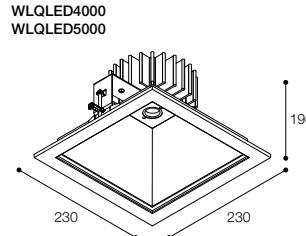
92° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ideal recess
Escotadura ideal

216x216



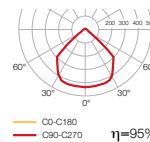
	W	K	LUMEN	IP
WLQLED3000	1x26,2W	4000	3000 lm	20
WLQLED4000	1x35W	4000	4000 lm	20
WLQLED5000	1x35,4W	4000	5000 lm	20

LEDS FOOD

Special colour temperature for food

Temperaturas de color especiales para alimentación

WLQLEDB	1x31,1W	3000	2420 lm	20
WLQLEDF	1x31,1W	4000	2530 lm	20
WLQLEDM	1x31,1W	2000	1885 lm	20



WLQLED3000

H m ø m E (0°) lux

0,5 1,08 5215

1,0 2,17 1304

1,5 3,25 579

2,0 4,33 326

2,5 5,42 209

3,0 6,50 145

CO-C180 **94,6°**

LO (lm) 2850,0

E (lm/W) 100,0

P (W) 28,5

WLQLED4000

H m ø m E (0°) lux

0,5 1,08 6953

1,0 2,17 1738

1,5 3,25 773

2,0 4,33 435

2,5 5,42 278

3,0 6,50 193

CO-C180 **94,6°**

LO (lm) 3800,0

E (lm/W) 98,7

P (W) 38,5

WLQLED5000

H m ø m E (0°) lux

0,5 1,08 8891

1,0 2,17 2173

1,5 3,25 966

2,0 4,33 543

2,5 5,42 348

3,0 6,50 241

CO-C180 **94,6°**

LO (lm) 4650,0

E (lm/W) 119,2

P (W) 39,0

WLQLEDB

H m ø m E (0°) lux

0,5 1,08 4206

1,0 2,17 1052

1,5 3,25 467

2,0 4,33 263

2,5 5,42 168

3,0 6,50 117

CO-C180 **94,6°**

LO (lm) 2299,0

E (lm/W) 67,2

P (W) 34,2

WLQLEDF

H m ø m E (0°) lux

0,5 1,08 4398

1,0 2,17 1099

1,5 3,25 489

2,0 4,33 275

2,5 5,42 176

3,0 6,50 122

CO-C180 **94,6°**

LO (lm) 2403,5

E (lm/W) 70,2

P (W) 34,2

WLQLEDM

H m ø m E (0°) lux

0,5 1,08 3277

1,0 2,17 819

1,5 3,25 364

2,0 4,33 205

2,5 5,42 131

3,0 6,50 91

CO-C180 **94,6°**

LO (lm) 1790,7

E (lm/W) 52,3

P (W) 34,2

Nahika Q

 Transparent diffuser
Difusor transparente

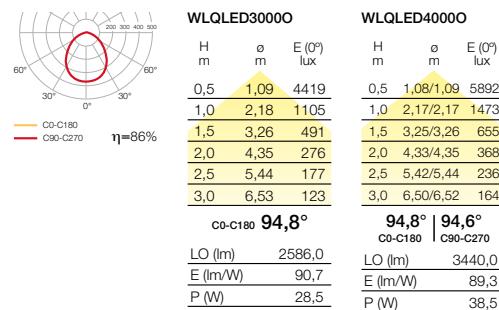
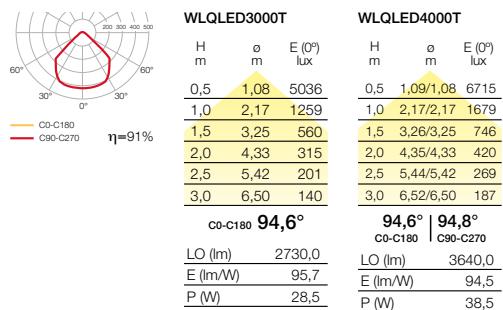


 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
 WLQLED3000T	1x26,2W	4000	3000 lm	54
 WLQLED4000T	1x35W	4000	4000 lm	54
 WLQLED5000T	1x35,4W	4000	5000 lm	54

	W	K	LUMEN	IP
 WLQLED3000O	1x26,2W	4000	3000 lm	54
 WLQLED4000O	1x35W	4000	4000 lm	54
 WLQLED5000O	1x35,4W	4000	5000 lm	54



WLQLED5000T

H m	ø m	E (0°) lux
0,5	1,09/1,08	8394
1,0	2,17/2,17	2098
1,5	3,26/3,25	933
2,0	4,35/4,33	525
2,5	5,44/5,42	336
3,0	6,52/6,50	233

94,6° | 94,8° CO-C180 C90-C270

LO (lm)	4550,0
E (lm/W)	116,6
P (W)	39,0

WLQLED5000O

H m	ø m	E (0°) lux
0,5	1,08/1,09	7365
1,0	2,17/2,17	1841
1,5	3,25/3,26	818
2,0	4,33/4,35	460
2,5	5,42/5,44	295
3,0	6,50/6,52	205

94,8° | 94,6° CO-C180 C90-C270

LO (lm)	4260,0
E (lm/W)	109,2
P (W)	39,0

Nahika Mini



Ceiling recessed
Empotrado a techo

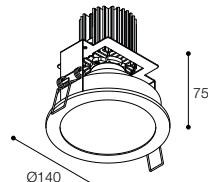


Without diffuser
Sin cristal

1	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
83,7	Performance Rendimiento
19	Glare index Índice de deslumbramiento
60.000	Useful life L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ideal recess
Escotadura ideal

Ø125



CD-C180
CD90-C270

$\eta=97\%$

WLMRLED11

H m	ϕ m	E (0°) lux
0,5	1,10	2861
1,0	2,21	715
1,5	3,31	318
2,0	4,41	179
2,5	5,51	114
3,0	6,62	79

co-C180 **95,6°**

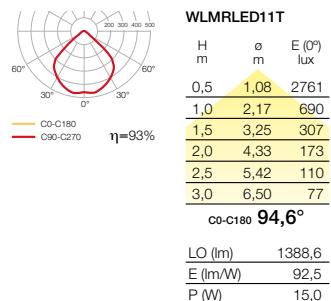
LO (lm)	1454,2
E (lm/W)	96,9
P (W)	15,0

Nahika Mini

 Transparent diffuser
Difusor transparente



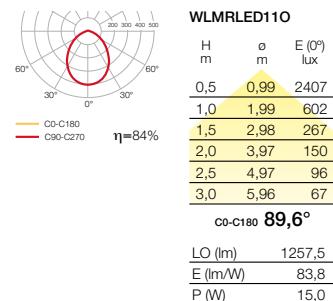
	W	K	LUMEN	IP
LED WLMRLED11T	1x14W	4000	1490 lm	54



 Opal diffuser
Difusor opal



	W	K	LUMEN	IP
LED WLMRLED11O	1x14W	4000	1490 lm	54



Nahika Micro



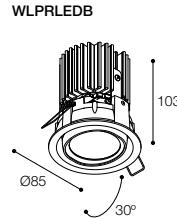
Ceiling recessed
Empotrado a techo

1 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)



92,2 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

60.000 | Useful life
Vida útil
L70F10

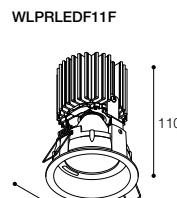
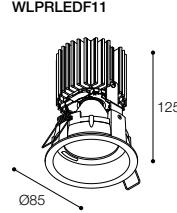
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,N



Ideal recess
Escotadura ideal

Ø78



	W	K	LUMEN	IP
WLPRLEDB11	1x14W	4000	1490 lm	20
WLPRLEDF11	1x14W	4000	1490 lm	20

	W	K	LUMEN	IP
WLPRLEDF11F	1x14W	4000	1490 lm	20

WLPRLEDB11 WLPRLEDF11	WLPRLEDB11			WLPRLEDF11		
	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
	0,5	0,29	7706	0,5	0,29	7706
	1,0	0,57	1926	1,0	0,57	1926
	1,5	0,86	856	1,5	0,86	856
	2,0	1,15	482	2,0	1,15	482
	2,5	1,43	308	2,5	1,43	308
	3,0	1,72	214	3,0	1,72	214
	$\eta=92\%$			$\eta=92\%$		
	co-c180 32,0°			co-c180 32,0°		
LO (lm)	1177,1	LO (lm)	1177,1			
E (lm/W)	78,4	E (lm/W)	78,4			
P (W)	15,0	P (W)	15,0			

WLPRLEDF11F	WLPRLEDF11F		
	H m	ø m	E (0°) lux
	0,5	0,48	5869
	1,0	0,96	1467
	1,5	1,44	652
	2,0	1,93	367
	2,5	2,41	235
	3,0	2,89	163
	$\eta=88\%$		
	co-c180 51,4°		
LO (lm)	1314,1	LO (lm)	1314,1
E (lm/W)	87,6	E (lm/W)	87,6
P (W)	15,0	P (W)	15,0

Nahika Micro Q

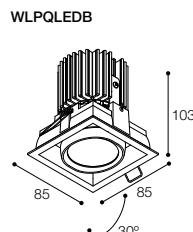


Ceiling recessed
Empotrado a techo

1	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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0,95	Power factor (COS ϕ) Factor de potencia (COS ϕ)
92,2	Performance Rendimiento
19	Glare index Índice de deslumbramiento
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

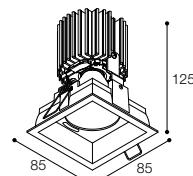
Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

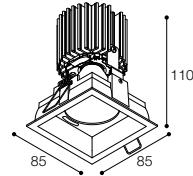


Ref. + B,N

WLPQLEDF11



WLPQLEDF11F



Ideal recess
Escotadura ideal
78x78



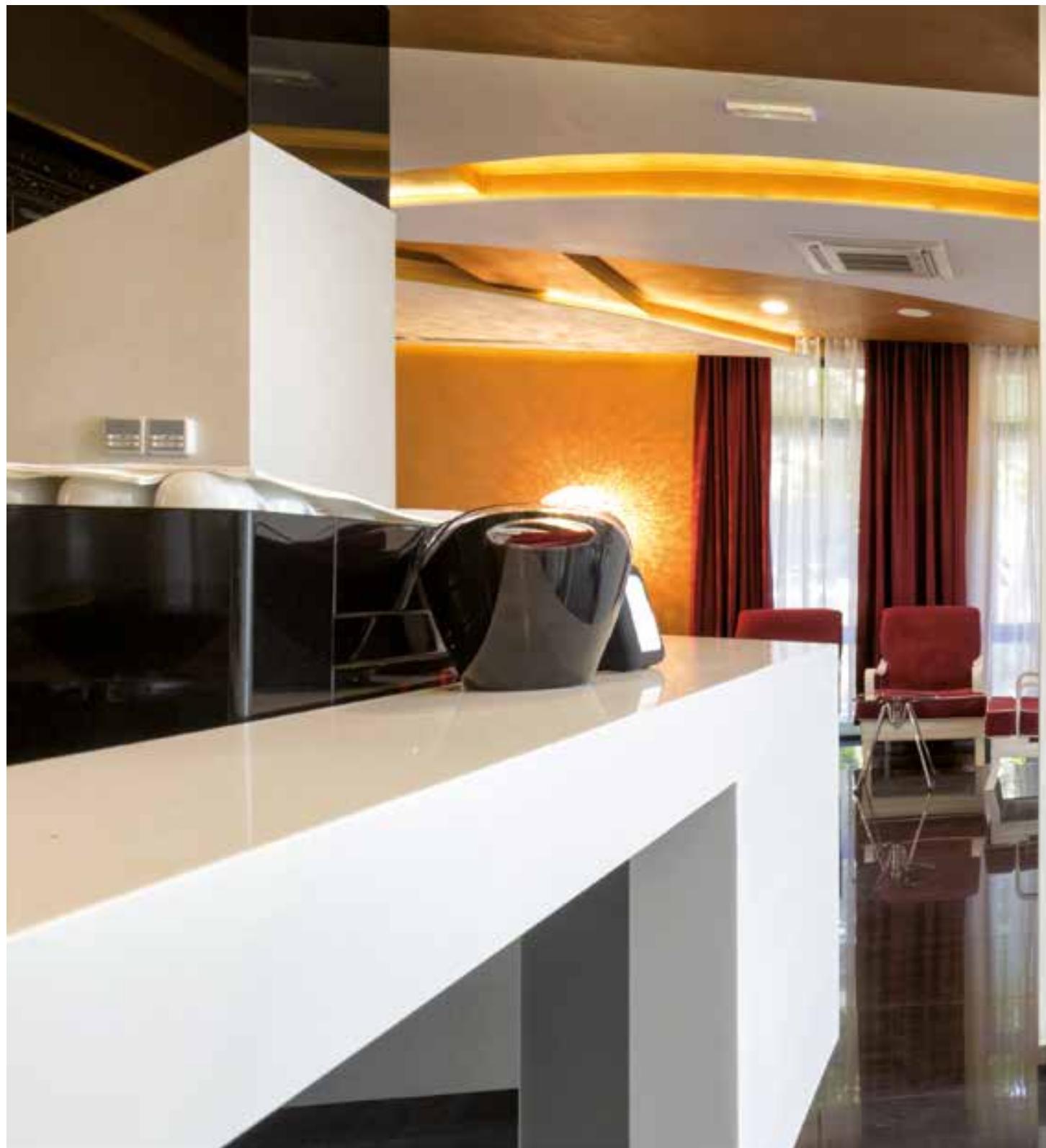
	W	K	LUMEN	IP
WLPQLEDB11	1x14W	4000	1490 lm	20
WLPQLEDF11	1x14W	4000	1490 lm	20

	W	K	LUMEN	IP
WLPQLEDF11F	1x14W	4000	1490 lm	20

WLPQLEDB11 WLPQLEDF11	WLPQLEDB11			WLPQLEDF11		
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
	0,5	0,29	7706	0,5	0,29	7706
	1,0	0,57	1926	1,0	0,57	1926
	1,5	0,86	856	1,5	0,86	856
	2,0	1,15	482	2,0	1,15	482
	2,5	1,43	308	2,5	1,43	308
	3,0	1,72	214	3,0	1,72	214
	$\eta=92\%$			$\eta=92\%$		
	co-c180 32,0°			co-c180 32,0°		
	LO (lm)	1177,1		LO (lm)	1177,1	
	E (lm/W)	78,4		E (lm/W)	78,4	
	P (W)	15,0		P (W)	15,0	

WLPQLEDB11	WLPQLEDB11			WLPQLEDF11F		
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
	0,5	0,48	5869	0,5	0,48	5869
	1,0	0,96	1467	1,0	0,96	1467
	1,5	1,44	652	1,5	1,44	652
	2,0	1,93	367	2,0	1,93	367
	2,5	2,41	235	2,5	2,41	235
	3,0	2,89	163	3,0	2,89	163
	$\eta=88\%$			$\eta=88\%$		
	co-c180 51,4°			co-c180 51,4°		
	LO (lm)	1314,1		LO (lm)	1314,1	
	E (lm/W)	87,6		E (lm/W)	87,6	
	P (W)	15,0		P (W)	15,0	

Hat



New range of LED. HAT is very light and compact, resulting suitable for installation in false ceilings with very low height.

Available with opal diffuser, the heatsink and the frame are made of die cast aluminum.

Nueva gama de downlights LED. HAT se muestra muy ligero y compacto, resultando idóneo para la instalación en falsos techos de muy baja altura.

Disponible con difusor opalizado, el disipador y el aro externo están fabricados en inyección de aluminio y el difusor en policarbonato.



Hat



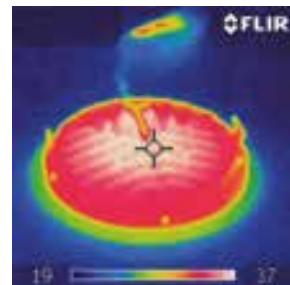
Hat

Instalación	Installation	Empotrado a techo Ceiling recessed
Difusor	Difusser	○
Fuente de luz	Light source	LED
Seguridad fotobiológica UGR	Photobiological safety UGR	0 —
Flickering <15%	Flickering <15%	✓
CRI	CRI	80-90
Elipse de Macadam	Macadam Ellipse	3
Ángulo de apertura	Opening angle	83,4
Potencia (W)	Power (W)	20,5W
Temperatura	Temperature	3000/4000
Lúmenes	Lumens	2300/2400
Factor de potencia	Power factor	0,95
Rendimiento	Performance	75
Vida útil Led	Useful live Led	50000
Vida útil driver	Useful live driver	>50000
Expectativa	Expectation	L70F10
Led sustituible Zhaga	Zhaga replaceable Led	✓
Ciclos de encendido	ON/OFF Cycles	120000
DALI	DALI	✓
Funcionamiento continuado 24h	Continuous Operation (24h)	✓
Electronica Independiente	Independent Electronic	✓
IP	IP	44
Clase	Class	III
Peso (Kg)	Weight (Kg)	0,5
Escotadura ideal	Ideal recess	210
Rango escotadura	Diameter range	ø200-225

○ Opal diffuser
Difusor opal



Hat Q	Hat Mini	Hat Mini Q	Hat S
Empotrado a techo Ceiling recessed	Empotrado a techo Ceiling recessed	Empotrado a techo Ceiling recessed	Ceiling surface mounting Adosado a techo
○	○	○	○
LED	LED	LED	LED
0 — ✓ 80-90 3 83,4	1 — ✓ 80-90 4 83,4	1 — ✓ 80-90 4 83,4	0 — ✓ 80-90 3 83,4
20,5W 3000/4000 2300/2400 0,95 75 50000 >50000 L70F11 ✓ 120000 ✓	13W 3000/4000 1440/1500 0,95 75 50000 >50000 L70F12 ✓ 120000 ✓	13W 3000/4000 1440/1500 0,95 75 50000 >50000 L70F13 ✓ 120000 ✓	22,5W 3000/4000 2300/2400 0,95 75 50000 >50000 L70F14 ✓ 120000 —
✓ ✓	✓ ✓	✓ ✓	✓ ✓
44 III 0,5 210 ø200-225	44 III 0,3 135 ø125-150	44 III 0,3 135 ø125-150	30 III 1 — —



HAT is the latest generation of downlights LED. With only 44 mm of height and performance nearly 80% is able to reach 2400 lumens, something unusual in downlights of this nature. Extra slim, high technical quality downlight, ideal for installation in low or drop ceiling.

Features:

- High light efficiency
- Possibility of DALI control
- Long life
- Possibility of customization

Hat es la última generación de Dowlights Led. Con solo 44 mm de altura y un rendimiento cercano al 80% es capaz de llegar a los 2400 lúmenes, algo impensable en downlights de esta naturaleza. Un downlight extraplano de alta calidad técnica, ideal para instalarse en techos bajos o falsos techos.

Características:

- Alta eficiencia lumínica
- Posibilidad de control DALI
- Larga vida útil
- Posibilidad de personalización

Hat



Ceiling recessed
Empotrado a techo



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)
75 | Performance
Rendimiento
50.000 L70F10 | Useful life
Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

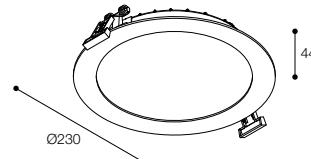


Minimum ceiling installation distance
Distancia mínima de instalación a techo
94

Ideal recess
Escotadura ideal
Ø210

Diameter range
Rango de escotadura
Ø200-225

Colour Color
B
G
N

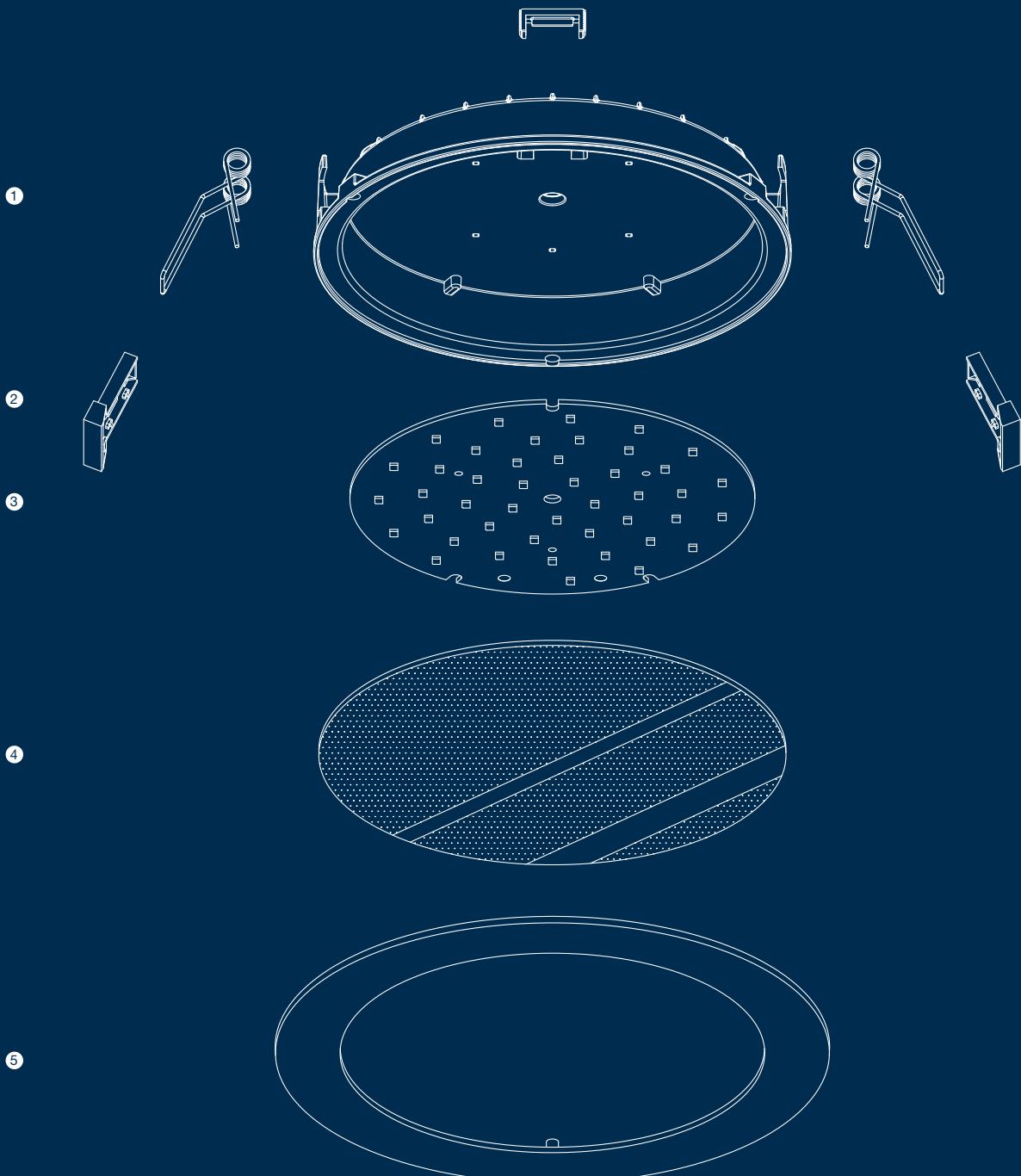


① Heat sink integrated
in the housing,
increases the useful life
Disipador integrado
en la envolvente, alarga
la vida útil

② Led PCB plate which
improves thermal
dissipation
Placa Led PCB, mejora
la disipación térmica

③ Microprismatic diffuser for
a better performance of
the light output
Difusor Micropíramático,
aprovechamiento del flujo
luminoso





1
Heat Sink
Cuerpo disipador

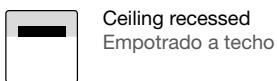
2
Fixing clamps
Grapas de sujeción

3
SMD Led board
Placa Led PCB

4
Microprismatic diffuser
Difusor Microprismático

5
Customizable ring
Aro personalizable

Hat

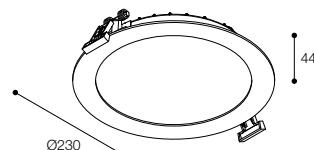


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

75 | Performance
Rendimiento

95° | Opening angle
Ángulo de apertura

50.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N

Minimum ceiling installation distance
Distancia mínima de instalación a techo

94

Ideal recess
Escotadura ideal

Ø210

Diameter range
Rango de escotadura

Ø200-225

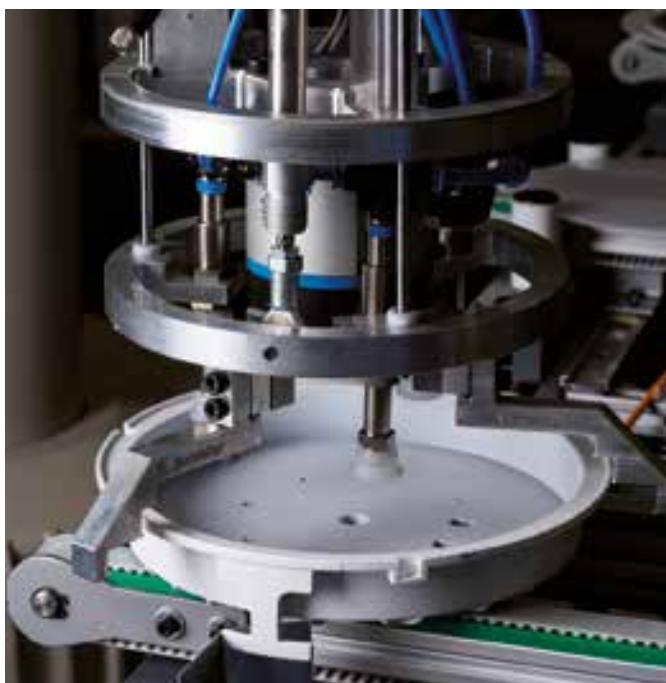


	W	K	LUMEN	IP
--	---	---	-------	----

EH23	1x20,5W	3000	2300 lm	44
EH24	1x20,5W	4000	2400 lm	44

EH23D	1x20,5W	3000	2300 lm	44
EH24D	1x20,5W	4000	2400 lm	44

EH23			EH24		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,89	3013	0,5	0,89	3287
1,0	1,79	753	1,0	1,79	822
1,5	2,68	335	1,5	2,68	365
2,0	3,58	188	2,0	3,58	205
2,5	4,47	121	2,5	4,47	131
3,0	5,36	84	3,0	5,36	91
CO-C180 83,6°			CO-C180 83,6°		
LO (lm) 1727,3			LO (lm) 1802,4		
E (lm/W) 76,7			E (lm/W) 80,1		
P (W) 22,5			P (W) 22,5		



Hat Q



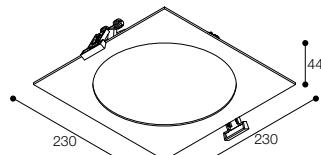
Ceiling recessed
Empotrado a techo



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

75 | Performance
Rendimiento

50.000 | Useful life
L70F10 Vida útil



Minimum ceiling installation distance
Distancia mínima de instalación a techo

94

Ideal recess
Escotadura ideal
Ø210



Diameter range
Rango de escotadura
Ø200-225

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

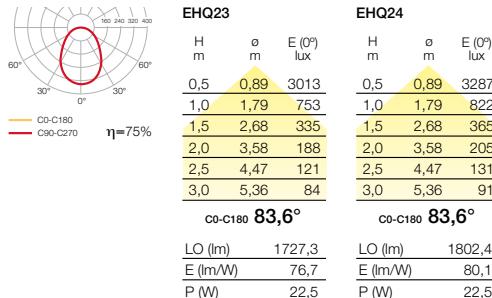


Ref. + B,G,N



	W	K	LUMEN	IP
EHQ23	1x20,5W	3000	2300 lm	44
EHQ24	1x20,5W	4000	2400 lm	44

	W	K	LUMEN	IP
EHQ23D	1x20,5W	3000	2300 lm	44
EHQ24D	1x20,5W	4000	2400 lm	44



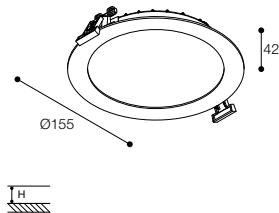
Hat Mini

 Ceiling recessed
Empotrado a techo

1 Photobiological Safety
Seguridad Fotobiológica



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
75	Performance Rendimiento
50.000	Useful life Vida útil L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Ideal recess
Escotadura ideal

Ø135

Colour Color



Ref. + B,G,N



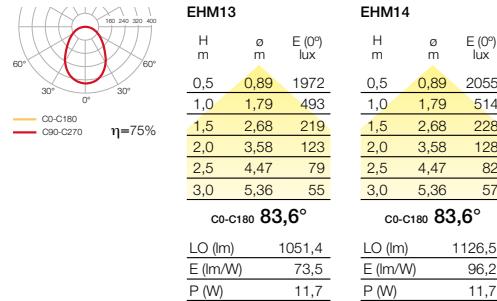
Minimum ceiling installation distance

Distancia mínima de instalación a techo

94

	W	K	LUMEN	IP
EHM13	1x10,6W	3000	1400 lm	44
EHM14	1x10,6W	4000	1500 lm	44

	W	K	LUMEN	IP
EHM13D	1x10,6W	3000	1400 lm	44
EHM14D	1x10,6W	4000	1500 lm	44



Hat Mini Q

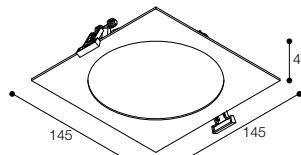
Ceiling recessed
Empotrado a techo



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

75 | Performance
Rendimiento

50.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



Minimum ceiling installation distance
Distancia mínima de instalación a techo

94

Ideal recess
Escotadura ideal

Ø135



Diameter range
Rango de escotadura

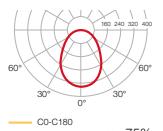
Ø125-150



		W	K	LUMEN	IP
	EHMQ13 B,G,N	1x10,6W	3000	1400 lm	44
	EHMQ14 B,G,N	1x10,6W	4000	1500 lm	44



	EHMQ13D B,G,N	1x10,6W	3000	1400 lm	44
	EHMQ14D B,G,N	1x10,6W	4000	1500 lm	44



EHMQ13

H m	ø m	E (0°) lux
0,5	0,89	1972
1,0	1,79	493
1,5	2,68	219
2,0	3,58	123
2,5	4,47	79
3,0	5,36	55

co-c180 83,6°

LO (lm)	1051,4
E (lm/W)	73,5
P (W)	11,7

EHMQ14

H m	ø m	E (0°) lux
0,5	0,89	2055
1,0	1,79	514
1,5	2,68	228
2,0	3,58	128
2,5	4,47	82
3,0	5,36	57

co-c180 83,6°

LO (lm)	1081,4
E (lm/W)	75,6
P (W)	11,7

Hat S



Ceiling surface mounting
Adosado a techo

NEW

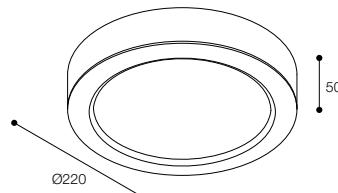
0 Photobiological Safety
Seguridad Fotobiológica



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

75 | Performance
Rendimiento

50.000 | Useful life
Vida útil
L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

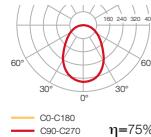


Ref. + B,G,N



Minimum ceiling installation distance
Distancia mínima de instalación a techo
94

	W	K	LUMEN	IP
LED EHS23	1x22,5W	3000	2300 lm	30
LED EHS24	1x22,5W	4000	2400 lm	30



EHS23

H m	ø m	E (0°) lux
0,5	0,89	3013
1,0	1,79	753
1,5	2,68	335
2,0	3,58	188
2,5	4,47	121
3,0	5,36	84

CO-C180 83,6°

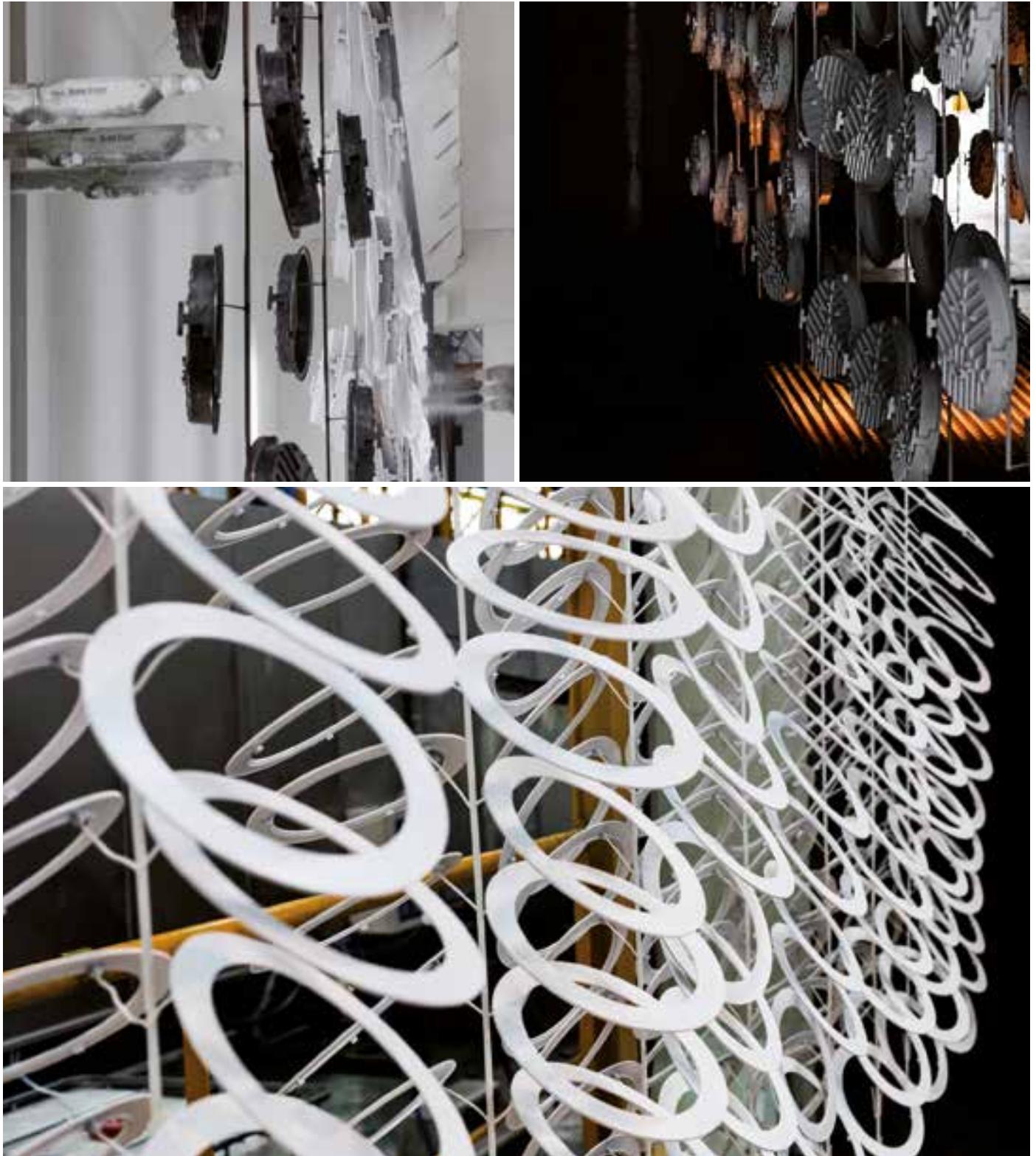
LO (lm)	1727,3
E (lm/W)	76,7
P (W)	22,5

EHS24

H m	ø m	E (0°) lux
0,5	0,89	3287
1,0	1,79	822
1,5	2,68	365
2,0	3,58	205
2,5	4,47	131
3,0	5,36	91

CO-C180 83,6°

LO (lm)	1802,4
E (lm/W)	80,1
P (W)	22,5



Whole production process carried out in our premises
Desarrollo propio de todo el proceso productivo



Tiny

Tiny is a swiveling downlight reduced in size. Its high efficiency allows remarkable savings.

Tiny es un downlight orientable de reducido tamaño. Su alta eficiencia permite ahorros sorprendentes.

Tiny



Ceiling recessed
Empotrado a techo

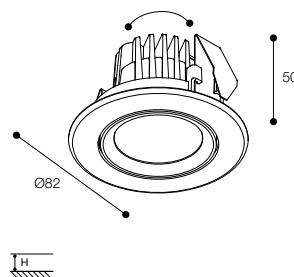
NEW



0,90 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

91 | Performance
Rendimiento

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



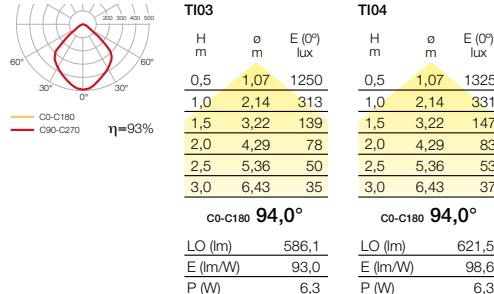
Minimum ceiling installation distance
Distancia mínima de instalación a techo

94

Ideal recess
Escotadura ideal

Ø70

			W	K	LUMEN	IP
LED	TI03	B,G,N	1x5,8W	3000	631 lm	20
LED	TI04	B,G,N	1x5,8W	4000	669 lm	20





Dorfin

Dorfin is a rounded swiveling downlight. It is entirely built in casting aluminium and reflector made with high reflexion technical polycarbonate. With separate electrical equipment allows 85° tilt and 355° rotation.

Dorfin es un downlight orientable de formato redondo. Está íntegramente construido en aluminio de fundición y el reflector es de policarbonato técnico de alta reflexión. Con equipo eléctrico independiente permite una basculación de 85° y un giro de 355°.



Dorfin

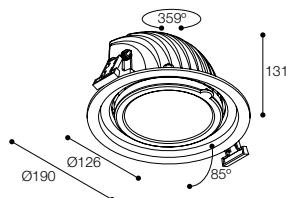


Ceiling recessed
Empotrado a techo

NEW



0,90	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
91	Performance Rendimiento
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



Minimum ceiling installation distance
Distancia mínima de instalación a techo

180

Ideal recess
Escotadura ideal

Ø175

Opal diffuser
Difusor opal



	W	K	LUMEN	IP
D230	1x16,3W	3000	1875 lm	44
D240	1x16,3W	4000	2000 lm	44
D330	1x22,5W	3000	2600 lm	44
D340	1x22,5W	4000	2800 lm	44
D430	1x25W	3000	3500 lm	44
D440	1x25W	4000	3800 lm	44

LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

DBO	1x21W	3000	1785 lm	44
DFO	1x21W	4000	1848 lm	44
DMO	1x21W	2000	1428 lm	44

	D230			D240			D330		
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
CD-C180	0,5	0,52	5105	0,5	0,52	5445	0,5	0,52	7079
C90-C270	1,0	1,04	1276	1,0	1,04	1361	1,0	1,04	1770
$\eta=86\%$	1,5	1,56	567	1,5	1,56	605	1,5	1,56	787
	2,0	2,07	319	2,0	2,07	340	2,0	2,07	442
	2,5	2,59	204	2,5	2,59	218	2,5	2,59	283
	3,0	3,11	142	3,0	3,11	151	3,0	3,11	197
CO-C180	54,8°			54,8°			54,8°		
LO (lm)	1614,3			LO (lm)	1722,0		LO (lm)	2238,6	
E (lm/W)	89,6			E (lm/W)	95,6		E (lm/W)	90,4	
P (W)	18,0			P (W)	18,0		P (W)	24,7	

	D340			D430			D440		
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
CD-C180	0,5	0,52	7624	0,5	0,52	9529	0,5	0,52	10346
C90-C270	1,0	1,04	1906	1,0	1,04	2382	1,0	1,04	2587
$\eta=86\%$	1,5	1,56	847	1,5	1,56	1059	1,5	1,56	1150
	2,0	2,07	476	2,0	2,07	596	2,0	2,07	647
	2,5	2,59	305	2,5	2,59	381	2,5	2,59	414
	3,0	3,11	212	3,0	3,11	265	3,0	3,11	287
CO-C180	54,8°			54,8°			54,8°		
LO (lm)	2410,8			LO (lm)	3013,5		LO (lm)	3271,8	
E (lm/W)	97,4			E (lm/W)	109,5		E (lm/W)	118,9	
P (W)	24,7			P (W)	27,5		P (W)	27,5	



 Transparent diffuser
Difusor transparente

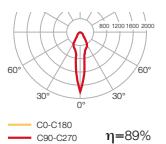


	W	K	LUMEN	IP
 D23S	1x16,3W	3000	1875 lm	44
 D24S	1x16,3W	4000	2000 lm	44
 D33S	1x22,5W	3000	2600 lm	44
 D34S	1x22,5W	4000	2800 lm	44
 D43S	1x25W	3000	3500 lm	44
 D44S	1x25W	4000	3800 lm	44

LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

 DBS	1x21W	3000	1785 lm	44
 DFS	1x21W	4000	1848 lm	44
 DMS	1x21W	2000	1428 lm	44



D23S			D24S			D33S		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,15	13477	0,5	0,15	14376	0,5	0,15	18689
1,0	0,29	3369	1,0	0,29	3594	1,0	0,29	4672
1,5	0,44	1497	1,5	0,44	1597	1,5	0,44	2077
2,0	0,58	842	2,0	0,58	898	2,0	0,58	1168
2,5	0,73	539	2,5	0,73	575	2,5	0,73	748
3,0	0,88	374	3,0	0,88	399	3,0	0,88	519
CO-C180 16,6°			CO-C180 16,6°			CO-C180 16,6°		
LO (lm)	1683,7	LO (lm)	1796,0	LO (lm)	2334,8			
E (lm/W)	93,5	E (lm/W)	99,7	E (lm/W)	94,3			
P (W)	18,0	P (W)	18,0	P (W)	24,7			

D34S

D43S

D44S

D34S			D43S			D44S		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,15	20156	0,5	0,15	25158	0,5	0,15	27314
1,0	0,29	5032	1,0	0,29	6289	1,0	0,29	6829
1,5	0,44	2236	1,5	0,44	2795	1,5	0,44	3035
2,0	0,58	1258	2,0	0,58	1572	2,0	0,58	1707
2,5	0,73	805	2,5	0,73	1006	2,5	0,73	1093
3,0	0,88	559	3,0	0,88	699	3,0	0,88	759
CO-C180 16,6°			CO-C180 16,6°			CO-C180 16,6°		
LO (lm)	2514,4	LO (lm)	3143,0	LO (lm)	3412,4			
E (lm/W)	101,5	E (lm/W)	114,2	E (lm/W)	124,0			
P (W)	24,7	P (W)	27,5	P (W)	27,5			

Dorfin Q



Ceiling recessed
Empotrado a techo

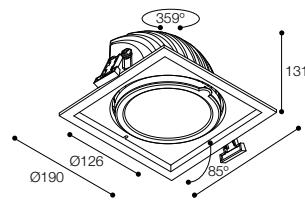
NEW



Opal diffuser
Difusor opal



0,90	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
91	Performance Rendimiento
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



Minimum ceiling installation distance

Distancia mínima de instalación a techo

150

Ideal recess
Escotadura ideal

175x175



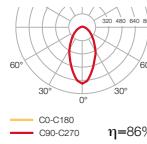
	W	K	LUMEN	IP
DQ23O	1x16,3W	3000	1875 lm	44
DQ24O	1x16,3W	4000	2000 lm	44
DQ33O	1x22,5W	3000	2600 lm	44
DQ34O	1x22,5W	4000	2800 lm	44
DQ43O	1x25W	3000	3500 lm	44
DQ44O	1x25W	4000	3800 lm	44

LEDS FOOD

Special colour temperature for food

Temperaturas de color especiales para alimentación

DQBO	1x21W	3000	1785 lm	44
DQFO	1x21W	4000	1848 lm	44
DQMO	1x21W	2000	1428 lm	44



DQ23O

H
m

ø
m

E (0°)
lux

0,5	0,52	5105
1,0	1,04	1276
1,5	1,56	567
2,0	2,07	319
2,5	2,59	204
3,0	3,11	142

CO-C180 54,8°

LO (lm)

1614,3

E (lm/W)

89,6

P (W)

18,0

DQ24O

H
m

ø
m

E (0°)
lux

0,5	0,52	5445
1,0	1,04	1361
1,5	1,56	605
2,0	2,07	340
2,5	2,59	218
3,0	3,11	151

CO-C180 54,8°

LO (lm)

1722,0

E (lm/W)

95,6

P (W)

18,0

DQ33O

H
m

ø
m

E (0°)
lux

0,5	0,52	7079
1,0	1,04	1770
1,5	1,56	787
2,0	2,07	442
2,5	2,59	283
3,0	3,11	197

CO-C180 54,8°

LO (lm)

2238,6

E (lm/W)

90,4

P (W)

24,7

DQ34O

H
m

ø
m

E (0°)
lux

0,5	0,52	10346
1,0	1,04	2587
1,5	1,56	1150
2,0	2,07	647
2,5	2,59	414
3,0	3,11	287

CO-C180 54,8°

LO (lm)

2410,8

E (lm/W)

97,4

P (W)

24,7

DQ43O

H
m

ø
m

E (0°)
lux

0,5	0,52	10346
1,0	1,04	2587
1,5	1,56	1150
2,0	2,07	647
2,5	2,59	414
3,0	3,11	287

CO-C180 54,8°

LO (lm)

3013,5

E (lm/W)

109,5

P (W)

27,5

DQ44O

H
m

ø
m

E (0°)
lux

0,5	0,52	3271,8
1,0	1,04	2587
1,5	1,56	1150
2,0	2,07	647
2,5	2,59	414
3,0	3,11	287

CO-C180 54,8°

LO (lm)

3271,8

E (lm/W)

118,9

P (W)

27,5

Dorfin Q

 Transparent diffuser
Difusor transparente

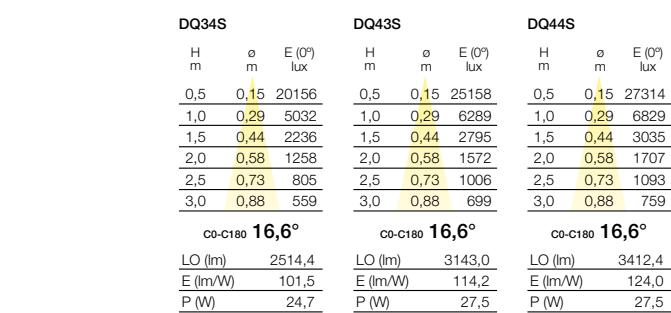
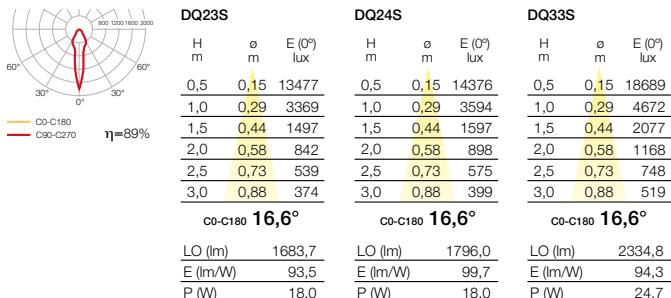


	W	K	LUMEN	IP
 DQ23S	1x16,3W	3000	1875 lm	44
 DQ24S	1x16,3W	4000	2000 lm	44
 DQ33S	1x22,5W	3000	2600 lm	44
 DQ34S	1x22,5W	4000	2800 lm	44
 DQ43S	1x25W	3000	3500 lm	44
 DQ44S	1x25W	4000	3800 lm	44

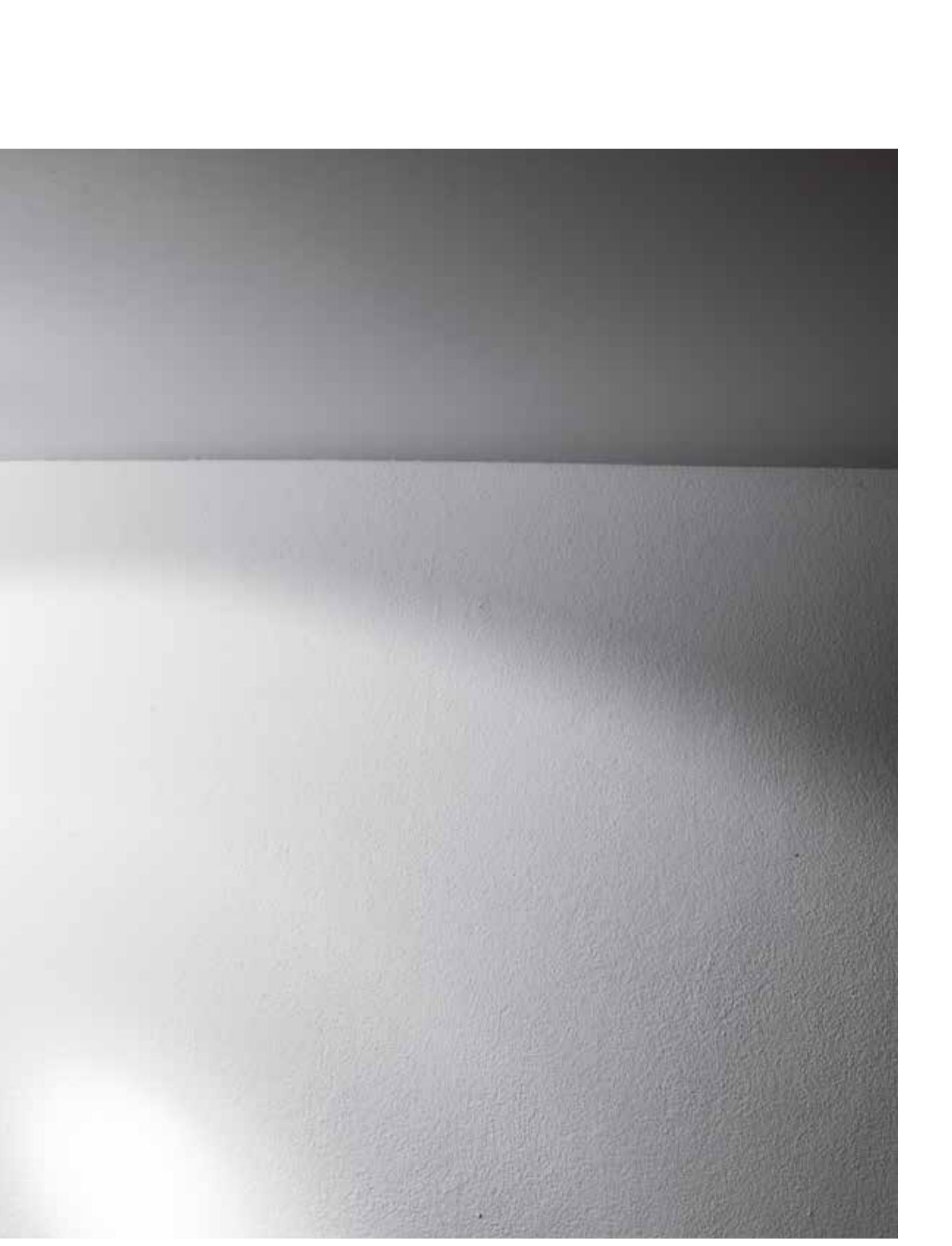
LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

 DQBS	1x21W	3000	1785 lm	44
 DQFS	1x21W	4000	1848 lm	44
 DQMS	1x21W	2000	1428 lm	44









Oqio



OQIO fitting is specially designed to combine a high light efficiency together with a visual comfort for any application. Oqio is manufactured in three pieces (high bright aluminum reflector, polycarbonate diffuser and galvanized sheet steel body) assembled with no tools which allows a fast installation and maintenance. Able for 60w T5 Circular lamps. With two installation versions: suspended or ceiling/wall mounted.

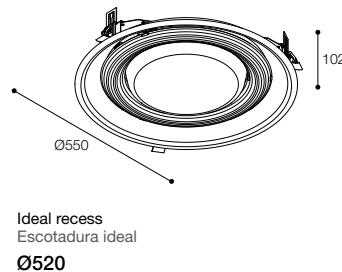
La luminaria OQIO está específicamente diseñada para conjugar la alta eficiencia lumínica con el confort visual para cualquier aplicación. Oqio está construido en tres piezas (reflector de aluminio de alto brillo, difusor de policarbonato y cuerpo de chapa galvanizada) ensambladas entre sí sin necesidad de herramientas, permite una instalación y mantenimiento sumamente ágil. Válida para tubo T5 Circular de 60w. Dispone de dos versiones de empotramiento, para escayola y para techo modular.

Ogio

 Ceiling recessed
Empotrado a techo



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
80,6	Performance Rendimiento
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura



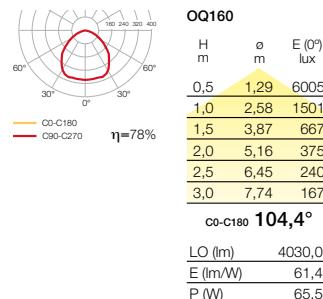
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

 Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

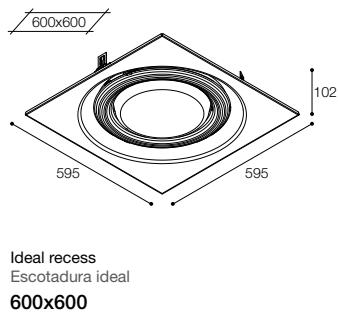


	W	K	LUMEN	IP
OQ160	1x60W	4000	5000 lm	20





0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
80,6	Performance Rendimiento
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura



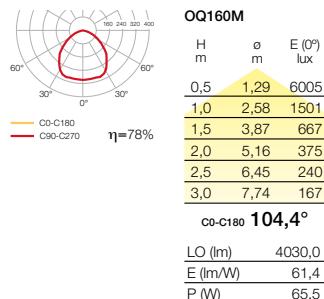
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
1-10V Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP
OQ160M	1x60W	4000	5000 lm	20



Ogio Led



Ceiling recessed
Empotrado a techo

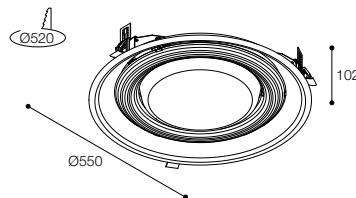
NEW



0,90 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

72 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Ideal recess
Escotadura ideal
Ø520

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP
LED OQ53	1x40W	3000	5000 lm	20
LED OQ54	1x40W	4000	5000 lm	20



OQ53			OQ54		
H	ϕ	E (0°)	H	ϕ	E (0°)
0,5	1,29	6005	0,5	1,29	6005
1,0	2,58	1501	1,0	2,58	1501
1,5	3,87	667	1,5	3,87	667
2,0	5,16	375	2,0	5,16	375
2,5	6,45	240	2,5	6,45	240
3,0	7,74	167	3,0	7,74	167
co-c180 104,4°			co-c180 104,4°		
LO (lm)			LO (lm)		
E (lm/W)			E (lm/W)		
P (W)			P (W)		



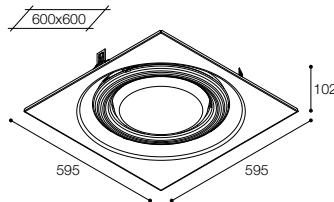
Oqio Led



0,90 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

72 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

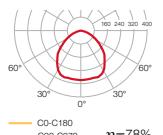
Ideal recess
Escotadura ideal
600x600

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP
OQ53M	1x40W	3000	5000 lm	20
OQ54M	1x40W	4000	5000 lm	20



OQ53M			OQ54M		
H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
0,5	1,29	6005	0,5	1,29	6005
1,0	2,58	1501	1,0	2,58	1501
1,5	3,87	667	1,5	3,87	667
2,0	5,16	375	2,0	5,16	375
2,5	6,45	240	2,5	6,45	240
3,0	7,74	167	3,0	7,74	167
co-c180 104,4°			co-c180 104,4°		
LO (lm)			LO (lm)		
E (lm/W)			E (lm/W)		
P (W)			P (W)		

Cyre



CYRE is a lighting system based on a cylindrical extruded aluminium profile. Suspended from the ceiling illuminate and decorate the room. It is remarkable the reflector made with high reflexion technical polycarbonate.

CYRE es una familia de luminarias basadas en un perfil de aluminio extruido de corte cilíndrico. Suspendidas del techo iluminan y decoran la sala. Cabe destacar el reflector facetado de policarbonato técnico de alta reflexión.



Cyre



Ceiling Suspended mounting
Suspendido a techo

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**



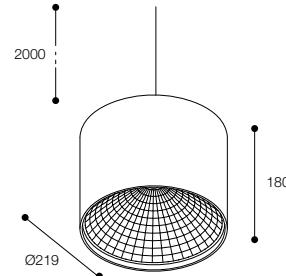
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

95,4 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

98° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10
Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

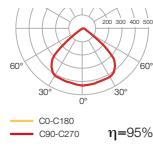
Colour Color



Ref. + B,G,N



	W	K	LUMEN	IP
[LED] CYL23	1x16,3W	3000	1875 lm	20
[LED] CYL24	1x16,3W	4000	2000 lm	20



CYL23			CYL24		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18	3132	0,5	1,18	3480
1,0	2,36	783	1,0	2,36	870
1,5	3,54	348	1,5	3,54	387
2,0	4,72	196	2,0	4,72	218
2,5	5,90	125	2,5	5,90	139
3,0	7,07	87	3,0	7,07	97

CO-C180 99,4°

LO (lm)	1788,7
E (lm/W)	99,3
P (W)	18,0

CO-C180 99,4°

LO (lm)	1908,0
E (lm/W)	106,0
P (W)	18,0

Cyre Micro

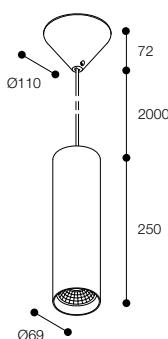


Ceiling Suspended mounting
Suspendido a techo

1	Photobiological Safety Seguridad Fotobiológica	19
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0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
92,9	Performance Rendimiento
19	Glare index Índice de deslumbramiento
94°	Opening angle Ángulo de apertura
60.000	Useful life L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

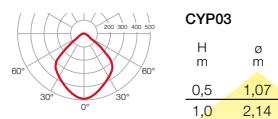
Colour Color



Ref. + B,G,N

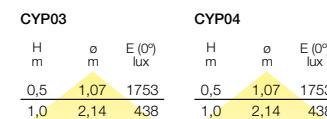


	W	K	LUMEN	IP
CYP03	1x6,4W	3000	885 lm	20
CYP04	1x6,4W	3000	885 lm	20



C0-C180 94,0°

LO (lm)	822,1
E (lm/W)	117,4
P (W)	7,0



C0-C180 94,0°

LO (lm)	822,1
E (lm/W)	117,4
P (W)	7,0







Pendulares



PENDULAR is a suspended fittings range especially designed for installing in places with high ceilings and wide spaces. Extruded and anodized aluminium body. The set is completed by two different types of reflectors, in anodized aluminium or Lexalon. There are plastic and glass covers. Available for (HIT) metal halide, LED and standard lamps.

PENDULAR es una gama de luminarias suspendidas especialmente diseñada para su instalación en locales de grandes alturas y amplios espacios. Cuerpo de aluminio extruido y anodizado. El conjunto se completa con dos diferentes tipos de reflectores, en aluminio anodizado o Lexalon. Dispone de cierres en plástico y cristal. Permite incorporar lámparas de descarga (HIT), LED y estándar.

Pendulares



Ceiling Suspended mounting
Suspendido a techo

Lexalon reflector
Reflector acrílico

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**



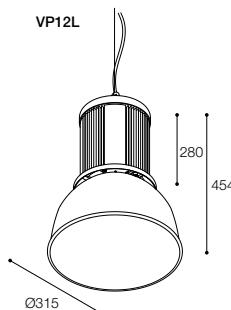
LED

0,95 | Power factor (cos φ)
Factor de potencia (cos φ)

92,5 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

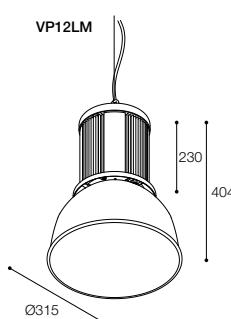
60.000 | Useful life
L₇₀F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



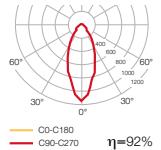
	W	K	LUMEN	IP
VP12L23	1x16,3W	3000	1875 lm	20
VP12L24	1x16,3W	4000	2000 lm	20
VP12L33	1x26,2W	3000	2800 lm	20
VP12L34	1x26,2W	4000	3000 lm	20
VP12L43	1x35W	3000	3700 lm	20
VP12L44	1x35W	4000	4000 lm	20
VP12L53	1x35,4W	3000	4800 lm	20
VP12L54	1x35,4W	4000	5000 lm	20

LEDS FOOD

Special colour temperature for food

Temperaturas de color especiales para alimentación

VP12LB	1x31,1W	3000	2420 lm	20
VP12LF	1x31,1W	4000	2530 lm	20
VP12LM	1x31,1W	2000	1885 lm	20



VP12L43		
H m	ø m	E (0°) lux
0,5	0,37	16974
1,0	0,75	4243
1,5	1,12	1886
2,0	1,50	1061
2,5	1,87	679
3,0	2,24	471
CO-C180 41,0°		
LO (lm)	3422,5	
E (lm/W)	88,8	
P (W)	38,5	

VP12L44		
H m	ø m	E (0°) lux
0,5	0,37	18350
1,0	0,75	4587
1,5	1,12	2039
2,0	1,50	1147
2,5	1,87	734
3,0	2,24	510
CO-C180 41,0°		
LO (lm)	3700,0	
E (lm/W)	96,1	
P (W)	38,5	

VP12L53		
H m	ø m	E (0°) lux
0,5	0,37	22020
1,0	0,75	5505
1,5	1,12	2447
2,0	1,50	1376
2,5	1,87	881
3,0	2,24	612
CO-C180 41,0°		
LO (lm)	4440,0	
E (lm/W)	113,8	
P (W)	39,0	

VP12L23			VP12L24			VP12L33			VP12L34		
H m	ø m	E (0°) lux									
0,5	0,37	8257	0,5	0,37	9175	0,5	0,37	12845	0,5	0,37	13762
1,0	0,75	2064	1,0	0,75	2294	1,0	0,75	3211	1,0	0,75	3441
1,5	1,12	917	1,5	1,12	1019	1,5	1,12	1427	1,5	1,12	1529
2,0	1,50	516	2,0	1,50	573	2,0	1,50	803	2,0	1,50	860
2,5	1,87	330	2,5	1,87	367	2,5	1,87	514	2,5	1,87	550
3,0	2,24	229	3,0	2,24	255	3,0	2,24	357	3,0	2,24	382
CO-C180 41,0°			CO-C180 41,0°			CO-C180 41,0°			CO-C180 41,0°		
LO (lm)	1734,3		LO (lm)	1850,0		LO (lm)	2590,0		LO (lm)	2775,0	
E (lm/W)	96,3		E (lm/W)	102,7		E (lm/W)	90,8		E (lm/W)	97,3	
P (W)	18,0		P (W)	18,0		P (W)	28,5		P (W)	28,5	

VP12L54			VP12LB			VP12LF			VP12LM		
H m	ø m	E (0°) lux									
0,5	0,37	22937	0,5	0,25	13297	0,5	0,25	13901	0,5	0,25	10357
1,0	0,75	5734	1,0	0,50	3324	1,0	0,50	3475	1,0	0,50	2589
1,5	1,12	2549	1,5	0,75	1477	1,5	0,75	1545	1,5	0,75	1151
2,0	1,50	1434	2,0	1,00	831	2,0	1,00	869	2,0	1,00	647
2,5	1,87	532	2,5	1,25	369	2,5	1,25	556	2,5	1,25	414
3,0	2,24	637	3,0	1,50	369	3,0	1,50	386	3,0	1,50	288
CO-C180 28,0°			CO-C180 28,0°			CO-C180 28,0°			CO-C180 28,0°		
LO (lm)	2238,5		LO (lm)	2340,2		LO (lm)	1743,6		LO (lm)	1743,6	
E (lm/W)	65,4		E (lm/W)	68,4		E (lm/W)	50,9		E (lm/W)	50,9	
P (W)	34,2		P (W)	34,2		P (W)	34,2		P (W)	34,2	



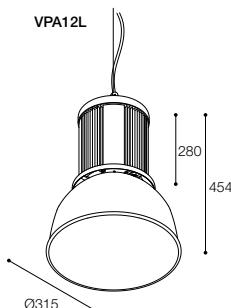
Pendulares



Ceiling Suspended mounting
Suspendido a techo



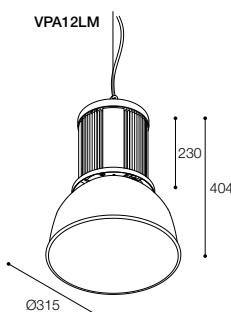
0,95	Power factor (cos φ) Factor de potencia (cos φ)
76	Performance Rendimiento
19	Glare index Índice de deslumbramiento
60.000	Useful life Vida útil L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Aluminium reflector
Reflector de aluminio



	W	K	LUMEN	IP
[LED] VPA12L23	1x16,3W	3000	1875 lm	20
[LED] VPA12L24	1x16,3W	4000	2000 lm	20
[LED] VPA12L33	1x26,2W	3000	2800 lm	20
[LED] VPA12L34	1x26,2W	4000	3000 lm	20
[LED] VPA12L43	1x35W	3000	3700 lm	20
[LED] VPA12L44	1x35W	4000	4000 lm	20
[LED] VPA12L53	1x35,4W	3000	4800 lm	20
[LED] VPA12L54	1x35,4W	4000	5000 lm	20

LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

[LED] VPA12LB	1x31,1W	3000	2420 lm	20
[LED] VPA12LF	1x31,1W	4000	2530 lm	20
[LED] VPA12LM	1x31,1W	2000	1885 lm	20

Pendulares

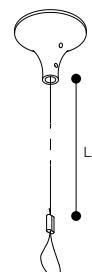
VPA12L23			VPA12L24			VPA12L33			VPA12L34		
H m	ø m	E (0°) lux									
0,5	0,25	9890	0,5	0,25	10989	0,5	0,25	15385	0,5	0,25	16484
1,0	0,50	2473	1,0	0,50	2747	1,0	0,50	3846	1,0	0,50	4121
1,5	0,75	1099	1,5	0,75	1221	1,5	0,75	1709	1,5	0,75	1832
2,0	1,00	618	2,0	1,00	687	2,0	1,00	962	2,0	1,00	1030
2,5	1,25	396	2,5	1,25	440	2,5	1,25	615	2,5	1,25	659
3,0	1,50	275	3,0	1,50	305	3,0	1,50	427	3,0	1,50	458
co-C180 28,0°			co-C180 28,0°			co-C180 28,0°			co-C180 28,0°		
LO (lm)	1425,9		LO (lm)	1521,0		LO (lm)	2129,4		LO (lm)	2281,5	
E (lm/W)	79,2		E (lm/W)	84,5		E (lm/W)	74,7		E (lm/W)	80,0	
P (W)	18,0		P (W)	18,0		P (W)	28,5		P (W)	28,5	
VPA12L43			VPA12L44			VPA12L53			VPA12L54		
H m	ø m	E (0°) lux									
0,5	0,25	20330	0,5	0,25	21978	0,5	0,25	26374	0,5	0,25	13297
1,0	0,50	5082	1,0	0,50	5495	1,0	0,50	6593	1,0	0,50	3324
1,5	0,75	2259	1,5	0,75	2442	1,5	0,75	2930	1,5	0,75	1477
2,0	1,00	1271	2,0	1,00	1374	2,0	1,00	1648	2,0	1,00	831
2,5	1,25	813	2,5	1,25	879	2,5	1,25	1055	2,5	1,25	532
3,0	1,50	565	3,0	1,50	611	3,0	1,50	733	3,0	1,50	369
co-C180 28,0°			co-C180 28,0°			co-C180 28,0°			co-C180 28,0°		
LO (lm)	2813,8		LO (lm)	3042,0		LO (lm)	3650,4		LO (lm)	3802,5	
E (lm/W)	73,0		E (lm/W)	79,0		E (lm/W)	93,6		E (lm/W)	97,5	
P (W)	38,5		P (W)	38,5		P (W)	39,0		P (W)	39,0	
VPA12LF			VPA12LM			VPA12LB			VPA12LF		
H m	ø m	E (0°) lux									
0,5	0,25	13901	0,5	0,25	10357	0,5	0,25	13901	0,5	0,25	10357
1,0	0,50	3475	1,0	0,50	2589	1,0	0,50	3475	1,0	0,50	1151
1,5	0,75	1545	1,5	0,75	1477	1,5	0,75	1545	2,0	1,00	647
2,0	1,00	869	2,0	1,00	831	2,0	1,00	869	2,5	1,25	414
2,5	1,25	556	2,5	1,25	532	2,5	1,25	556	3,0	1,50	288
3,0	1,50	386	3,0	1,50	369	3,0	1,50	386	3,0	1,50	288
co-C180 28,0°			co-C180 28,0°			co-C180 28,0°			co-C180 28,0°		
LO (lm)	1924,0		LO (lm)	1433,5		LO (lm)	1924,0		LO (lm)	1433,5	
E (lm/W)	56,2		E (lm/W)	41,9		E (lm/W)	56,2		E (lm/W)	41,9	
P (W)	34,2		P (W)	34,2		P (W)	34,2		P (W)	34,2	

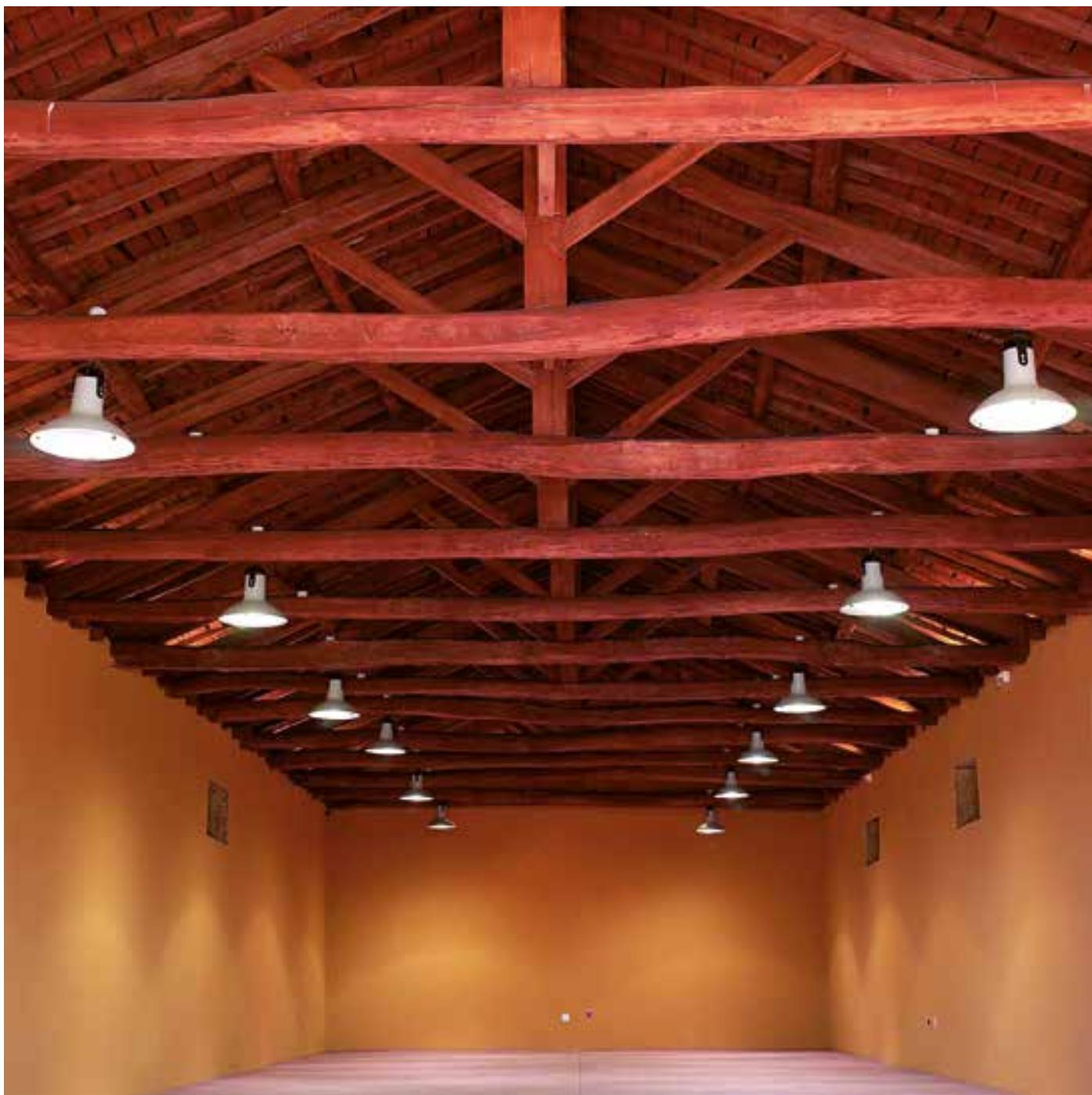
ACCESORIES ACCESORIOS

Suspension accessory
Accesorio de suspensión

1027 4
1028 2

L (m)





Pagoda

PAGODA fittings are LED suspended downlights. They consist of an exterior bevelled aluminium body in whose interior the second reflector and the ballast is located. A tempered glass closes the set. Suspended by cable. They adapt themselves to different applications due to their bright light and big chromatic loyalty.

Las luminarias PAGODA son downlights suspendidos LED. Constan de un cuerpo exterior de aluminio repulsado en cuyo interior está alojado un segundo reflector y el equipo eléctrico. Un vidrio templado cierra el conjunto. El montaje se realiza con cable metálico. Se adaptan a diferentes aplicaciones por su luz brillante y de gran fidelidad cromática.

Pagoda



Ceiling Suspended mounting
Suspendido a techo



Concentric diffuser
Difusor concéntrico

0 Photobiological Safety
Seguridad Fotobiológica

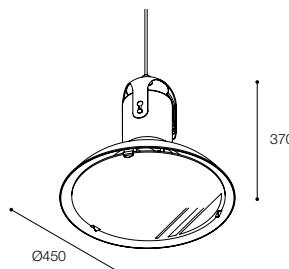


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

89,2 | Performance
Rendimiento

94° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil
L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



G

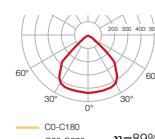


	W	K	LUMEN	IP
[LED] VG33	1x26,2W	3000	2800 lm	20
[LED] VG34	1x26,2W	4000	3000 lm	20
[LED] VG43	1x35W	3000	3700 lm	20
[LED] VG44	1x35W	4000	4000 lm	20

LEDS FOOD

Special colour temperature for food
Temperaturas de color especiales para alimentación

[LED] VGB	1x31,1W	3000	2420 lm	20
[LED] VGF	1x31,1W	4000	2530 lm	20
[LED] VGM	1x31,1W	2000	1885 lm	20



VG33

H m	ø m	E (0°) lux
0,5	1,07	4529
1,0	2,14	1132
1,5	3,22	503
2,0	4,29	283
2,5	5,36	181
3,0	6,43	126

co-C180 94,0°

LO (lm)
2497,6
E (lm/W)

28,5

E (lm/W)
87,6

P (W)

P (W)
28,5

VG34

H m	ø m	E (0°) lux
0,5	1,07	5226
1,0	2,14	1306
1,5	3,22	581
2,0	4,29	327
2,5	5,36	209
3,0	6,43	145

co-C180 94,0°

LO (lm)
2676,0
E (lm/W)

28,5

E (lm/W)
93,8

P (W)

P (W)
28,5

VG43

H m	ø m	E (0°) lux
0,5	1,07	6010
1,0	2,14	1502
1,5	3,22	668
2,0	4,29	376
2,5	5,36	240
3,0	6,43	167

co-C180 94,0°

LO (lm)

3300,4

E (lm/W)

38,5

P (W)

co-C180 94,0°

LO (lm)

3568,0

E (lm/W)

92,6

P (W)

38,5

VG44

H m	ø m	E (0°) lux
0,5	1,07	6968
1,0	2,14	1742
1,5	3,22	774
2,0	4,29	435
2,5	5,36	279
3,0	6,43	194

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

P (W)

34,2

co-C180 94,0°

LO (lm)

2256,7

E (lm/W)

65,9

P (W)

34,2

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

P (W)

34,2

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

P (W)

34,2

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

P (W)

34,2

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

P (W)

34,2

co-C180 94,0°

LO (lm)

1681,4

E (lm/W)

49,1

<tr



Ambient light

Ambiente

Til	100
Passo	101

Til



Wall surface mounting. Direct/Indirect
Adosado a pared. Directo/indirecto

0 Photobiological Safety
Seguridad Fotobiológica

19 UGR

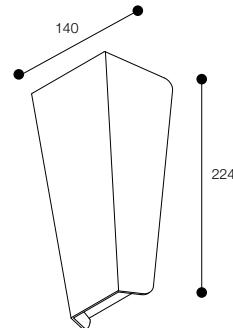


19 Glare index
Índice de deslumbramiento

Colour Color



Ref. + B,G,N



	W	K	LUMEN	IP
[LED] AT3	1x7W	3000	535 lm	20
[LED] AT4	1x7W	4000	615 lm	20

Til is a wall lamp with a minimalist design. One by one or in combination allows you to decorate the empty spaces and inundate them with light.

Til es un aplique de pared con diseño minimalista. De uno en uno o combinado permite decorar los espacios vacíos e inundarlos de luz.

Passo



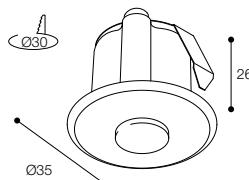
Floor recesssed
Empotrado en suelo

0 Photobiological Safety
Seguridad Fotobiológica

UGR 19



19 | Glare index
Índice de deslumbramiento



Colour Color



Ref. + B, 1, 2



LED COLOR	W	V	IP
LED BP12	○	1x0,4W	12 Vcc 65
LED BP12A	●	1x0,4W	12 Vcc 65
LED BP12R	●	1x0,4W	12 Vcc 65
LED BP12V	●	1x0,4W	12 Vcc 65

PASSO is a small-sized signalling step light. It is available in three different finishes and can be combined with four different Led colours, thus ensuring its integration into any site thanks to its 12 different possible combinations. These step lights are powered at 12 Vcc, which is why they need an additional battery for their operation.

Passo es una baliza de señalización de reducidas dimensiones. Disponible en 3 acabados diferentes, permite combinarse con 4 colores de led, asegurando su integración en cualquier instalación gracias a sus 12 combinaciones. Estas balizas están alimentadas a 12Vcc por lo que necesitan una batería adicional para su correcto funcionamiento.





Projectors Proyectores

Prolit	108
Rail	111

Prolit

Prolit spotlights are extremely versatile, as they can be installed on an electrified rail, attached to ceiling or to wall. The head and the body are made of aluminium injection with a minimalist design. The whole set is lacquered with an epoxy-polyester paint with two different finishes: White or Black.

Los proyectores PROLIT destacan por su versatilidad, ya que pueden instalarse en carril electrificado, adosados a pared o techo. El cabezal y el cuerpo están construidos en inyección de aluminio con un diseño minimalista. Todo el conjunto está lacado con pintura epoxi-poliéster con dos acabados diferentes: blanco o negro.

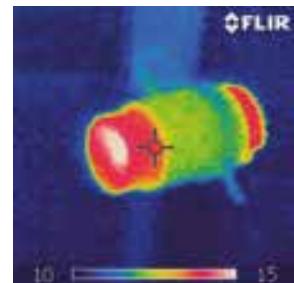


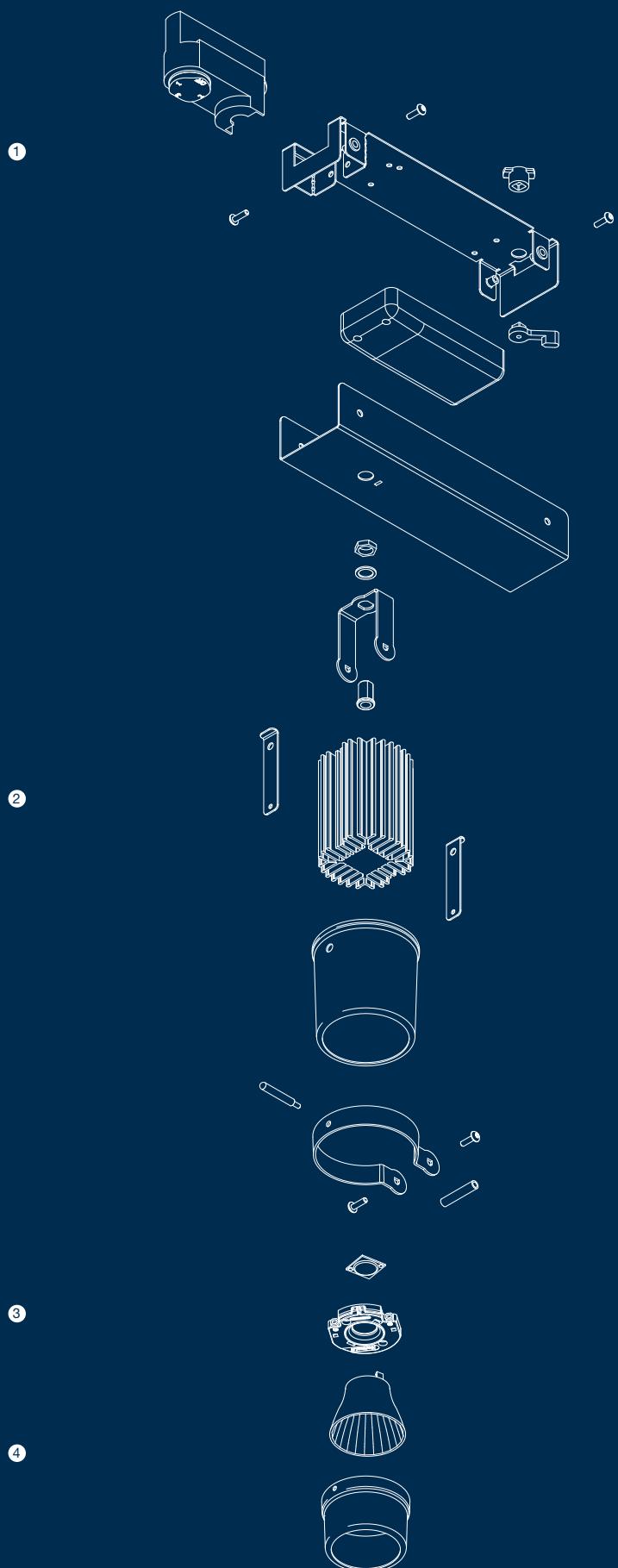


Prolit



Prolit		
Installation	Instalación	Electrical track ceiling surface mounting Carril electrificado adosado a techo
Light source	Fuente de luz	LED
Photobiological safety UGR	Seguridad fotobiológica UGR	0 <19
Flickering <15%	Flickering <15%	✓
CRI	CRI	80-90
Macadam Ellipse	Elipse de Macadam	3
Opening angle	Ángulo de apertura	32
Power (W)	Potencia (W)	11W 16,3W
Temperature	Temperatura	3000/4000
Lumens	Lúmenes	1420 2000
Power factor	Factor de potencia	0,95
Performance	Rendimiento	92,2
Useful live Led	Vida útil Led	60000
Useful live driver	Vida útil driver	>60000
Expectation	Expectativa	L70F10
Zhaga replaceable Led	Led sustituible Zhaga	✓
ON/OFF Cycles	Ciclos de encendido	120000
DALI	DALI	—
Continuous Operation (24h) Independent Electronic	Funcionamiento continuado 24h Electronica Independiente	✓ ✓
IP	IP	20
Class	Clase	I
Weight (Kg)	Peso (Kg)	1





1
Fijación a Carril Electrificado
Electrified track fixation

2
Disipador térmico
Heat sink

3
Led COB
Led COB

4
Reflector prismático
Prismatic reflector

Proliit



Ceiling surface mounting
Adosado a techo

NEW

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**

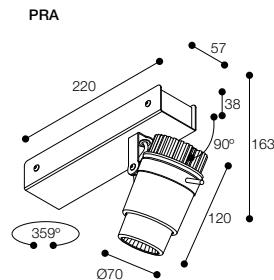


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

92,2 | Performance
Rendimiento

32° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil
L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido



Colour Color



Ref. + B,N

	W	K	LUMEN	IP
PRA23S	1x16,3W	3000	1875 lm	20
PRA24S	1x16,3W	4000	2000 lm	20

PRA23S			PRA24S		
H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux
0,5	0,29	9632	0,5	0,29	10274
1,0	0,57	2408	1,0	0,57	2569
1,5	0,86	1070	1,5	0,86	1142
2,0	1,15	602	2,0	1,15	642
2,5	1,43	385	2,5	1,43	411
3,0	1,72	268	3,0	1,72	285
CO-C180 32,0°			CO-C180 32,0°		
LO (lm) 1728,7			LO (lm) 1844,0		
E (lm/W) 96,0			E (lm/W) 102,4		
P (W) 18,0			P (W) 18,0		

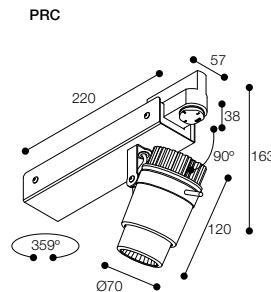




Electrical track
Carril electrificado

0	Photobiological Safety Seguridad Fotobiológica
19	UGR

0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
92,2	Performance Rendimiento
32°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

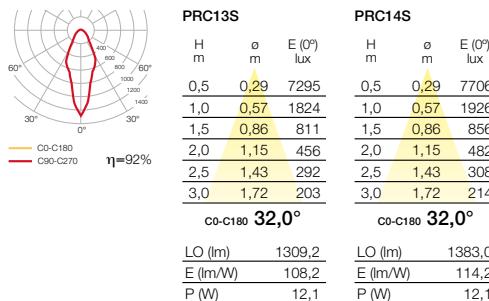
Colour Color



Ref. + B,N



	W	K	LUMEN	IP
PRC13S	1x11W	3000	1420 lm	20
PRC14S	1x11W	4000	1500 lm	20
PRC23S	1x16,3W	3000	1875 lm	20
PRC24S	1x16,3W	4000	2000 lm	20



PRC23S	PRC24S
H m	H m
ø m	ø m
E (0°) lux	E (0°) lux
0,5	0,5
1,0	0,57
1,5	0,86
2,0	1,15
2,5	1,43
3,0	1,72

c0-c180 32,0°

1728,7

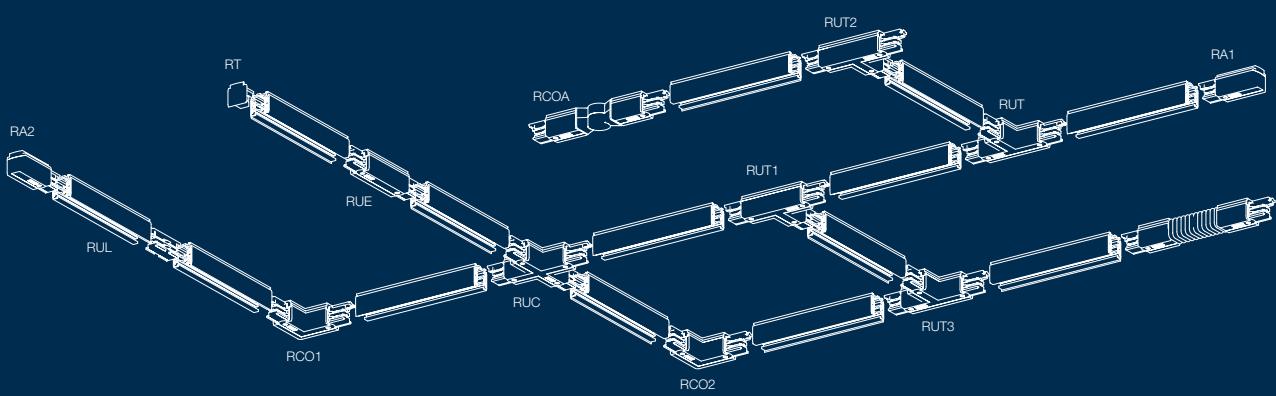
96,0

18,0

1844,0

102,4

18,0



Ceiling surface mounting
Adosado a techo



Ceiling Suspended mounting
Suspendido a techo



Rail

Normalit RAIL family is a complete system for track lighting; fast and easy to install. Accessories for joinings and suspension complete this system. Its versatility makes it an ideal solution for museums, offices, shops, showcases. Also it gives so much flexibility to accommodate to new lighting requirements, any change on luminaires position can be done very easily.

La familia RAIL de Normalit es completo sistema de rail electrificado rápido y fácil de instalar. Además de los carriles, el sistema se completa con otros accesorios de conexión y suspensión. Su gran versatilidad lo hacen el sistema ideal para instalarse en museos, oficinas, comercios, escaparates, etc. Permiten mucha flexibilidad en los proyectos de iluminación. Cualquier cambio de las luminarias en función de nuevos requerimientos lumínicos se puede realizar muy fácilmente.

Rail



Adosado
a techo



Suspendido
a techo

Colour Color



B



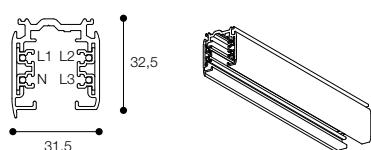
N

Ref. + B,N

NEW

RAILS RAILES

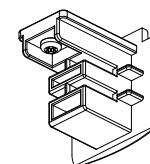
R2-3



R2	2000
R3	3000

RT

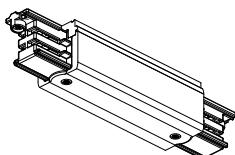
End cover
Tapa final



POWER SUPPLY ALIMENTADORES

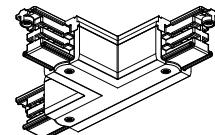
RUE

Middle-Feed
Alimentador Central



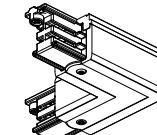
RUT

T-Feed
Alimentador T



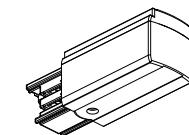
RCO

L-Feed
Alimentador L

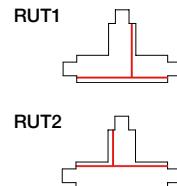


RA

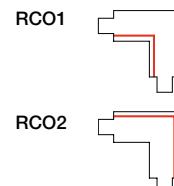
End-Feed
Alimentador Final



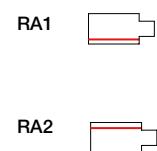
POLARITY POLARIDAD



POLARITY POLARIDAD



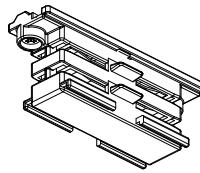
POLARITY POLARIDAD



CONNECTORS CONNECTORES

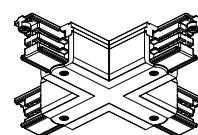
RUL

Straight Connector
Conector lineal



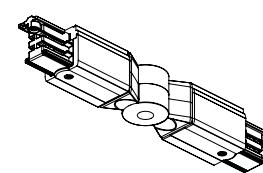
RUC

X-Feed
Conector X

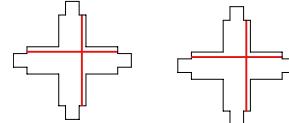


RCOA

Adjustable corner connector
Conector ajustable

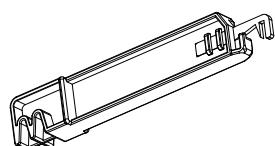


POLARITY POLARIDAD



TOOLS HERRAMIENTAS

RH



The folding tool is necessary to wire the power and the connectors correctly

La herramienta de doblado es necesaria para el correcto conexionado de los alimentadores y conectores

RE



- 16 A, 250 V/400 V, Safety class 1
- Max. pull strength 100 N
- Max. torque 2.5 Nm
- Connecting conductors max. 5 x 2.5 mm²

- 16 A, 250 V/400 V, Seguridad, Clase 1
- Máxima Tensión 100N
- Máxima torsión 2.5 Nm
- Distancia máxima de conexión entre conductores 5 x 2,5 mm²



Structures Perfiles

Linnea	118
Trazzo 50	124
Trazzo 70	128
Trazzo Mixto	140
Trazzo Mural	146
Cosmos	150
Contelux	155
Sycom	160
Essentia	166
Coral	170
Zafiro	173



Linnea

LINNEA is a lineal lighting system especially designed for LED. Build up with extruded aluminium profile, it can be installed suspended or attached to ceiling and also there is a recessed version. It is remarkable its diffusor that combines a very homogeneous lighting with and optimal glare control.

LINNEA es una luminaria lineal especialmente diseñada para fuentes de luz LED. Está construido en perfil de aluminio extruido. Puede instalarse suspendido o adosado a pared, y también tiene una versión empotrada. Cabe destacar su difusor microprismático que combina una iluminación muy homogénea con un óptimo confort visual.



Linnea

Installation	Instalación	Ceiling Suspended mounting Suspendido a techo	Ceiling surface mounting Adosado a techo
Light source	Fuente de luz	LED	
Photobiological safety UGR	Seguridad fotobiológica UGR	0 <19	
Flickering <15%	Flickering <15%	✓	
CRI	CRI	80-90	
Macadam Ellipse	Elipse de Macadam	3	
Opening angle	Ángulo de apertura	95	
Power (W)	Potencia (W)	20,8W 31,2W 38,4W 57,6W	
Temperature	Temperatura	4000	
Lumens	Lúmenes	2960 4440 5440 8160	
Power factor	Factor de potencia	0,95	
Performance	Rendimiento	61	
Useful live Led	Vida útil Led	60000	
Useful live driver	Vida útil driver	>60000	
Expectation	Expectativa	L70F10	
Zhaga replaceable Led	Led sustituible Zhaga	✓	
ON/OFF Cycles	Ciclos de encendido	120000	
DALI	DALI	—	
Continuous Operation (24h)	Funcionamiento continuado 24h	✓	
Independent Electronic	Electronica Independiente	✓	
IP	IP	30	
Class	Clase	I	
Weight (Kg)	Peso (Kg)	2,75 / 4,12	

Linnea



Ceiling Suspended mounting
Suspendido a techo



Ceiling surface mounting
Adosado a techo



0 Photobiological Safety
Seguridad Fotobiológica



LED



CE



WEEE



RoHS



Flicker



85°C



No dust

0,95

Power factor ($\cos \phi$)

Factor de potencia ($\cos \phi$)

19

Glare index

Índice de deslumbramiento

98°

Opening angle

Ángulo de apertura

60.000

Useful life

L70F10 Vida útil

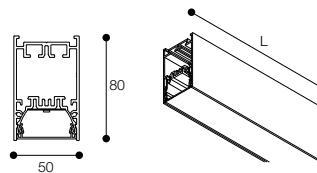
Expandable to 5 years warranty
(depending on project)

Garantía ampliable a 5 años
(según proyecto)



Dimmable 1-10v as an option

Regulación 1-10V bajo pedido



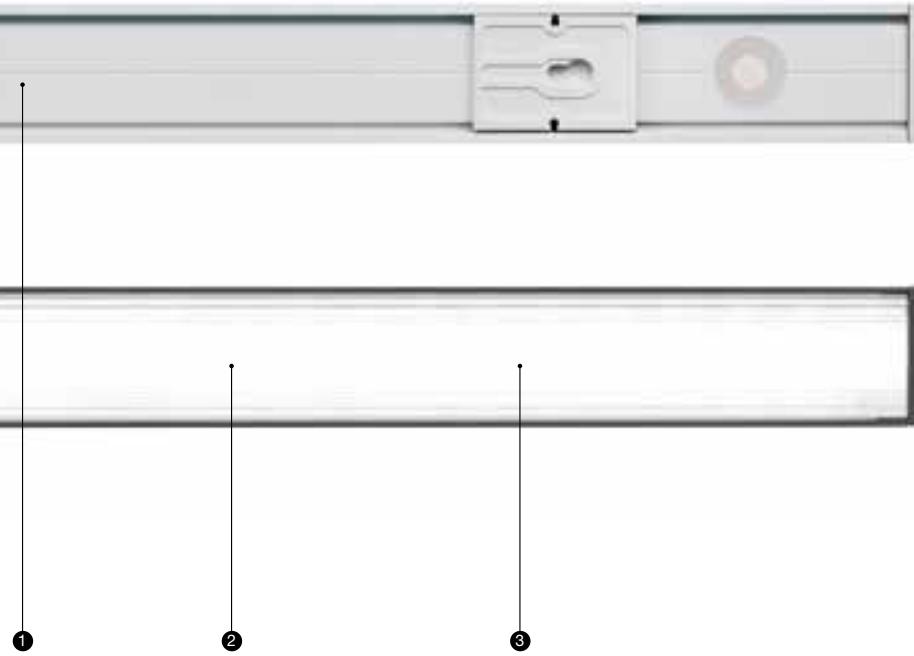
Colour Color



B



G



① Aluminium housing, less weight

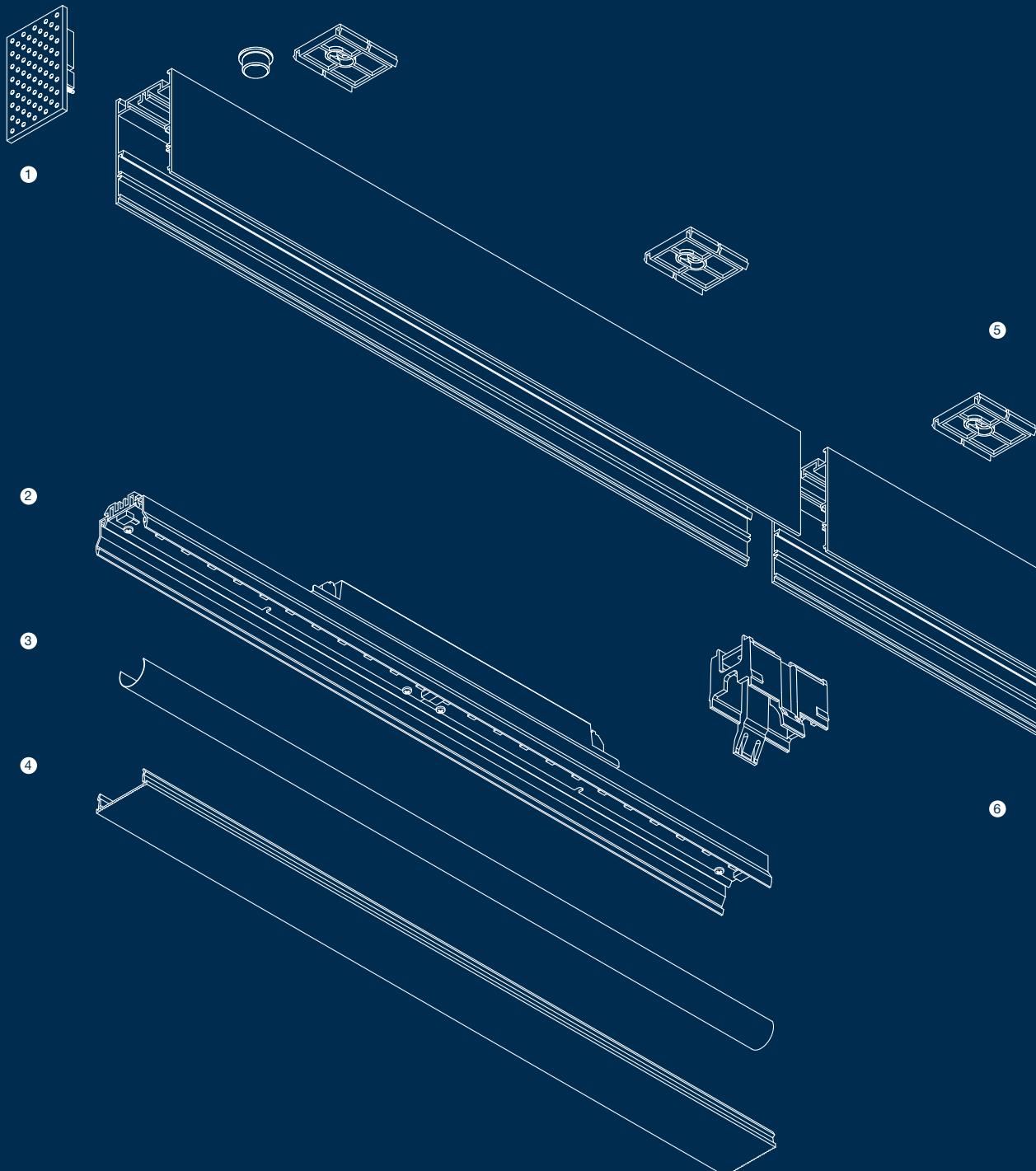
Fijación rápida a carril electrificado

② Led PCB integrated in the dissipator,
increases the useful life

Dissipador térmico integrado, alarga
la vida útil

③ Interchangeable Zhaga Led

Led COB sustituibles



1
Heat housing
Estructura

2
Sink support
Soporte Led disipador

3
Intermediate diffuser
Difusor intermedio

4
Diffuser
Difusor

5
Installation brackets
Soportes de sujeción

6
Union accessory
Accesorio de unión

Linnea



Ceiling surface mounting
Adosado a techo



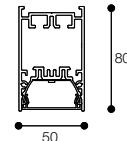
Ceiling Suspended
mounting
Suspendido a techo

NEW

0	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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0,95 | Power factor (COS φ)
Factor de potencia (COS φ)

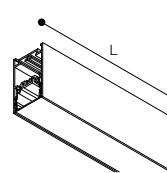


19 | Glare index
Índice de deslumbramiento

95° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10
Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



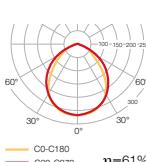
Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G

LO (lm)
E (lm/W)
P (W)



LI4H3O LI4H4O LI4L3O LI4L4O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	
0,5	1,22/0,96	5678	0,5	1,22/0,96	5850	0,5	1,22/0,96	3097	0,5	1,22/0,96	3183	0,5	1,22/0,96	8518	
1,0	2,43/1,91	1420	1,0	2,43/1,91	1463	1,0	2,43/1,91	774	1,0	2,43/1,91	796	1,0	2,43/1,91	2129	
1,5	3,65/2,87	631	1,5	3,65/2,87	650	1,5	3,65/2,87	344	1,5	3,65/2,87	354	1,5	3,65/2,87	946	
2,0	4,87/3,82	356	2,0	4,87/3,82	366	2,0	4,87/3,82	194	2,0	4,87/3,82	199	2,0	4,87/3,82	532	
2,5	6,09/4,78	227	2,5	6,09/4,78	234	2,5	6,09/4,78	124	2,5	6,09/4,78	127	2,5	6,09/4,78	341	
3,0	7,30/5,73	158	3,0	7,30/5,73	163	3,0	7,30/5,73	86	3,0	7,30/5,73	88	3,0	7,30/5,73	237	
	87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270		
LO (lm)	3226,0	LO (lm)	3323,8	LO (lm)	1759,6	LO (lm)	1808,5	LO (lm)	4839,1	LO (lm)	4985,7	LO (lm)	2639,5	LO (lm)	2712,8
E (lm/W)	76,4	E (lm/W)	78,7	E (lm/W)	76,8	E (lm/W)	78,9	E (lm/W)	76,3	E (lm/W)	78,6	E (lm/W)	76,9	E (lm/W)	79,0
P (W)	42,2	P (W)	42,2	P (W)	22,9	P (W)	22,9	P (W)	63,4	P (W)	63,4	P (W)	34,3	P (W)	34,3



	W	K	LUMEN	IP	L(mm)
[LED] LI4H3O	1x38,4W	3000	5280 lm	30	1125
[LED] LI4H4O	1x38,4W	4000	5440 lm	30	1125
[LED] LI4L3O	1x20,8W	3000	2880 lm	30	1125
[LED] LI4L4O	1x20,8W	4000	2960 lm	30	1125
[LED] LI6H3O	1x57,6W	3000	7920 lm	30	1685
[LED] LI6H4O	1x57,6W	4000	8160 lm	30	1685
[LED] LI6L3O	1x31,2W	3000	4320 lm	30	1685
[LED] LI6L4O	1x31,2W	4000	4440 lm	30	1685

	W	K	LUMEN	IP	L(mm)
[LED] LI4H3DO	1x38,4W	3000	5280 lm	30	1125
[LED] LI4H4DO	1x38,4W	4000	5440 lm	30	1125
[LED] LI4L3DO	1x20,8W	3000	2880 lm	30	1125
[LED] LI4L4DO	1x20,8W	4000	2960 lm	30	1125
[LED] LI6H3DO	1x57,6W	3000	7920 lm	30	1685
[LED] LI6H4DO	1x57,6W	4000	8160 lm	30	1685
[LED] LI6L3DO	1x31,2W	3000	4320 lm	30	1685
[LED] LI6L4DO	1x31,2W	4000	4440 lm	30	1685

LI4H3O LI4H4O LI4L3O LI4L4O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	
0,5	1,22/0,96	5678	0,5	1,22/0,96	5850	0,5	1,22/0,96	3097	0,5	1,22/0,96	3183	0,5	1,22/0,96	8518	
1,0	2,43/1,91	1420	1,0	2,43/1,91	1463	1,0	2,43/1,91	774	1,0	2,43/1,91	796	1,0	2,43/1,91	2129	
1,5	3,65/2,87	631	1,5	3,65/2,87	650	1,5	3,65/2,87	344	1,5	3,65/2,87	354	1,5	3,65/2,87	946	
2,0	4,87/3,82	356	2,0	4,87/3,82	366	2,0	4,87/3,82	194	2,0	4,87/3,82	199	2,0	4,87/3,82	532	
2,5	6,09/4,78	227	2,5	6,09/4,78	234	2,5	6,09/4,78	124	2,5	6,09/4,78	127	2,5	6,09/4,78	341	
3,0	7,30/5,73	158	3,0	7,30/5,73	163	3,0	7,30/5,73	86	3,0	7,30/5,73	88	3,0	7,30/5,73	237	
	87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270			87,4° 101,2° CO-C180 C90-C270		
LO (lm)	3226,0	LO (lm)	3323,8	LO (lm)	1759,6	LO (lm)	1808,5	LO (lm)	4839,1	LO (lm)	4985,7	LO (lm)	2639,5	LO (lm)	2712,8
E (lm/W)	76,4	E (lm/W)	78,7	E (lm/W)	76,8	E (lm/W)	78,9	E (lm/W)	76,3	E (lm/W)	78,6	E (lm/W)	76,9	E (lm/W)	79,0
P (W)	42,2	P (W)	42,2	P (W)	22,9	P (W)	22,9	P (W)	63,4	P (W)	63,4	P (W)	34,3	P (W)	34,3

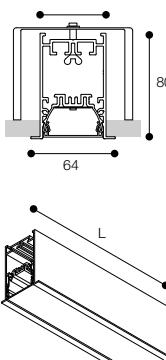


Ceiling recessed
Empotrado a techo



0,95	Power factor (COS φ) Factor de potencia (COS φ)
19	Glare index Índice de deslumbramiento
95°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil

(L+10) x 55



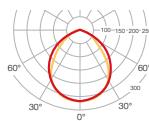
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G



— C90-C270 η=61%



	W	K	LUMEN	IP	L(mm)
[LED] LE4H3O	1x38,4W	3000	5280 lm	30	1125
[LED] LE4H4O	1x38,4W	4000	5440 lm	30	1125
[LED] LE4L3O	1x20,8W	3000	2880 lm	30	1125
[LED] LE4L4O	1x20,8W	4000	2960 lm	30	1125
[LED] LE6H3O	1x57,6W	3000	7920 lm	30	1685
[LED] LE6H4O	1x57,6W	4000	8160 lm	30	1685
[LED] LE6L3O	1x31,2W	3000	4320 lm	30	1685
[LED] LE6L4O	1x31,2W	4000	4440 lm	30	1685



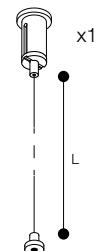
	W	K	LUMEN	IP	L(mm)
[LED] LE4H3DO	1x38,4W	3000	5280 lm	30	1125
[LED] LE4H4DO	1x38,4W	4000	5440 lm	30	1125
[LED] LE4L3DO	1x20,8W	3000	2880 lm	30	1125
[LED] LE4L4DO	1x20,8W	4000	2960 lm	30	1125
[LED] LE6H3DO	1x57,6W	3000	7920 lm	30	1685
[LED] LE6H4DO	1x57,6W	4000	8160 lm	30	1685
[LED] LE6L3DO	1x31,2W	3000	4320 lm	30	1685
[LED] LE6L4DO	1x31,2W	4000	4440 lm	30	1685

LE4H3O	LE4H4O	LE4L3O	LE4L4O	LE6H3O	LE6H4O	LE6L3O	LE6L4O	
H m	ø m	E (0° lux)	H m	ø m	E (0° lux)	H m	ø m	E (0° lux)
0,5	1,22/0,96	5678	0,5	1,22/0,96	5850	0,5	1,22/0,96	3183
1,0	2,43/1,91	1420	1,0	2,43/1,91	1463	1,0	2,43/1,91	796
1,5	3,65/2,87	631	1,5	3,65/2,87	650	1,5	3,65/2,87	344
2,0	4,87/3,82	355	2,0	4,87/3,82	366	2,0	4,87/3,82	194
2,5	6,09/4,78	227	2,5	6,09/4,78	234	2,5	6,09/4,78	124
3,0	7,30/5,73	158	3,0	7,30/5,73	163	3,0	7,30/5,73	86
87,4° 101,2° co-c180 c90-c270								
LO (lm)	3226,0	LO (lm)	1759,6	LO (lm)	1808,5	LO (lm)	4839,1	
E (lm/W)	76,4	E (lm/W)	78,7	E (lm/W)	76,8	E (lm/W)	4985,7	
P (W)	42,2	P (W)	42,2	P (W)	22,9	P (W)	63,4	

ACCESORIES ACCESORIOS

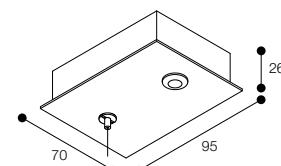
Suspension accessory
Accesorio de suspensión

	L (m)
1029L2	2
1029L4	4



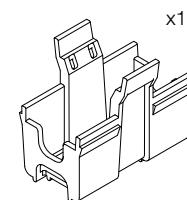
Installation accessory
Accesorio de instalación

	COLOR
ETC1029	■
ETC102910	□



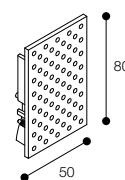
Joining accessory
Accesorio de unión

LI014	
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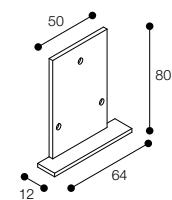
End cover
Tapa final

	COLOR
LI016G	■
LI016B	□



End cover recessed mod
Tapa final versión empotrada

	COLOR
LE016G	■
LE016B	□





Efficient design and technology
Diseño y tecnología eficiente



Trazzo



TRAZZO is a spatial system which allows light band possibilities with direct and indirect lighting. Especially designed for LED, it is manufactured in extruded and anodized aluminium profile. It might be wall or ceiling mounted and also suspended or recessed. Among its lighting variants there are opal polycarbonate diffuser, matt anodized aluminium diffuser for an optimal visual comfort, and the wall-washer effect.

TRAZZO es un sistema espacial que permite hacer líneas continuas de luz con iluminación directa e indirecta. Especialmente diseñado para fuentes de luz LED, está construido en perfil de aluminio extruido y anodizado. Permite el adosado a pared o techo y también puede ser suspendido o empotrado. Entre sus variantes de iluminación están el difusor opal de policarbonato, difusor de aluminio anodizado mate para un óptimo confort visual, y el efecto bañador.

Trazzo 50



Ceiling surface mounting
Adosado a techo



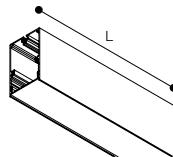
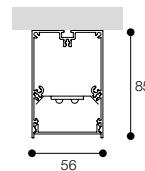
Wall surface mounting
Adosado a pared



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

100° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil
L70F10



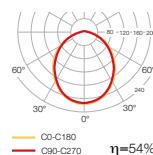
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED T5A4H3O	1x38,4W	3000	5280	30	1130
LED T5A4H4O	1x38,4W	4000	5440	30	1130
LED T5A4L3O	1x20,8W	3000	2880	30	1130
LED T5A4L4O	1x20,8W	4000	2960	30	1130
LED T5A6H3O	1x57,6W	3000	7920	30	1690
LED T5A6H4O	1x57,6W	4000	8160	30	1690
LED T5A6L3O	1x31,2W	3000	4320	30	1690
LED T5A6L4O	1x31,2W	4000	4440	30	1690

	T5A4H3O	T5A4H4O	T5A4L3O	T5A4L4O	
H m	\varnothing m	E (0°) lux	H m	\varnothing m	
0,5	1,18/1,24	4557	0,5	1,18/1,24	
1,0	2,37/2,48	1139	1,0	2,37/2,48	
1,5	3,55/3,72	506	1,5	3,55/3,72	
2,0	4,73/4,96	285	2,0	4,73/4,96	
2,5	5,92/6,20	182	2,5	5,92/6,20	
3,0	7,10/7,44	127	3,0	7,10/7,44	
102,2° 99,6° C0-C180 C90-C270		102,2° 99,6° C0-C180 C90-C270		102,2° 99,6° C0-C180 C90-C270	
LO (lm)	2861,7	LO (lm)	2948,4	LO (lm)	1560,9
E (lm/W)	67,8	E (lm/W)	69,8	E (lm/W)	68,1
P (W)	42,2	P (W)	42,2	P (W)	22,9

	T5A6H3O	T5A6H4O	T5A6L3O	T5A6L4O	
H m	\varnothing m	E (0°) lux	H m	\varnothing m	
0,5	1,18/1,24	6836	0,5	1,18/1,24	
1,0	2,37/2,48	1709	1,0	2,37/2,48	
1,5	3,55/3,72	760	1,5	3,55/3,72	
2,0	4,73/4,96	427	2,0	4,73/4,96	
2,5	5,92/6,20	273	2,5	5,92/6,20	
3,0	7,10/7,44	190	3,0	7,10/7,44	
102,2° 99,6° C0-C180 C90-C270		102,2° 99,6° C0-C180 C90-C270		102,2° 99,6° C0-C180 C90-C270	
LO (lm)	4292,6	LO (lm)	4422,7	LO (lm)	2341,4
E (lm/W)	67,7	E (lm/W)	69,7	E (lm/W)	68,2
P (W)	63,4	P (W)	63,4	P (W)	34,3

Trazzo 50



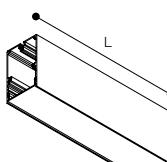
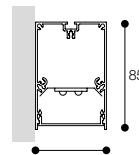
Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
100°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

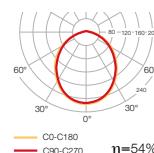
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED T5P4H30	1x38,4W	3000	5280	30	1130
LED T5P4H40	1x38,4W	4000	5440	30	1130
LED T5P4L30	1x20,8W	3000	2880	30	1130
LED T5P4L40	1x20,8W	4000	2960	30	1130
LED T5P6H30	1x57,6W	3000	7920	30	1690
LED T5P6H40	1x57,6W	4000	8160	30	1690
LED T5P6L30	1x31,2W	3000	4320	30	1690
LED T5P6L40	1x31,2W	4000	4440	30	1690



T5P4H30			T5P4H40			T5P4L30			T5P4L40		
H m	ϕ m	E (0°) lux									
0,5	1,18/1,24	4557	0,5	1,18/1,24	4695	0,5	1,18/1,24	2486	0,5	1,18/1,24	2555
1,0	2,37/2,48	1139	1,0	2,37/2,48	1174	1,0	2,37/2,48	621	1,0	2,37/2,48	639
1,5	3,55/3,72	506	1,5	3,55/3,72	522	1,5	3,55/3,72	276	1,5	3,55/3,72	284
2,0	4,73/4,96	285	2,0	4,73/4,96	293	2,0	4,73/4,96	155	2,0	4,73/4,96	160
2,5	5,92/6,20	182	2,5	5,92/6,20	188	2,5	5,92/6,20	99	2,5	5,92/6,20	102
3,0	7,10/7,44	127	3,0	7,10/7,44	130	3,0	7,10/7,44	69	3,0	7,10/7,44	71
102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270		
LO (lm)	2861,7		LO (lm)	2948,4		LO (lm)	1560,9		LO (lm)	1604,3	
E (lm/W)	67,8		E (lm/W)	69,8		E (lm/W)	68,1		E (lm/W)	70,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T5P6H30			T5P6H40			T5P6L30			T5P6L40		
H m	ϕ m	E (0°) lux									
0,5	1,18/1,24	6836	0,5	1,18/1,24	7043	0,5	1,18/1,24	3729	0,5	1,18/1,24	3832
1,0	2,37/2,48	1709	1,0	2,37/2,48	1761	1,0	2,37/2,48	932	1,0	2,37/2,48	958
1,5	3,55/3,72	760	1,5	3,55/3,72	783	1,5	3,55/3,72	414	1,5	3,55/3,72	426
2,0	4,73/4,96	427	2,0	4,73/4,96	440	2,0	4,73/4,96	233	2,0	4,73/4,96	240
2,5	5,92/6,20	273	2,5	5,92/6,20	282	2,5	5,92/6,20	149	2,5	5,92/6,20	153
3,0	7,10/7,44	190	3,0	7,10/7,44	196	3,0	7,10/7,44	104	3,0	7,10/7,44	106
102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270		
LO (lm)	4292,6		LO (lm)	4422,7		LO (lm)	2341,4		LO (lm)	2406,4	
E (lm/W)	67,7		E (lm/W)	69,7		E (lm/W)	68,2		E (lm/W)	70,1	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

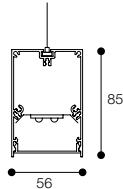
Trazzo 50



Ceiling Suspended mounting
Suspendido a techo



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
100°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



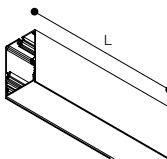
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

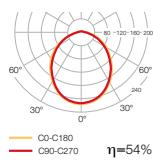
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED T5S4H3O	1x38,4W	3000	5280	30	1130
LED T5S4H4O	1x38,4W	4000	5440	30	1130
LED T5S4L3O	1x20,8W	3000	2880	30	1130
LED T5S4L4O	1x20,8W	4000	2960	30	1130
LED T5S6H3O	1x57,6W	3000	7920	30	1690
LED T5S6H4O	1x57,6W	4000	8160	30	1690
LED T5S6L3O	1x31,2W	3000	4320	30	1690
LED T5S6L4O	1x31,2W	4000	4440	30	1690



T5S4H3O			T5S4H4O			T5S4L3O			T5S4L4O		
H m	ø m	E (0°) lux									
0,5	1,18/1,24	4557	0,5	1,18/1,24	4695	0,5	1,18/1,24	2486	0,5	1,18/1,24	2555
1,0	2,37/2,48	1139	1,0	2,37/2,48	1174	1,0	2,37/2,48	621	1,0	2,37/2,48	639
1,5	3,55/3,72	506	1,5	3,55/3,72	522	1,5	3,55/3,72	276	1,5	3,55/3,72	284
2,0	4,73/4,96	285	2,0	4,73/4,96	293	2,0	4,73/4,96	155	2,0	4,73/4,96	160
2,5	5,92/6,20	182	2,5	5,92/6,20	188	2,5	5,92/6,20	99	2,5	5,92/6,20	102
3,0	7,10/7,44	127	3,0	7,10/7,44	130	3,0	7,10/7,44	69	3,0	7,10/7,44	71
102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270		
LO (lm)	2861,7		LO (lm)	2948,4		LO (lm)	1560,9		LO (lm)	1604,3	
E (lm/W)	67,8		E (lm/W)	69,8		E (lm/W)	68,1		E (lm/W)	70,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

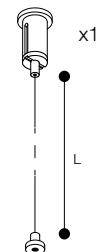
T5S6H3O			T5S6H4O			T5S6L3O			T5S6L4O		
H m	ø m	E (0°) lux									
0,5	1,18/1,24	6836	0,5	1,18/1,24	7043	0,5	1,18/1,24	3729	0,5	1,18/1,24	3832
1,0	2,37/2,48	1709	1,0	2,37/2,48	1761	1,0	2,37/2,48	932	1,0	2,37/2,48	958
1,5	3,55/3,72	760	1,5	3,55/3,72	783	1,5	3,55/3,72	414	1,5	3,55/3,72	426
2,0	4,73/4,96	427	2,0	4,73/4,96	440	2,0	4,73/4,96	233	2,0	4,73/4,96	240
2,5	5,92/6,20	273	2,5	5,92/6,20	282	2,5	5,92/6,20	149	2,5	5,92/6,20	153
3,0	7,10/7,44	190	3,0	7,10/7,44	196	3,0	7,10/7,44	104	3,0	7,10/7,44	106
102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270			102,2° 99,6° C0-C180 C90-C270		
LO (lm)	4292,6		LO (lm)	4422,7		LO (lm)	2341,4		LO (lm)	2406,4	
E (lm/W)	67,7		E (lm/W)	69,7		E (lm/W)	68,2		E (lm/W)	70,1	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

Trazzo 50

ACCESORIES ACCESORIOS

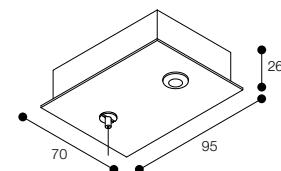
Suspension accessory
Accesorio de suspensión

	L (m)
1029L2	2
1029L4	4



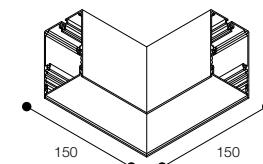
Installation accessory
Accesorio de instalación

	COLOR
ETC1029	■
ETC102910	□



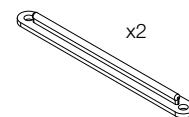
Joining accessory
Accesorio de unión

	COLOR
TZ50006	■
TZ5000610	□



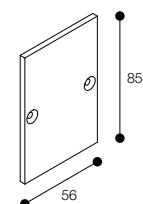
Joining accessory
Accesorio de unión

TZ50014



End cover
Tapa final

	COLOR
TZ50016	■
TZ5001610	□



Trazzo 70



Ceiling surface mounting.
Washer
Adosado a techo. Bañador



Wall surface mounting.
Washer
Adosado a pared. Bañador

0	Photobiological Safety Seguridad Fotobiológica
UGR 19	

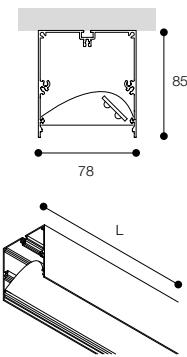


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

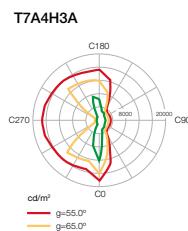
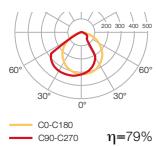
Colour Color



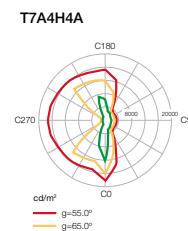
Ref. + B,G



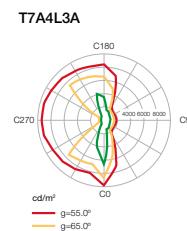
	W	K	LUMEN	IP	L(mm)
LED T7A4H3A	1x38,4W	3000	5280	30	1130
LED T7A4H4A	1x38,4W	4000	5440	30	1130
LED T7A4L3A	1x20,8W	3000	2880	30	1130
LED T7A4L4A	1x20,8W	4000	2960	30	1130
LED T7A6H3A	1x57,6W	3000	7920	30	1690
LED T7A6H4A	1x57,6W	4000	8160	30	1690
LED T7A6L3A	1x31,2W	3000	4320	30	1690
LED T7A6L4A	1x31,2W	4000	4440	30	1690



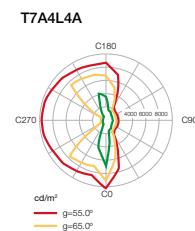
LO (lm)	4159,0
E (lm/W)	98,5
P (W)	42,2



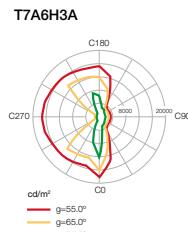
LO (lm)	4285,0
E (lm/W)	101,5
P (W)	42,2



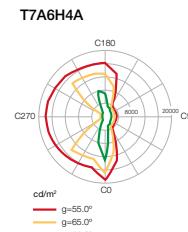
LO (lm)	2268,5
E (lm/W)	99,0
P (W)	22,9



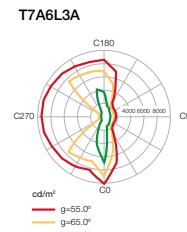
LO (lm)	2331,5
E (lm/W)	101,8
P (W)	22,9



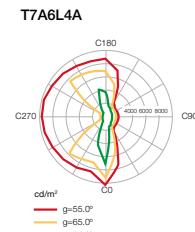
LO (lm)	6238,5
E (lm/W)	98,4
P (W)	63,4



LO (lm)	6427,6
E (lm/W)	101,3
P (W)	63,4



LO (lm)	3402,2
E (lm/W)	99,2
P (W)	34,3



LO (lm)	3497,3
E (lm/W)	101,9
P (W)	34,3

Trazzo 70



Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared

0 Photobiological Safety
Seguridad Fotobiológica

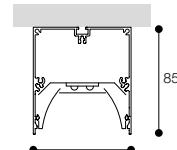
UGR
19



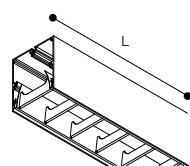
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura



60.000 | Useful life
L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

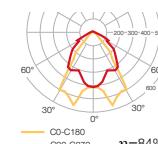
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
[LED] T7A4H3L	1x38,4W	3000	5280	30	1130
[LED] T7A4H4L	1x38,4W	4000	5440	30	1130
[LED] T7A4L3L	1x20,8W	3000	2880	30	1130
[LED] T7A4L4L	1x20,8W	4000	2960	30	1130
[LED] T7A6H3L	1x57,6W	3000	7920	30	1690
[LED] T7A6H4L	1x57,6W	4000	8160	30	1690
[LED] T7A6L3L	1x31,2W	3000	4320	30	1690
[LED] T7A6L4L	1x31,2W	4000	4440	30	1690



T7A4H3L			T7A4H4L			T7A4L3L			T7A4L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	8727	0,5	1,12/0,68	8992	0,5	1,12/0,68	4760	0,5	1,12/0,68	4893
1,0	2,24/1,36	2182	1,0	2,24/1,36	2248	1,0	2,24/1,36	1190	1,0	2,24/1,36	1223
1,5	3,37/2,05	970	1,5	3,37/2,05	999	1,5	3,37/2,05	529	1,5	3,37/2,05	544
2,0	4,49/2,73	545	2,0	4,49/2,73	562	2,0	4,49/2,73	298	2,0	4,49/2,73	306
2,5	5,61/3,41	349	2,5	5,61/3,41	360	2,5	5,61/3,41	190	2,5	5,61/3,41	196
3,0	6,73/4,09	242	3,0	6,73/4,09	250	3,0	6,73/4,09	132	3,0	6,73/4,09	136
68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270		
LO (lm)			LO (lm)			LO (lm)			LO (lm)		
E (lm/W)			E (lm/W)			E (lm/W)			E (lm/W)		
P (W)			P (W)			P (W)			P (W)		

T7A6H3L			T7A6H4L			T7A6L3L			T7A6L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	13091	0,5	1,12/0,68	13488	0,5	1,12/0,68	7140	0,5	1,12/0,68	7339
1,0	2,24/1,36	3273	1,0	2,24/1,36	3372	1,0	2,24/1,36	1785	1,0	2,24/1,36	1835
1,5	3,37/2,05	1455	1,5	3,37/2,05	1499	1,5	3,37/2,05	793	1,5	3,37/2,05	815
2,0	4,49/2,73	818	2,0	4,49/2,73	843	2,0	4,49/2,73	446	2,0	4,49/2,73	459
2,5	5,61/3,41	524	2,5	5,61/3,41	540	2,5	5,61/3,41	286	2,5	5,61/3,41	294
3,0	6,73/4,09	364	3,0	6,73/4,09	375	3,0	6,73/4,09	198	3,0	6,73/4,09	204
68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270		
LO (lm)			LO (lm)			LO (lm)			LO (lm)		
E (lm/W)			E (lm/W)			E (lm/W)			E (lm/W)		
P (W)			P (W)			P (W)			P (W)		

Trazzo 70



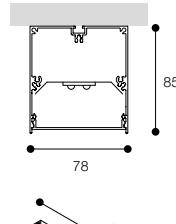
Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura
60.000	Useful life Vida útil L70F10



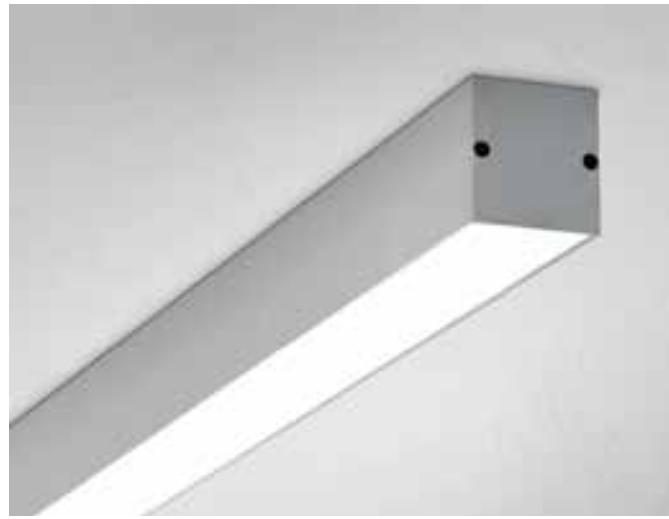
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

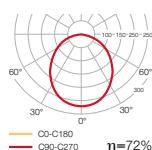
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
T7A4H3O	1x38,4W	3000	5280	30	1130
T7A4H4O	1x38,4W	4000	5440	30	1130
T7A4L3O	1x20,8W	3000	2880	30	1130
T7A4L4O	1x20,8W	4000	2960	30	1130
T7A6H3O	1x57,6W	3000	7920	30	1690
T7A6H4O	1x57,6W	4000	8160	30	1690
T7A6L3O	1x31,2W	3000	4320	30	1690
T7A6L4O	1x31,2W	4000	4440	30	1690



T7A4H3O			T7A4H4O			T7A4L3O			T7A4L4O		
H m	ø m	E (0°) lux									
0,5	1,30/1,28	5730	0,5	1,30/1,28	5903	0,5	1,30/1,28	3125	0,5	1,30/1,28	3212
1,0	2,60/2,55	1432	1,0	2,60/2,55	1476	1,0	2,60/2,55	781	1,0	2,60/2,55	803
1,5	3,90/3,83	637	1,5	3,90/3,83	656	1,5	3,90/3,83	347	1,5	3,90/3,83	357
2,0	5,19/5,10	358	2,0	5,19/5,10	369	2,0	5,19/5,10	195	2,0	5,19/5,10	201
2,5	6,49/6,38	229	2,5	6,49/6,38	236	2,5	6,49/6,38	125	2,5	6,49/6,38	128
3,0	7,79/7,65	159	3,0	7,79/7,65	164	3,0	7,79/7,65	87	3,0	7,79/7,65	89
103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270		
LO (lm)	3801,6		LO (lm)	3916,8		LO (lm)	2073,0		LO (lm)	2131,2	
E (lm/W)	90,0		E (lm/W)	92,8		E (lm/W)	90,5		E (lm/W)	93,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T7A6H3O			T7A6H4O			T7A6L3O			T7A6L4O		
H m	ø m	E (0°) lux									
0,5	1,30/1,28	8595	0,5	1,30/1,28	4688	0,5	1,30/1,28	5730	0,5	1,30/1,28	4818
1,0	2,60/2,55	2149	1,0	2,60/2,55	1172	1,0	2,60/2,55	1432	1,0	2,60/2,55	1205
1,5	3,90/3,83	955	1,5	3,90/3,83	521	1,5	3,90/3,83	637	1,5	3,90/3,83	535
2,0	5,19/5,10	537	2,0	5,19/5,10	293	2,0	5,19/5,10	358	2,0	5,19/5,10	301
2,5	6,49/6,38	344	2,5	6,49/6,38	188	2,5	6,49/6,38	229	2,5	6,49/6,38	193
3,0	7,79/7,65	239	3,0	7,79/7,65	130	3,0	7,79/7,65	159	3,0	7,79/7,65	134
103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270			103,8° 104,8° co-C180 c90-c270		
LO (lm)	5702,4		LO (lm)	5875,2		LO (lm)	3110,4		LO (lm)	3196,8	
E (lm/W)	89,9		E (lm/W)	92,6		E (lm/W)	90,6		E (lm/W)	93,2	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

Trazzo 70

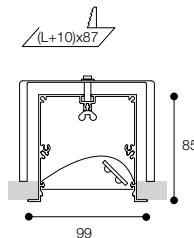


Ceiling recessed. Washer
Empotrado a techo. Bañador

0	Photobiological Safety Seguridad Fotobiológica	UGR 19	
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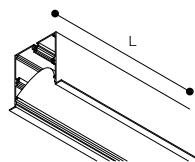


0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido



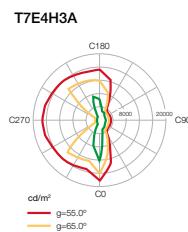
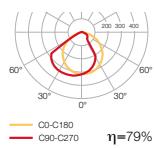
Colour Color



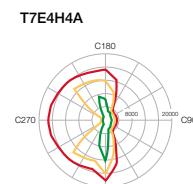
Ref. + B,G



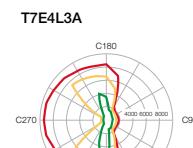
	W	K	LUMEN	IP	L(mm)
T7E4H3A	1x38,4W	3000	5280	30	1130
T7E4H4A	1x38,4W	4000	5440	30	1130
T7E4L3A	1x20,8W	3000	2880	30	1130
T7E4L4A	1x20,8W	4000	2960	30	1130
T7E6H3A	1x57,6W	3000	7920	30	1690
T7E6H4A	1x57,6W	4000	8160	30	1690
T7E6L3A	1x31,2W	3000	4320	30	1690
T7E6L4A	1x31,2W	4000	4440	30	1690



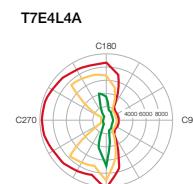
LO (lm)	4159,0
E (lm/W)	98,5
P (W)	42,2



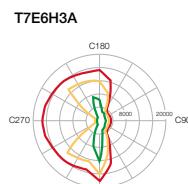
LO (lm)	4285,0
E (lm/W)	101,5
P (W)	42,2



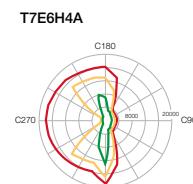
LO (lm)	2268,5
E (lm/W)	99,0
P (W)	22,9



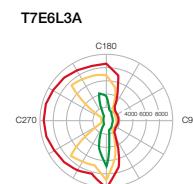
LO (lm)	2331,5
E (lm/W)	101,8
P (W)	22,9



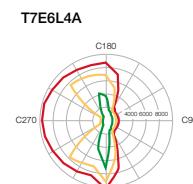
LO (lm)	6238,5
E (lm/W)	98,4
P (W)	63,4



LO (lm)	6427,6
E (lm/W)	101,3
P (W)	63,4



LO (lm)	3402,2
E (lm/W)	99,2
P (W)	34,3



LO (lm)	3497,3
E (lm/W)	101,9
P (W)	34,3

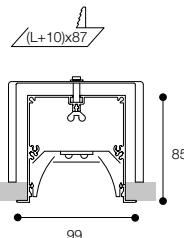
Trazzo 70



Ceiling recessed
Empotrado a techo

0	Photobiological Safety Seguridad Fotobiológica
UGR 19	

0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



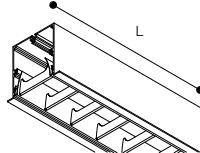
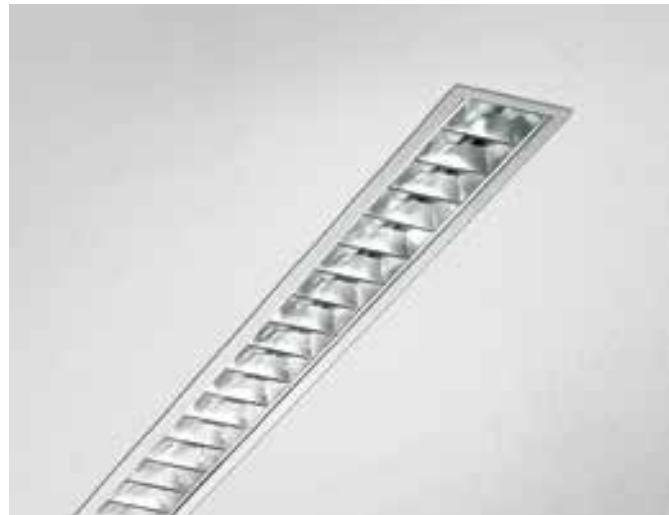
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

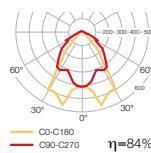
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
T7E4H3L	1x38,4W	3000	5280	30	1130
T7E4H4L	1x38,4W	4000	5440	30	1130
T7E4L3L	1x20,8W	3000	2880	30	1130
T7E4L4L	1x20,8W	4000	2960	30	1130
T7E6H3L	1x57,6W	3000	7920	30	1690
T7E6H4L	1x57,6W	4000	8160	30	1690
T7E6L3L	1x31,2W	3000	4320	30	1690
T7E6L4L	1x31,2W	4000	4440	30	1690



T7E4H3L			T7E4H4L			T7E4L3L			T7E4L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	8727	0,5	1,12/0,68	8992	0,5	1,12/0,68	4760	0,5	1,12/0,68	4893
1,0	2,24/1,36	2182	1,0	2,24/1,36	2248	1,0	2,24/1,36	1190	1,0	2,24/1,36	1223
1,5	3,37/2,05	970	1,5	3,37/2,05	999	1,5	3,37/2,05	529	1,5	3,37/2,05	544
2,0	4,49/2,73	545	2,0	4,49/2,73	562	2,0	4,49/2,73	298	2,0	4,49/2,73	306
2,5	5,61%3,41	349	2,5	5,61%3,41	360	2,5	5,61%3,41	190	2,5	5,61%3,41	196
3,0	6,73/4,09	242	3,0	6,73/4,09	250	3,0	6,73/4,09	132	3,0	6,73/4,09	136
68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270		
LO (lm)	4456,3		LO (lm)	4591,3		LO (lm)	2430,7		LO (lm)	2498,2	
E (lm/W)	105,6		E (lm/W)	108,8		E (lm/W)	106,1		E (lm/W)	109,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T7E6H3L			T7E6H4L			T7E6L3L			T7E6L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	13091	0,5	1,12/0,68	13488	0,5	1,12/0,68	7140	0,5	1,12/0,68	7339
1,0	2,24/1,36	3273	1,0	2,24/1,36	3372	1,0	2,24/1,36	1785	1,0	2,24/1,36	1835
1,5	3,37/2,05	1455	1,5	3,37/2,05	1499	1,5	3,37/2,05	793	1,5	3,37/2,05	815
2,0	4,49/2,73	818	2,0	4,49/2,73	843	2,0	4,49/2,73	446	2,0	4,49/2,73	459
2,5	5,61%3,41	524	2,5	5,61%3,41	540	2,5	5,61%3,41	286	2,5	5,61%3,41	294
3,0	6,73/4,09	364	3,0	6,73/4,09	375	3,0	6,73/4,09	198	3,0	6,73/4,09	204
68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270			68,6° 96,6° C0-C180 C90-C270		
LO (lm)	6684,4		LO (lm)	6887,0		LO (lm)	3646,0		LO (lm)	3747,3	
E (lm/W)	105,4		E (lm/W)	108,6		E (lm/W)	106,2		E (lm/W)	109,2	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

Trazzo 70

Ceiling recessed
Empotrado a techo

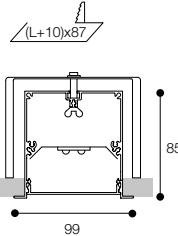


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

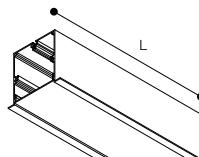
19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

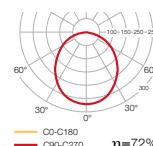
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
[LED] T7E4H3O	1x38,4W	3000	5280	30	1130
[LED] T7E4H4O	1x38,4W	4000	5440	30	1130
[LED] T7E4L3O	1x20,8W	3000	2880	30	1130
[LED] T7E4L4O	1x20,8W	4000	2960	30	1130
[LED] T7E6H3O	1x57,6W	3000	7920	30	1690
[LED] T7E6H4O	1x57,6W	4000	8160	30	1690
[LED] T7E6L3O	1x31,2W	3000	4320	30	1690
[LED] T7E6L4O	1x31,2W	4000	4440	30	1690



T7E4H3O			T7E4H4O			T7E4L3O			T7E4L4O		
H m	ϕ m	E (0°) lux									
0,5	1,30/1,28	5730	0,5	1,30/1,28	5903	0,5	1,30/1,28	3125	0,5	1,30/1,28	3212
1,0	2,60/2,55	1432	1,0	2,60/2,55	1476	1,0	2,60/2,55	781	1,0	2,60/2,55	803
1,5	3,90/3,83	637	1,5	3,90/3,83	656	1,5	3,90/3,83	347	1,5	3,90/3,83	357
2,0	5,19/5,10	358	2,0	5,19/5,10	369	2,0	5,19/5,10	195	2,0	5,19/5,10	201
2,5	6,49/6,38	229	2,5	6,49/6,38	236	2,5	6,49/6,38	125	2,5	6,49/6,38	128
3,0	7,79/7,65	159	3,0	7,79/7,65	164	3,0	7,79/7,65	87	3,0	7,79/7,65	89
103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270		
LO (lm)	3801,6		LO (lm)	3916,8		LO (lm)	2073,0		LO (lm)	2131,2	
E (lm/W)	90,0		E (lm/W)	92,8		E (lm/W)	90,5		E (lm/W)	93,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T7E6H3O			T7E6H4O			T7E6L3O			T7E6L4O		
H m	ϕ m	E (0°) lux									
0,5	1,30/1,28	8595	0,5	1,30/1,28	4688	0,5	1,30/1,28	5730	0,5	1,30/1,28	4818
1,0	2,60/2,55	2149	1,0	2,60/2,55	1172	1,0	2,60/2,55	1432	1,0	2,60/2,55	1205
1,5	3,90/3,83	955	1,5	3,90/3,83	521	1,5	3,90/3,83	637	1,5	3,90/3,83	535
2,0	5,19/5,10	537	2,0	5,19/5,10	293	2,0	5,19/5,10	358	2,0	5,19/5,10	301
2,5	6,49/6,38	344	2,5	6,49/6,38	188	2,5	6,49/6,38	229	2,5	6,49/6,38	193
3,0	7,79/7,65	239	3,0	7,79/7,65	130	3,0	7,79/7,65	159	3,0	7,79/7,65	134
103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270		
LO (lm)	5702,4		LO (lm)	5875,2		LO (lm)	3110,4		LO (lm)	3196,8	
E (lm/W)	89,9		E (lm/W)	92,6		E (lm/W)	90,6		E (lm/W)	93,2	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

Trazzo 70



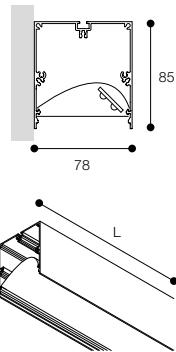
Ceiling surface mounting.
Washer
Adosado a techo. Bañador



Wall surface mounting.
Washer
Adosado a pared. Bañador

0	Photobiological Safety Seguridad Fotobiológica
UGR 19	
	LED
	CE
	UL
	VDE
	850°C

0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
19	Glare index Índice de deslumbramiento
104°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

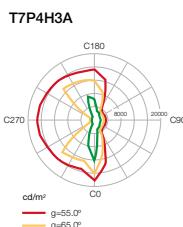
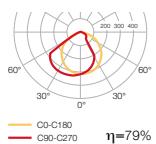
Colour Color



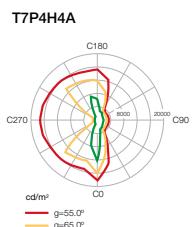
Ref. + B,G



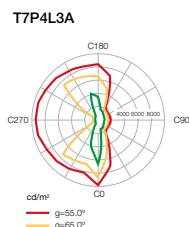
	W	K	LUMEN	IP	L(mm)
T7P4H3A	1x38,4W	3000	5280	30	1130
T7P4H4A	1x38,4W	4000	5440	30	1130
T7P4L3A	1x20,8W	3000	2880	30	1130
T7P4L4A	1x20,8W	4000	2960	30	1130
T7P6H3A	1x57,6W	3000	7920	30	1690
T7P6H4A	1x57,6W	4000	8160	30	1690
T7P6L3A	1x31,2W	3000	4320	30	1690
T7P6L4A	1x31,2W	4000	4440	30	1690



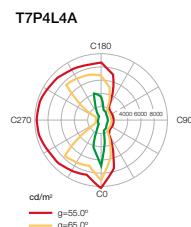
LO (lm)	4159,0
E (lm/W)	98,5
P (W)	42,2



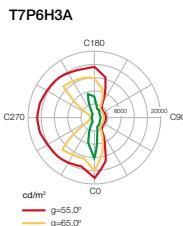
LO (lm)	4285,0
E (lm/W)	101,5
P (W)	42,2



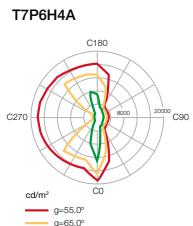
LO (lm)	2268,5
E (lm/W)	99,0
P (W)	22,9



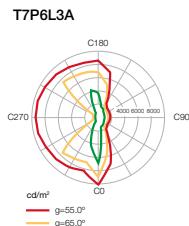
LO (lm)	2331,5
E (lm/W)	101,8
P (W)	22,9



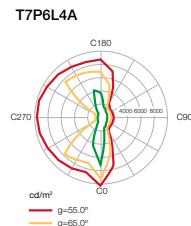
LO (lm)	6238,5
E (lm/W)	98,4
P (W)	63,4



LO (lm)	6427,6
E (lm/W)	101,3
P (W)	63,4



LO (lm)	3402,2
E (lm/W)	99,2
P (W)	34,3



LO (lm)	3497,3
E (lm/W)	101,9
P (W)	34,3

Trazzo 70



Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared



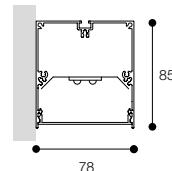
0 Photobiological Safety
Seguridad Fotobiológica



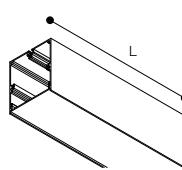
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura



60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

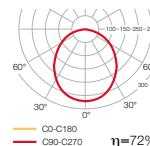
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
T7P4H3O	1x38,4W	3000	5280	30	1130
T7P4H4O	1x38,4W	4000	5440	30	1130
T7P4L3O	1x20,8W	3000	2880	30	1130
T7P4L4O	1x20,8W	4000	2960	30	1130
T7P6H3O	1x57,6W	3000	7920	30	1690
T7P6H4O	1x57,6W	4000	8160	30	1690
T7P6L3O	1x31,2W	3000	4320	30	1690
T7P6L4O	1x31,2W	4000	4440	30	1690



T7P4H3O			T7P4H4O			T7P4L3O			T7P4L4O		
H m	ϕ m	E (0°) lux									
0,5	1,30/1,28	2865	0,5	1,30/1,28	5903	0,5	1,30/1,28	3125	0,5	1,30/1,28	3212
1,0	2,60/2,55	716	1,0	2,60/2,55	1476	1,0	2,60/2,55	781	1,0	2,60/2,55	803
1,5	3,90/3,83	318	1,5	3,90/3,83	656	1,5	3,90/3,83	347	1,5	3,90/3,83	357
2,0	5,19/5,10	179	2,0	5,19/5,10	369	2,0	5,19/5,10	195	2,0	5,19/5,10	201
2,5	6,49/6,38	115	2,5	6,49/6,38	236	2,5	6,49/6,38	125	2,5	6,49/6,38	128
3,0	7,79/7,65	80	3,0	7,79/7,65	164	3,0	7,79/7,65	87	3,0	7,79/7,65	89
103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270		
LO (lm)			LO (lm)			LO (lm)			LO (lm)		
3801,6			3916,8			2073,0			2131,2		
E (lm/W)			E (lm/W)			E (lm/W)			E (lm/W)		
90,0			92,8			90,5			93,0		
P (W)			42,2			22,9			22,9		

T7P6H3O			T7P6H4O			T7P6L3O			T7P6L4O		
H m	ϕ m	E (0°) lux									
0,5	1,30/1,28	8595	0,5	1,30/1,28	4688	0,5	1,30/1,28	5730	0,5	1,30/1,28	4818
1,0	2,60/2,55	2149	1,0	2,60/2,55	1172	1,0	2,60/2,55	1432	1,0	2,60/2,55	1205
1,5	3,90/3,83	955	1,5	3,90/3,83	521	1,5	3,90/3,83	637	1,5	3,90/3,83	535
2,0	5,19/5,10	537	2,0	5,19/5,10	293	2,0	5,19/5,10	358	2,0	5,19/5,10	301
2,5	6,49/6,38	344	2,5	6,49/6,38	188	2,5	6,49/6,38	229	2,5	6,49/6,38	193
3,0	7,79/7,65	239	3,0	7,79/7,65	130	3,0	7,79/7,65	159	3,0	7,79/7,65	134
103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270			103,8° 104,8° co-c180 c90-c270		
LO (lm)			5702,4			3110,4			3196,8		
E (lm/W)			89,9			90,6			93,2		
P (W)			63,4			34,3			34,3		

Trazzo 70



Ceiling Suspended mounting. Washer
Suspendido a techo. Bañador

0 Photobiological Safety
Seguridad Fotobiológica

**UGR
19**

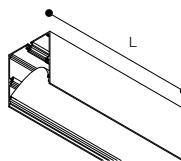
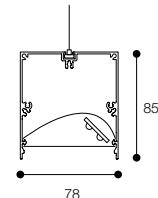


0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 Glare index
Índice de deslumbramiento

104° Opening angle
Ángulo de apertura

60.000 Useful life
Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

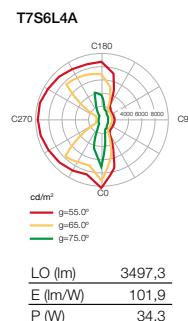
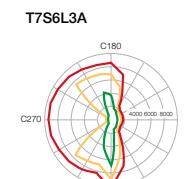
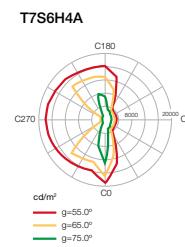
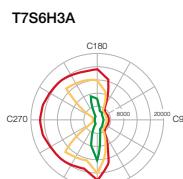
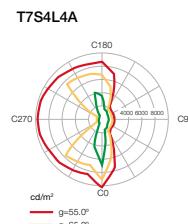
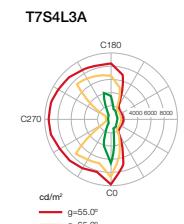
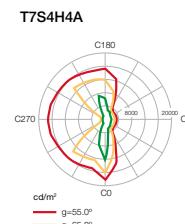
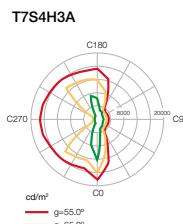
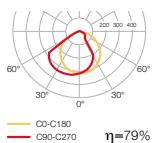
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED T7S4H3A	1x38,4W	3000	5280	30	1130
LED T7S4H4A	1x38,4W	4000	5440	30	1130
LED T7S4L3A	1x20,8W	3000	2880	30	1130
LED T7S4L4A	1x20,8W	4000	2960	30	1130
LED T7S6H3A	1x57,6W	3000	7920	30	1690
LED T7S6H4A	1x57,6W	4000	8160	30	1690
LED T7S6L3A	1x31,2W	3000	4320	30	1690
LED T7S6L4A	1x31,2W	4000	4440	30	1690



Trazzo 70

Ceiling Suspended mounting
Suspendido a techo

0 Photobiological Safety
Seguridad Fotobiológica

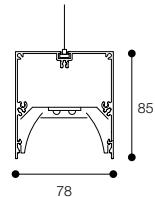
UGR
19



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

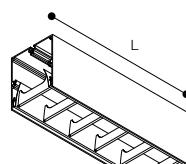
19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura



60.000 | Useful life
L70F10

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

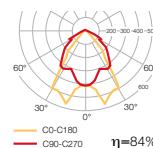
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
T7S4H3L	1x38,4W	3000	5280	30	1130
T7S4H4L	1x38,4W	4000	5440	30	1130
T7S4L3L	1x20,8W	3000	2880	30	1130
T7S4L4L	1x20,8W	4000	2960	30	1130
T7S6H3L	1x57,6W	3000	7920	30	1690
T7S6H4L	1x57,6W	4000	8160	30	1690
T7S6L3L	1x31,2W	3000	4320	30	1690
T7S6L4L	1x31,2W	4000	4440	30	1690



T7S4H3L			T7S4H4L			T7S4L3L			T7S4L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	8727	0,5	1,12/0,68	8992	0,5	1,12/0,68	4760	0,5	1,12/0,68	4893
1,0	2,24/1,36	2182	1,0	2,24/1,36	2248	1,0	2,24/1,36	1190	1,0	2,24/1,36	1223
1,5	3,37/2,05	970	1,5	3,37/2,05	999	1,5	3,37/2,05	529	1,5	3,37/2,05	544
2,0	4,49/2,73	545	2,0	4,49/2,73	562	2,0	4,49/2,73	298	2,0	4,49/2,73	306
2,5	5,61/3,41	349	2,5	5,61/3,41	360	2,5	5,61/3,41	190	2,5	5,61/3,41	196
3,0	6,73/4,09	242	3,0	6,73/4,09	250	3,0	6,73/4,09	132	3,0	6,73/4,09	136
68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270		
LO (lm)	4456,3		LO (lm)	4591,3		LO (lm)	2430,7		LO (lm)	2498,2	
E (lm/W)	105,6		E (lm/W)	108,8		E (lm/W)	106,1		E (lm/W)	109,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T7S6H3L			T7S6H4L			T7S6L3L			T7S6L4L		
H m	ø m	E (0°) lux									
0,5	1,12/0,68	13091	0,5	1,12/0,68	13488	0,5	1,12/0,68	7140	0,5	1,12/0,68	7339
1,0	2,24/1,36	3273	1,0	2,24/1,36	3372	1,0	2,24/1,36	1785	1,0	2,24/1,36	1835
1,5	3,37/2,05	1455	1,5	3,37/2,05	1499	1,5	3,37/2,05	793	1,5	3,37/2,05	815
2,0	4,49/2,73	818	2,0	4,49/2,73	843	2,0	4,49/2,73	446	2,0	4,49/2,73	459
2,5	5,61/3,41	524	2,5	5,61/3,41	540	2,5	5,61/3,41	286	2,5	5,61/3,41	294
3,0	6,73/4,09	364	3,0	6,73/4,09	375	3,0	6,73/4,09	198	3,0	6,73/4,09	204
68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270			68,6° 96,6° co-c180 c90-c270		
LO (lm)	6684,4		LO (lm)	6887,0		LO (lm)	3646,0		LO (lm)	3747,3	
E (lm/W)	105,4		E (lm/W)	108,6		E (lm/W)	106,2		E (lm/W)	109,2	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

Trazzo 70



Ceiling Suspended mounting
Suspendido a techo

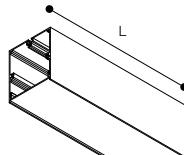
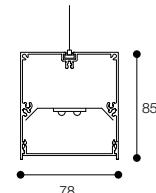


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 | Glare index
Índice de deslumbramiento

104° | Opening angle
Ángulo de apertura

60.000 | Useful life
Vida útil
L70F10



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

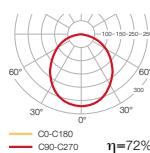
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
T7S4H3O	1x38,4W	3000	5280	30	1130
T7S4H4O	1x38,4W	4000	5440	30	1130
T7S4L3O	1x20,8W	3000	2880	30	1130
T7S4L4O	1x20,8W	4000	2960	30	1130
T7S6H3O	1x57,6W	3000	7920	30	1690
T7S6H4O	1x57,6W	4000	8160	30	1690
T7S6L3O	1x31,2W	3000	4320	30	1690
T7S6L4O	1x31,2W	4000	4440	30	1690



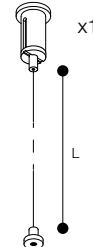
T7S4H3O			T7S4H4O			T7S4L3O			T7S4L4O		
H m	ø m	E (0°) lux									
0,5	1,30/1,28	5730	0,5	1,30/1,28	5903	0,5	1,30/1,28	3125	0,5	1,30/1,28	3212
1,0	2,60/2,55	1432	1,0	2,60/2,55	1476	1,0	2,60/2,55	781	1,0	2,60/2,55	803
1,5	3,90/3,83	637	1,5	3,90/3,83	656	1,5	3,90/3,83	347	1,5	3,90/3,83	357
2,0	5,19/5,10	358	2,0	5,19/5,10	369	2,0	5,19/5,10	195	2,0	5,19/5,10	201
2,5	6,49/6,38	229	2,5	6,49/6,38	236	2,5	6,49/6,38	125	2,5	6,49/6,38	128
3,0	7,79/7,65	159	3,0	7,79/7,65	164	3,0	7,79/7,65	87	3,0	7,79/7,65	89
103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270		
LO (lm)	3801,6		LO (lm)	3916,8		LO (lm)	2073,0		LO (lm)	2131,2	
E (lm/W)	90,0		E (lm/W)	92,8		E (lm/W)	90,5		E (lm/W)	93,0	
P (W)	42,2		P (W)	42,2		P (W)	22,9		P (W)	22,9	

T7S6H3O			T7S6H4O			T7S6L3O			T7S6L4O		
H m	ø m	E (0°) lux									
0,5	1,30/1,28	8595	0,5	1,30/1,28	4688	0,5	1,30/1,28	5730	0,5	1,30/1,28	4818
1,0	2,60/2,55	2149	1,0	2,60/2,55	1172	1,0	2,60/2,55	1432	1,0	2,60/2,55	1205
1,5	3,90/3,83	955	1,5	3,90/3,83	521	1,5	3,90/3,83	637	1,5	3,90/3,83	535
2,0	5,19/5,10	537	2,0	5,19/5,10	293	2,0	5,19/5,10	358	2,0	5,19/5,10	301
2,5	6,49/6,38	344	2,5	6,49/6,38	188	2,5	6,49/6,38	229	2,5	6,49/6,38	193
3,0	7,79/7,65	239	3,0	7,79/7,65	130	3,0	7,79/7,65	159	3,0	7,79/7,65	134
103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270			103,8° 104,8° C0-C180 C90-C270		
LO (lm)	5702,4		LO (lm)	5875,2		LO (lm)	3110,4		LO (lm)	3196,8	
E (lm/W)	89,9		E (lm/W)	92,6		E (lm/W)	90,6		E (lm/W)	93,2	
P (W)	63,4		P (W)	63,4		P (W)	34,3		P (W)	34,3	

ACCESORIES ACCESORIOS

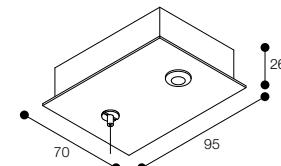
Suspension accessory
Accesorio de suspensión

	L (m)
1029L2	2
1029L4	4



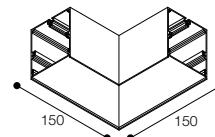
Installation accessory
Accesorio de instalación

	COLOR
ETC1029	■
ETC102910	□



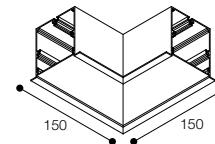
Elbow union accessory
Accesorio codo de unión

	COLOR
TZ70D006	■
TZ70D00610	□



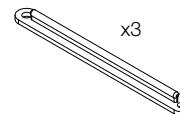
Ceiling recessed elbow union accessory
Accesorio codo de unión versión empotrada

	COLOR
TZ7E006	■
TZ7E00610	□



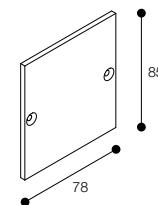
Joining accessory
Accesorio de unión

TZ70D014



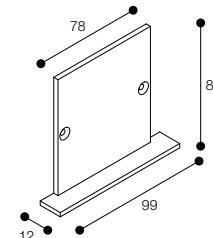
End cover
Tapa final

	COLOR
TZ70D016	■
TZ70D01610	□



End cover recessed mod
Tapa final versión empotradea

	COLOR
TZ70E016	■
TZ70E01610	□



Trazzo Mixto



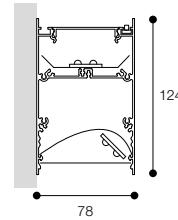
Ceiling surface mounting. Washer. Direct/Indirect
Adosado a techo. Bañador. Directo/Indirecto



Wall surface mounting. Washer. Direct/Indirect
Adosado a pared. Bañador. Directo/Indirecto



0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)



19 Glare index
Índice de deslumbramiento

60.000 Useful life
L70F10 Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

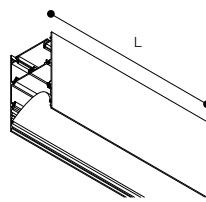
Colour Color



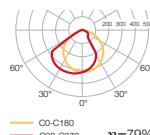
Ref. + B,G



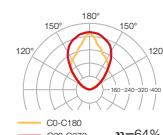
	W	K	LUMEN	IP	L(mm)
TMP4H3A	1x67,2W	3000	9240	30	1130
TMP4H4A	1x67,2W	4000	9520	30	1130
TMP4L3A	1x36,4W	3000	5040	30	1130
TMP4L4A	1x36,4W	4000	5180	30	1130
TMP6H3A	1x105,6W	3000	14520	30	1690
TMP6H4A	1x105,6W	4000	14960	30	1690
TMP6L3A	1x57,2W	3000	7920	30	1690
TMP6L4A	1x57,2W	4000	8140	30	1690



Same curve for all of the fittings
Mismas curvas para todos los equipos



CD-C180
C90-C270
 $\eta = 79\%$



CD-C180
C90-C270
 $\eta = 64\%$

Trazzo Mixto



Ceiling surface mounting. Direct/Indirect
Adosado a techo. Directo/Indirecto



Wall surface mounting. Direct/Indirect
Adosado a pared. Directo/Indirecto

0

Photobiological Safety
Seguridad Fotobiológica



LED



CE



UL



F



850°C



RoHS

0,95

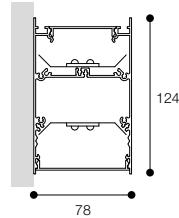
Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19

Glare index
Índice de deslumbramiento

60.000
L70F10

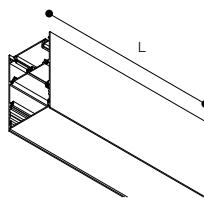
Useful life
Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



Dimmable 1-10v as an option
Regulación 1-10V bajo pedido



Colour Color



B



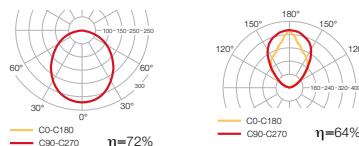
G

Ref. + B,G



	W	K	LUMEN	IP	L(mm)
[LED] TMP4H30	1x67,2W	3000	9240	30	1130
[LED] TMP4H40	1x67,2W	4000	9520	30	1130
[LED] TMP4L30	1x36,4W	3000	5040	30	1130
[LED] TMP4L40	1x36,4W	4000	5180	30	1130
[LED] TMP6H30	1x105,6W	3000	14520	30	1690
[LED] TMP6H40	1x105,6W	4000	14960	30	1690
[LED] TMP6L30	1x57,2W	3000	7920	30	1690
[LED] TMP6L40	1x57,2W	4000	8140	30	1690

Same curve for all of the fittings
Mismas curvas para todos los equipos



Trazzo Mixto



Ceiling Suspended mounting. Washer. Direct/Indirect
Suspendido a techo. Bañador. Directo/Indirecto

0 Photobiological Safety
Seguridad Fotobiológica

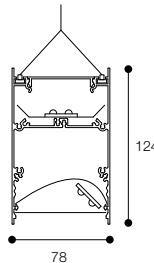
**UGR
19**



0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 Glare index
Índice de deslumbramiento

60.000 Useful life
Vida útil
L70F10



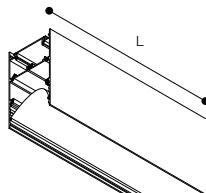
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

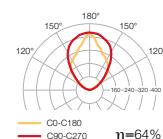
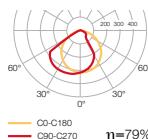


Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED TMS4H3A	1x67,2W	3000	9240	30	1130
LED TMS4H4A	1x67,2W	4000	9520	30	1130
LED TMS4L3A	1x36,4W	3000	5040	30	1130
LED TMS4L4A	1x36,4W	4000	5180	30	1130
LED TMS6H3A	1x105,6W	3000	14520	30	1690
LED TMS6H4A	1x105,6W	4000	14960	30	1690
LED TMS6L3A	1x57,2W	3000	7920	30	1690
LED TMS6L4A	1x57,2W	4000	8140	30	1690

Same curve for all of the fittings
Mismas curvas para todos los equipos



Trazzo Mixto

Ceiling Suspended mounting. Direct/Indirect
Suspendido a techo. Directo/Indirecto

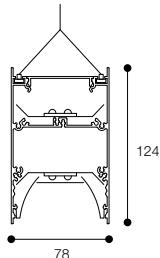
0 Photobiological Safety
Seguridad Fotobiológica



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

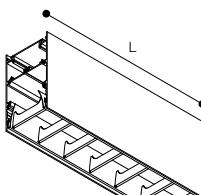
19 | Glare index
Índice de deslumbramiento

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido



Colour Color

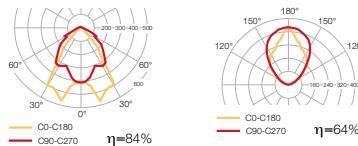


Ref. + B,G



	W	K	LUMEN	IP	L(mm)
[LED] TMS4H3B	1x67,2W	3000	9240	30	1130
[LED] TMS4H4B	1x67,2W	4000	9520	30	1130
[LED] TMS4L3B	1x36,4W	3000	5040	30	1130
[LED] TMS4L4B	1x36,4W	4000	5180	30	1130
[LED] TMS6H3B	1x105,6W	3000	14520	30	1690
[LED] TMS6H4B	1x105,6W	4000	14960	30	1690
[LED] TMS6L3B	1x57,2W	3000	7920	30	1690
[LED] TMS6L4B	1x57,2W	4000	8140	30	1690

Same curve for all of the fittings
Mismas curvas para todos los equipos



Trazzo Mixto



Ceiling Suspended mounting. Direct/Indirect
Suspendido a techo. Directo/Indirecto

0 Photobiological Safety
Seguridad Fotobiológica

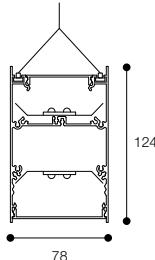


0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

19 | Glare index
Índice de deslumbramiento

60.000 | Useful life
Vida útil
L_{70F10}

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

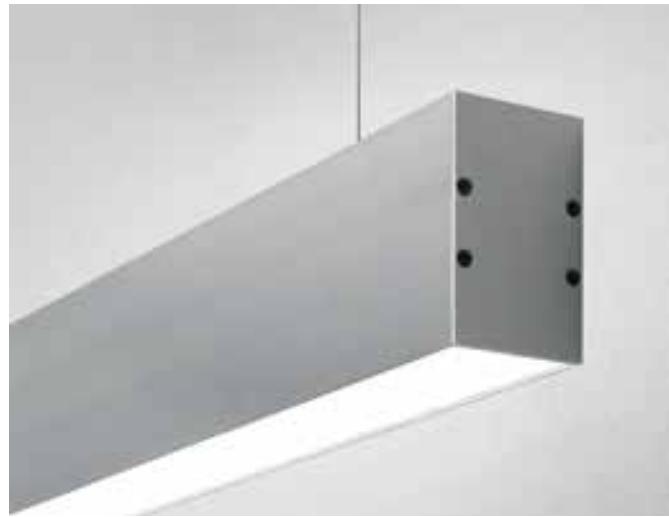
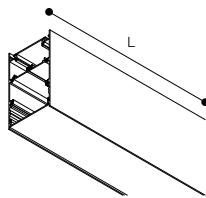


1-10v | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color

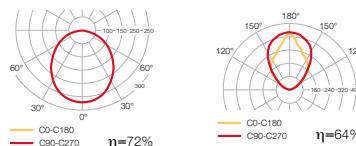


Ref. + B,G



	W	K	LUMEN	IP	L(mm)
LED TMS4H30	1x67,2W	3000	9240	30	1130
LED TMS4H40	1x67,2W	4000	9520	30	1130
LED TMS4L30	1x36,4W	3000	5040	30	1130
LED TMS4L40	1x36,4W	4000	5180	30	1130
LED TMS6H30	1x105,6W	3000	14520	30	1690
LED TMS6H40	1x105,6W	4000	14960	30	1690
LED TMS6L30	1x57,2W	3000	7920	30	1690
LED TMS6L40	1x57,2W	4000	8140	30	1690

Same curve for all of the fittings
Mismas curvas para todos los equipos

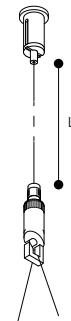


Trazzo Mixto

ACCESORIES ACCESORIOS

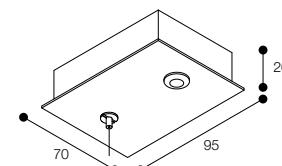
Suspension accessory
Accesorio de suspensión

1029TZL70 L (m)
..... 2



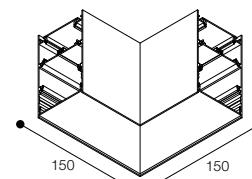
Installation accessory
Accesorio de instalación

ETC1029 COLOR
ETC102910 □



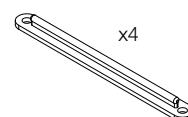
Elbow union accessory
Accesorio codo de unión

TZ70M006 COLOR
TZ70M00610 □



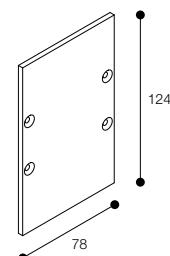
Joining accessory
Accesorio de unión

TZ70M014 x4



End cover
Tapa final

TZ70M016 COLOR
TZ70M01610 □



Trazzo Mural



Wall surface mounting. Direct/Indirect
Adosado a pared. Directo/Indirecto



0,95

Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Colour Color

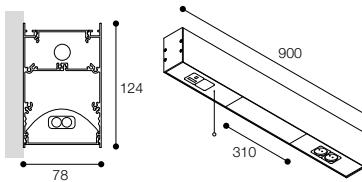


Ref. + B,G

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

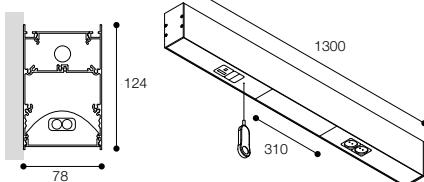


HTZ70M1

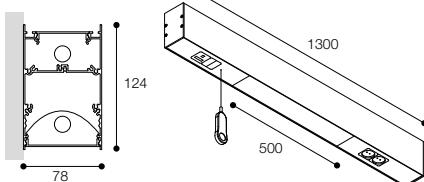


	W	K	LUMEN	IP
HTZ70M1000	24W(T5)+24W(TC-L)	4000	4080	30
HTZ70M2000	54W(T5)+24W(TC-L)	4000	6630	30
HTZ70M3000	54W(T5)+24W(T5)	4000	6630	30

HTZ70M2



HTZ70M3



Trazzo Mural



Wall surface mounting
Adosado a pared



0,95

Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

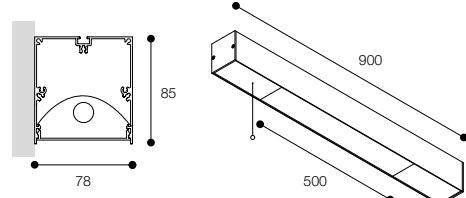
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Colour Color



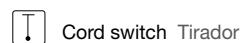
Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Ref. + B,G



	W	K	LUMEN	IP
HTZ70D1000	1x24W(T5)	4000	1750	30

KEY LEYENDA



Cord switch Tirador



Nurse call Llamada de enfermera



Data socket RJ-45 Toma de datos RJ-45



Wide switch Interruptor ancho



Narrow switch Interruptor estrecho



Wide change-over switch Comutador ancho



Narrow change-over switch Comutador estrecho



Plug Enchufe



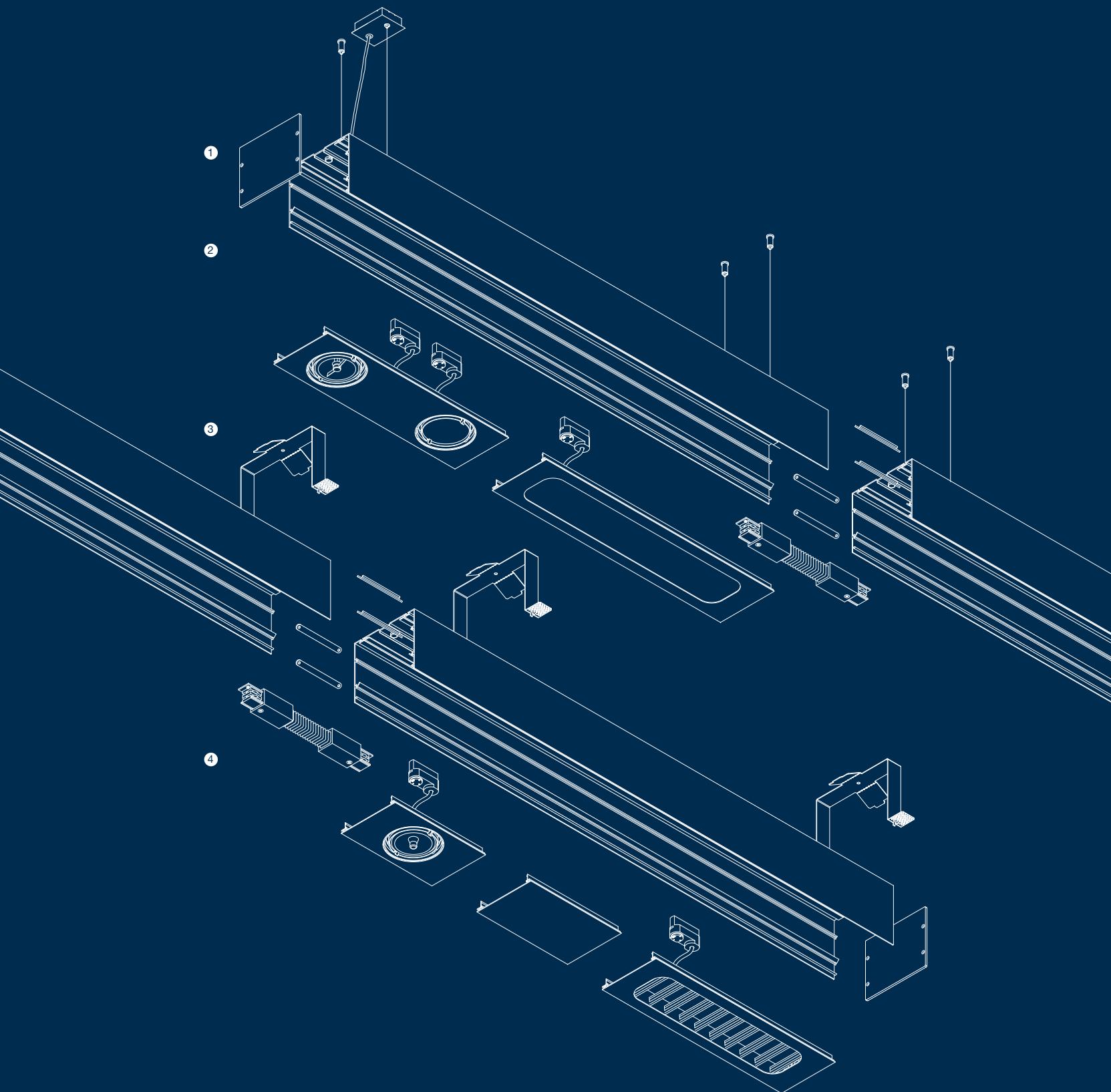
HTZ70D1000	1	-	-	-	-	-	-	-
HTZ70M1000	1	-	1	-	-	1	-	2
HTZ70M2000	-	1	1	-	1	-	1	2
HTZ70M3000	-	1	1	-	1	-	1	2



Cosmos

COSMOS is a mixed structural system for spot and linear lighting. Based on an extruded and lacquered aluminum profile housing. It might be displayed as suspended, recessed or even ceiling mounted fitting. The set is completed by lighting modules with fast installation system which allow to change the working properties at any step; before, during or even after the installation.

COSMOS es un sistema estructural mixto de proyección e iluminación lineal. Se basa en un perfil contenedor de perfil de aluminio extrusionado y lacado. Se puede instalar suspendido, empotrado e incluso adosado a techo. El conjunto se completa con módulos de iluminación de instalación rápida que permiten variar las características lumínicas de la obra en cualquier momento; antes, durante o incluso después de la instalación.



●

INITIAL-END COVERS

It's sold separately and a live-end connector is included. A few openings is added for ceiling recessed version.

TAPA INICIAL/FINAL

Se sirven por separado e incluyen las terminales del carril electrificado. En la versión empotrada, las tapas incorporan ranuras de ventilación.

●

EXTERNAL PROFILE

For every configurations and it is made from 900 mm to 2.400 mm lenght. Includes a three phase track to give electrical continuity at whole light band with just one supply connection.

PERFIL EXTERNO

Para todas las configuraciones y disponible a partir de 900 mm hasta 2.400 mm. Incorpora un carril electrificado que garantiza continuidad eléctrica en todos los tramos y con una sola acometida.

●

INSTALLATION

There will be three options: suspended, ceiling surfaced or ceiling recessed. Once it is selected, the system assign the installation accessories to each case.

INSTALACIÓN

De tres tipos: suspendida, adosada o empotrada a techo. Una vez seleccionada, se asignarán los accesorios de instalación correspondientes.

●

MODULES

Available like spot lighting or like fluorescent fittings, the modules count on a joining system that make the installation easier. The electrical connection is made by a standard euro-track adapter.

MÓDULOS

Configurables como proyectores o como pantallas de fluorescencia, se instalan con un clipaje que agiliza y simplifica el montaje. La conexión eléctrica se hace mediante un adaptador estándar.

Cosmos



Ceiling Suspended mounting
Suspendido a techo



Ceiling surface mounting
Adosado a techo



Ceiling recessed
Empotrado a techo

EXTERNAL PROFILE PERFIL EXTERNO



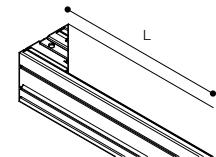
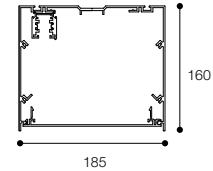
Colour Color



Ref. + B,N

L(mm)

CS3P0300	300
CS3P0600	600
CS3P0900	900
CS3P1200	1200
CS3P1500	1500
CS3P1800	1800
CS3P2100	2100
CS3P2400	2400



BLIND MODULES MÓDULOS CIEGOS



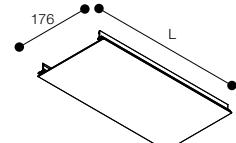
Colour Color



Ref. + B,N

L (mm)

CS3T0300	300
CS3T0600	600
CS3T0900	900
CS3T1200	1200
CS3T1500	1500

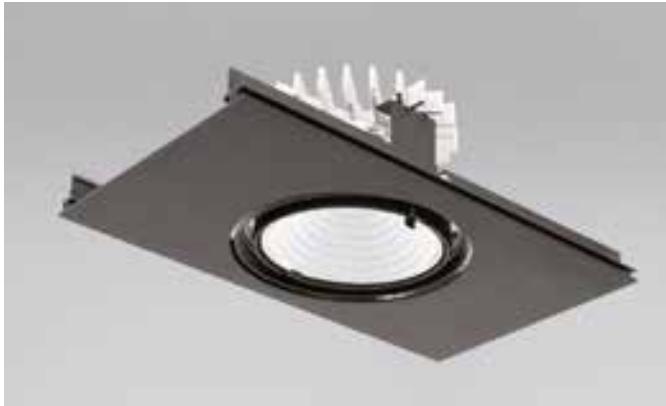
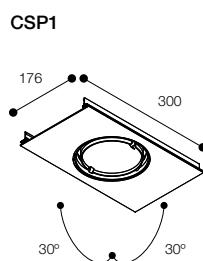


Cosmos



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

104° | Opening angle
Ángulo de apertura



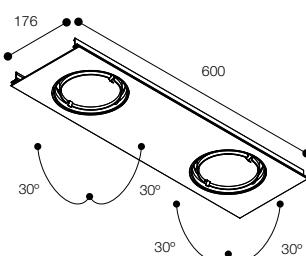
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

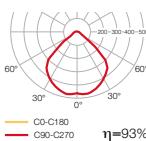
Colour Color



Ref. + B,N



	W	K	LUMEN	IP
CSP123F	1x16,3W	3000	1875	20
CSP124F	1x16,3W	4000	2000	20
CSP223F	1x32,6W	3000	3750	20
CSP224F	1x32,6W	4000	4000	20



CSP123F			CSP124F		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,08	3474	0,5	1,08	3706
1,0	2,17	869	1,0	2,17	927
1,5	3,25	386	1,5	3,25	412
2,0	4,33	217	2,0	4,33	232
2,5	5,42	139	2,5	5,42	148
3,0	6,50	97	3,0	6,50	103
CO-C180 94,6°			CO-C180 94,6°		
LO (lm) 1747,5			LO (lm) 1864,0		
E (lm/W) 97,0			E (lm/W) 103,5		
P (W) 18,0			P (W) 18,0		

CSP223F

H m	ø m	E (0°) lux
0,5	1,08	6949
1,0	2,17	1737
1,5	3,25	772
2,0	4,33	434
2,5	5,42	278
3,0	6,50	193

CO-C180 94,6°
LO (lm) 3495,0
E (lm/W) 97,0
P (W) 36,0

CSP224F

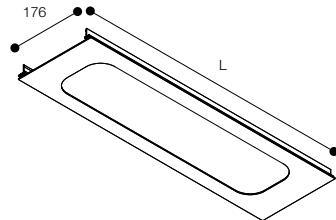
H m	ø m	E (0°) lux
0,5	1,08	7412
1,0	2,17	1853
1,5	3,25	824
2,0	4,33	463
2,5	5,42	296
3,0	6,50	206

CO-C180 94,6°
LO (lm) 3728,0
E (lm/W) 103,5
P (W) 36,0



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

104° | Opening angle
Ángulo de apertura



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

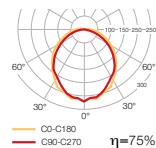
Colour Color



Ref. + B,N



	W	K	LUMEN	IP	L (mm)
CSS23O	1x20,8W	3000	2880	20	600
CSS24O	1x20,8W	4000	2960	20	600
CSS43O	1x41,6W	3000	5760	20	1200
CSS44O	1x41,6W	4000	5920	20	1200



	CSS23O			CSS24O				
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux		
0,5	1,23/1,46	3121		0,5	1,23/1,46	3208		
1,0	2,46/2,91	780		1,0	2,46/2,91	802		
1,5	3,69/4,37	347		1,5	3,69/4,37	356		
2,0	4,92/5,82	195		2,0	4,92/5,82	200		
2,5	6,15/7,28	125		2,5	6,15/7,28	128		
3,0	7,38/8,73	87		3,0	7,38/8,73	89		
111,0° 101,8° co-C180 c90-C270			111,0° 101,8° co-C180 c90-C270					
LO (lm)	2160,0		LO (lm)	2220,0				
E (lm/W)	94,3		E (lm/W)	96,9				
P (W)	22,9		P (W)	22,9				

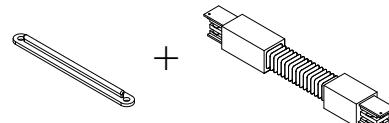
	CSS43O			CSS44O				
	H m	ϕ m	E (0°) lux	H m	ϕ m	E (0°) lux		
0,5	1,23/1,46	6243		0,5	1,23/1,46	6416		
1,0	2,46/2,91	1561		1,0	2,46/2,91	1604		
1,5	3,69/4,37	694		1,5	3,69/4,37	713		
2,0	4,92/5,82	390		2,0	4,92/5,82	401		
2,5	6,15/7,28	250		2,5	6,15/7,28	257		
3,0	7,38/8,73	173		3,0	7,38/8,73	178		
111,0° 101,8° co-C180 c90-C270			111,0° 101,8° co-C180 c90-C270					
LO (lm)	4320,0		LO (lm)	4440,0				
E (lm/W)	94,3		E (lm/W)	96,9				
P (W)	45,8		P (W)	45,8				

Cosmos

ACCESORIES ACCESORIOS

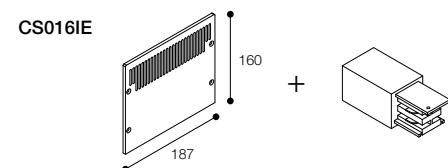
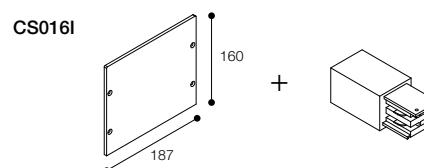
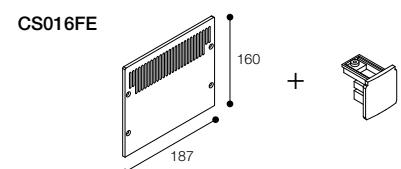
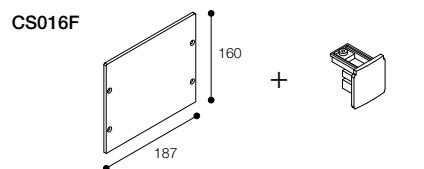
Elbow union accessory
Accesorio codo de unión

	COLOR
CS014	<input type="checkbox"/> <input checked="" type="checkbox"/>



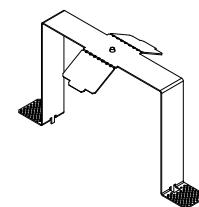
Cover
Tapa

	COLOR
CS016F	<input type="checkbox"/> <input checked="" type="checkbox"/>
CS016FE	<input type="checkbox"/> <input checked="" type="checkbox"/>
CS016I	<input type="checkbox"/> <input checked="" type="checkbox"/>
CS016IE	<input type="checkbox"/> <input checked="" type="checkbox"/>



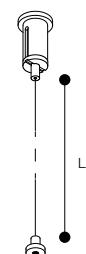
Recessed accessory
Accesorio de empotramiento

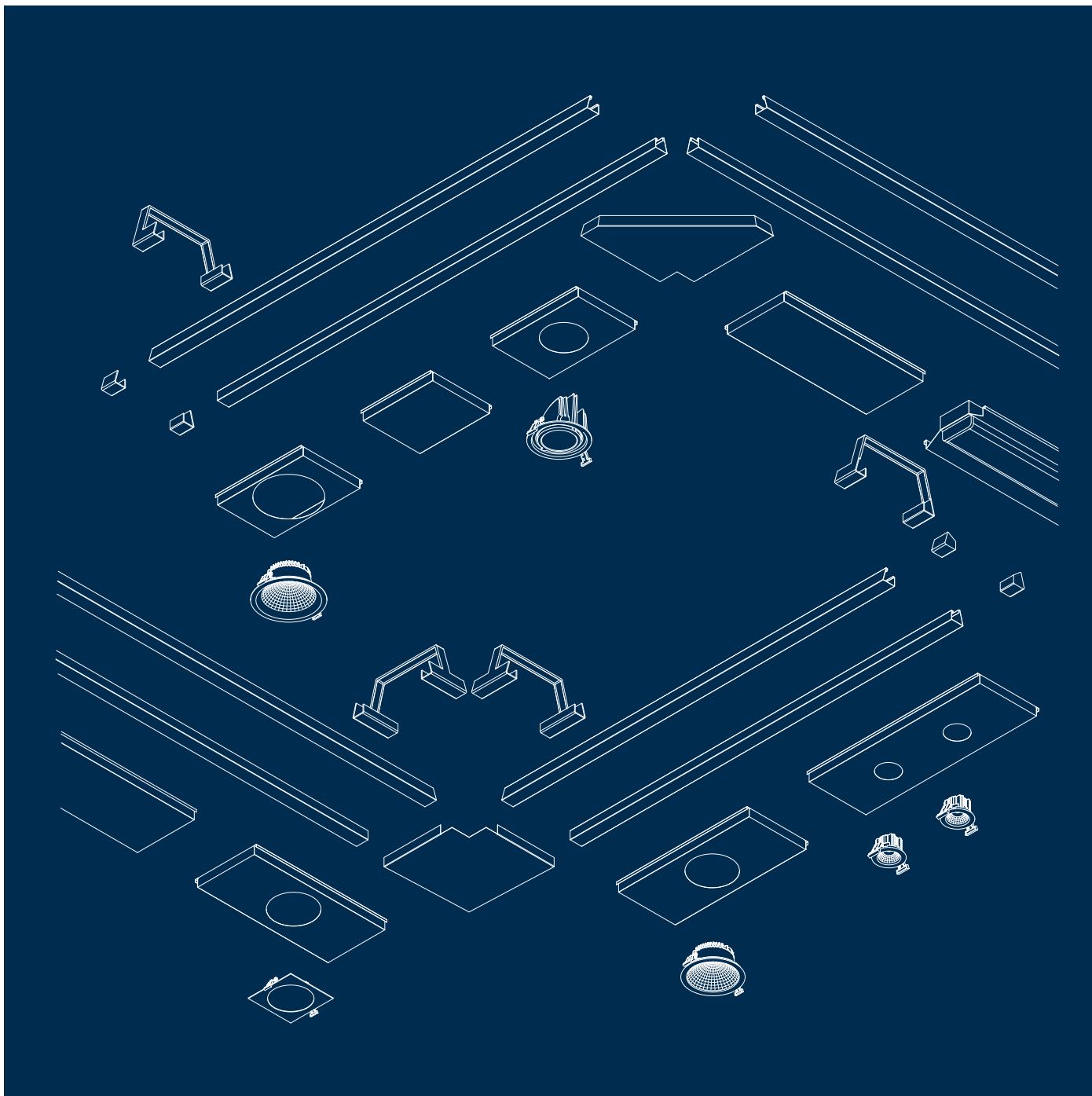
	COLOR
CS0312	<input type="checkbox"/> <input checked="" type="checkbox"/>
CS0313	<input type="checkbox"/> <input checked="" type="checkbox"/>
CS0314	<input type="checkbox"/> <input checked="" type="checkbox"/>



Suspension accessory
Accesorio de suspensión

	L (m)
CS1029L2	2
CS1029L2A	2





Contelux

Contelux is a versatile structure which can be fitted a wide range of lighting systems by means of metallic trays. Contelux structures can be fixed directly to ceiling or can be fitted with standard suspensions.

Trays can be blank or prepared for luminaires, emergency, signs, speakers, electric sockets, security systems...

El sistema Contelux es una estructura extraordinariamente versátil, sobre la cual se puede instalar, mediante bandejas metálicas, una amplia variedad de luminarias. Las estructuras Contelux pueden fijarse directamente al techo o incorporar suspensiones estándar.

Las bandejas pueden ser ciegas o incorporar luminarias, emergencia, señalética, megafonía, tomas eléctricas, sistemas de seguridad...

Contelux



Ceiling Suspended mounting
Suspendido a techo



Ceiling recessed
Empotrado a techo

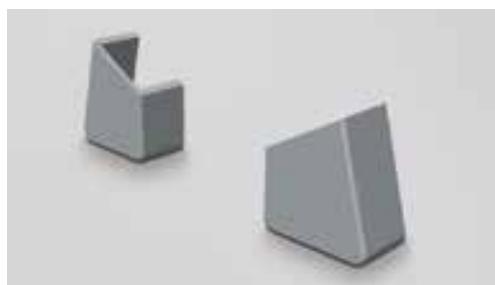
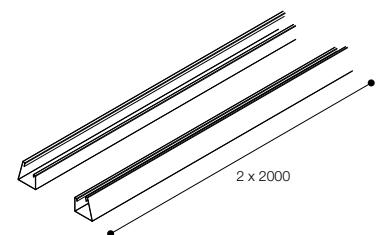
NEW



Rail Set 2000 mm
Conjunto Rail de 2x2000 mm

MC2000

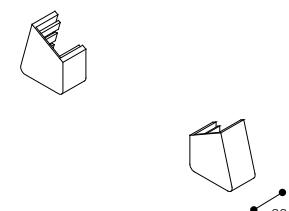
COLOR



2 end cover set
Conjunto de 2 tapas finales

M016

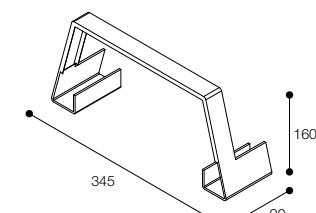
COLOR



End bridge bracket
Puente terminal

MSI

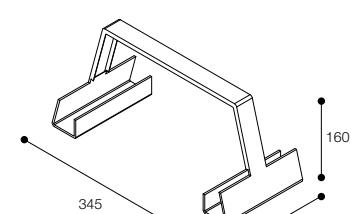
COLOR



Intermediate bridge bracket
Puente intermedio

MSM

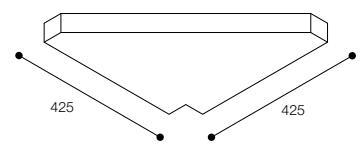
COLOR



L connector
Conector en L

MC250

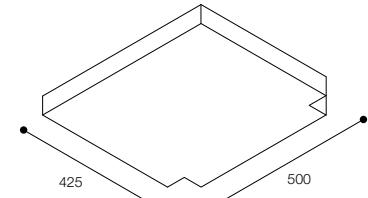
COLOR





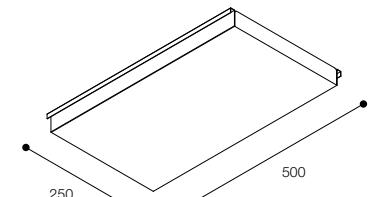
T Connector
Conector en T

	COLOR
MT250	□ ■ ■



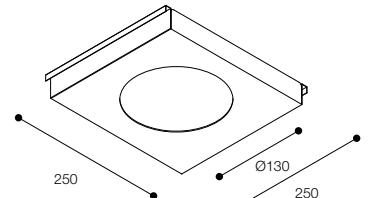
Blind tray
Bandeja ciega

	COLOR	L
M250	□ ■ ■	250
M500	□ ■ ■	500
M750	□ ■ ■	750



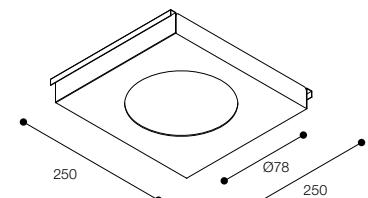
Downlight Elit mini tray
Bandeja para Downlight Elit mini

	COLOR
M250EM	□ ■ ■



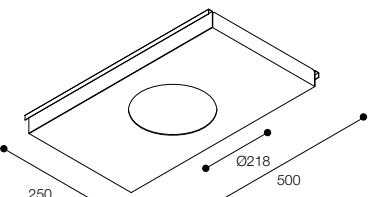
Downlight Elit micro tray
Bandeja para Downlight Elit micro

	COLOR
M250EP	□ ■ ■



Downlight Elit tray
Bandeja para Downlight Elit

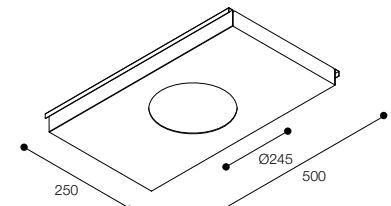
	COLOR
M500EL	□ ■ ■





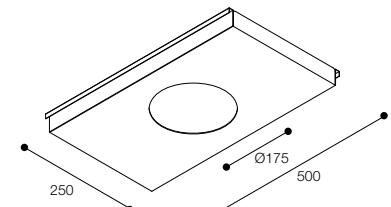
Downlight Elit Max tray
Bandeja para Downlight Elit Max

COLOR
M500EE



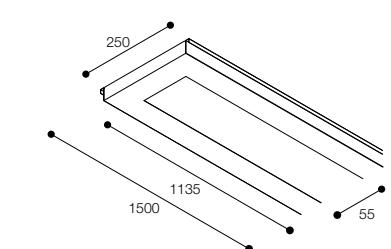
Downlight Dorfin tray
Bandeja para Downlight Dorfin

COLOR
M500D



Downlight Linnea tray
Bandeja para Downlight Linnea

COLOR
M1500L





Sycom



SYCOM is a suspended lighting system that creates a geometry itself for each installation. The different modules can be attached to each other in many ways.

SYCOM es un sistema de iluminación suspendido que permite crear una geometría propia para cada instalación. Los diferentes módulos pueden unirse entre sí de múltiples formas.

Sycom



Ceiling Suspended mounting.
Direct/Indirect
Suspendido a techo. Directo/Indirecto

NEW

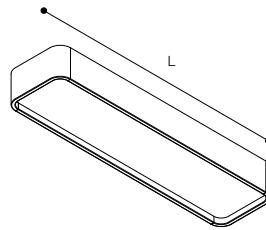
0 Photobiological Safety
Seguridad Fotobiológica



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

105° | Opening angle
Ángulo de apertura

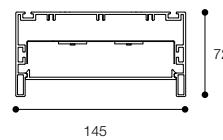
60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

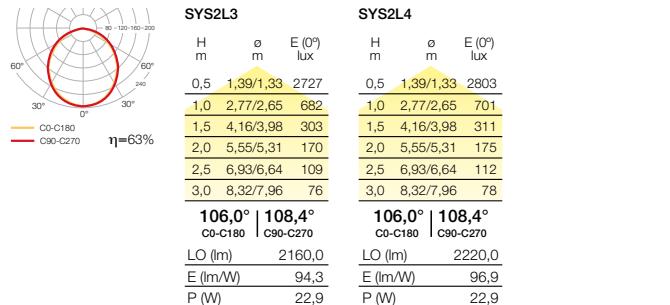
Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP	L(mm)
SYS2L3	1x20,8W	3000	2880	30	584
SYS2L4	1x20,8W	4000	2960	30	584
SYS4L3	1x41,6W	3000	5760	30	1144
SYS4L4	1x41,6W	4000	5920	30	1144

	W	K	LUMEN	IP	L(mm)
SYS2L3D	1x20,8W	3000	2880	30	584
SYS2L4D	1x20,8W	4000	2960	30	584
SYS4L3D	1x41,6W	3000	5760	30	1144
SYS4L4D	1x41,6W	4000	5920	30	1144



	W	K	LUMEN	IP	L(mm)
SYS4L3	1x41,6W	3000	5760	30	1144
SYS4L4	1x41,6W	4000	5920	30	1144
SYS4L3D	1x41,6W	3000	5760	30	1144
SYS4L4D	1x41,6W	4000	5920	30	1144

Sycom Proyector



Ceiling Suspended mounting. Direct/Indirect
Suspendido a techo. Directo/Indirecto



Opal diffuser
Difusor opal



0 Photobiological Safety
Seguridad Fotobiológica



0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

88° Opening angle
Ángulo de apertura

60.000 Useful life
L70F10 Vida útil

Expandable to 5 years warranty

(depending on project)

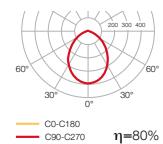
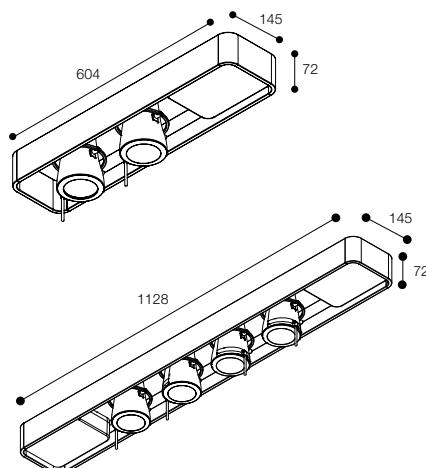
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



B



SYP2230

SYP2240

H	ø	E (0°)	lux
0,5	0,97	5938	
1,0	1,93	1484	
1,5	2,90	660	
2,0	3,86	371	
2,5	4,83	238	
3,0	5,79	165	

CO-C180 88,0°

CO-C180 88,0°

LO (lm)	2992,5
E (lm/W)	83,1
P (W)	36,0

CO-C180 3192,0

SYP4230
H
m
ø
m
E (0°)
lux

SYP4240

CO-C180 12667

0,5	0,97	11876
1,0	1,93	2969
1,5	2,90	1320
2,0	3,86	742
2,5	4,83	475
3,0	5,79	330

CO-C180 88,0°

LO (lm)	5985,0
E (lm/W)	83,1
P (W)	72,0

CO-C180 6384,0

Sycom Proyector



Ceiling Suspended mounting. Direct/Indirect
Suspendido a techo. Directo/Indirecto



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

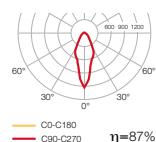
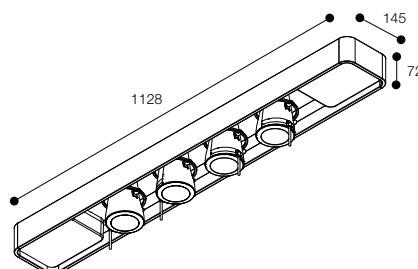
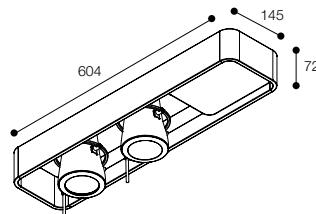
32° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



SYP223S

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,29	18353	0,5	0,29	19582
1,0	0,57	4590	1,0	0,57	4896
1,5	0,86	2040	1,5	0,86	2176
2,0	1,15	1147	2,0	1,15	1224
2,5	1,43	734	2,5	1,43	783
3,0	1,72	510	3,0	1,72	544

C0-C180 32,0°

SYP224S

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,29	19582	0,5	0,29	19582
1,0	0,57	4896	1,0	0,57	4896
1,5	0,86	2176	1,5	0,86	2176
2,0	1,15	1224	2,0	1,15	1224
2,5	1,43	783	2,5	1,43	783
3,0	1,72	544	3,0	1,72	544

C0-C180 32,0°

LO (lm)	3296,2	LO (lm)	3516,0
E (lm/W)	91,5	E (lm/W)	97,6
P (W)	36,0	P (W)	36,0

SYP423S

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,29	36717	0,5	0,29	39165
1,0	0,57	9179	1,0	0,57	9791
1,5	0,86	4080	1,5	0,86	4352
2,0	1,15	2295	2,0	1,15	2448
2,5	1,43	1469	2,5	1,43	1567
3,0	1,72	1020	3,0	1,72	1088

C0-C180 32,0°

SYP424S

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	0,29	39165	0,5	0,29	39165
1,0	0,57	9791	1,0	0,57	9791
1,5	0,86	4352	1,5	0,86	4352
2,0	1,15	2448	2,0	1,15	2448
2,5	1,43	1567	2,5	1,43	1567
3,0	1,72	1088	3,0	1,72	1088

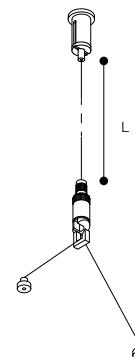
C0-C180 32,0°

ACCESORIES ACCESORIOS

Suspension accessory
Accesorio de suspensión

1029SYS L (m)

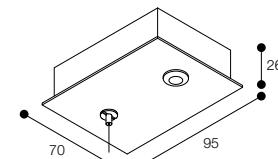
2



Installation accessory
Accesorio de instalación

ETC102910 COLOR

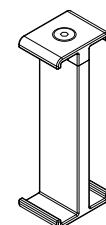
□



Joining accessory
Accesorio de unión

SY014 COLOR

□

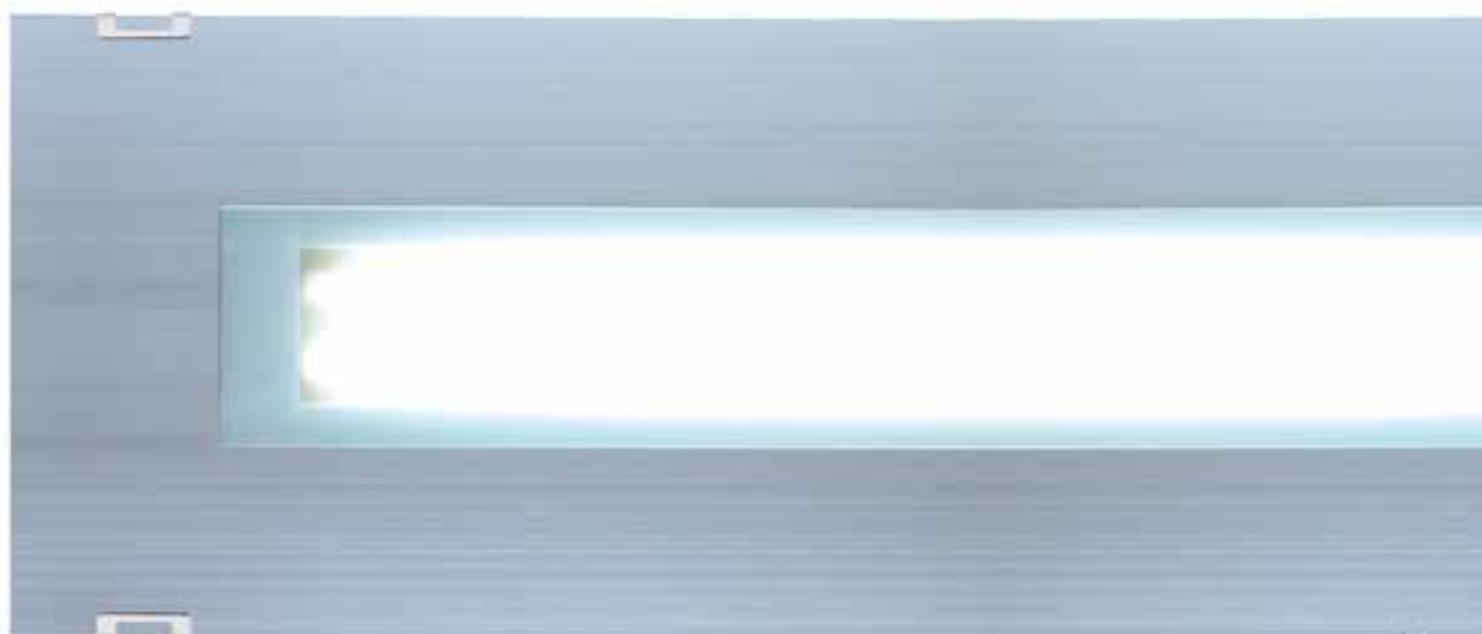




Essentia

ESSENTIA is a spatial fitting. Manufactured with extruded and anodized aluminium profiles it is overall noteworthy its flat shape and its decorative glass. Designed as a suspended fitting it might be also wall mounted. Specially designed for T5 fluorescence lamps.

ESSENTIA es una luminaria espacial. Fabricada con perfiles de aluminio extruido y anodizado destacan por encima de todo su planitud y su cristal decorativo. Diseñada para ser suspendida puede instalarse también adosada a pared. Específicamente diseñada para fluorescencia lineal T5.



Essentia



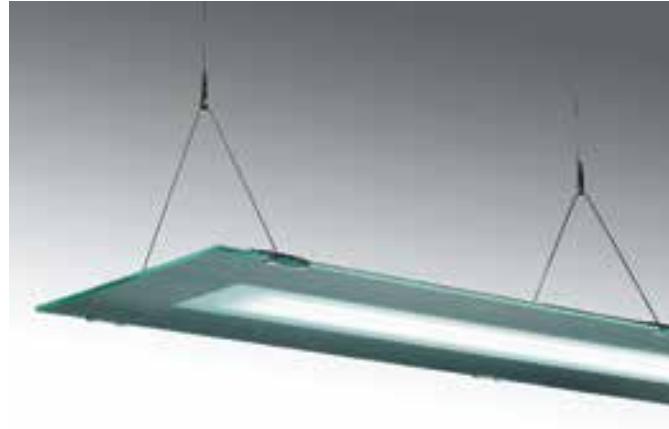
Ceiling Suspended mounting
Suspendido a techo



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

58 | Performance
Rendimiento

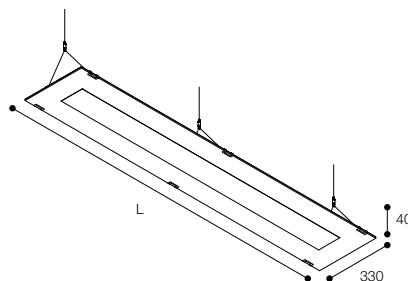
106° | Opening angle
Ángulo de apertura



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP	L(mm)
E SSD228	2x38W	4000	5200	30	1430
E SSD254	2x54W	4000	8900	30	1430

ESSD228			ESSD254		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,28/1,42	4331	0,5	1,28/1,42	7413
1,0	2,56/2,85	1083	1,0	2,56/2,85	1853
1,5	3,84/4,27	481	1,5	3,84/4,27	824
2,0	5,12/5,69	271	2,0	5,12/5,69	463
2,5	6,40/7,11	173	2,5	6,40/7,11	297
3,0	7,68/8,54	120	3,0	7,68/8,54	206
109,8° 104,0°			109,8° 104,0°		
co-c180 c90-c270			co-c180 c90-c270		
LO (lm)			LO (lm)		
E (lm/W)			E (lm/W)		
P (W)			P (W)		

Essentia



Ceiling Suspended mounting. Direct/Indirect
Suspendido a techo. Directo/Indirecto



0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

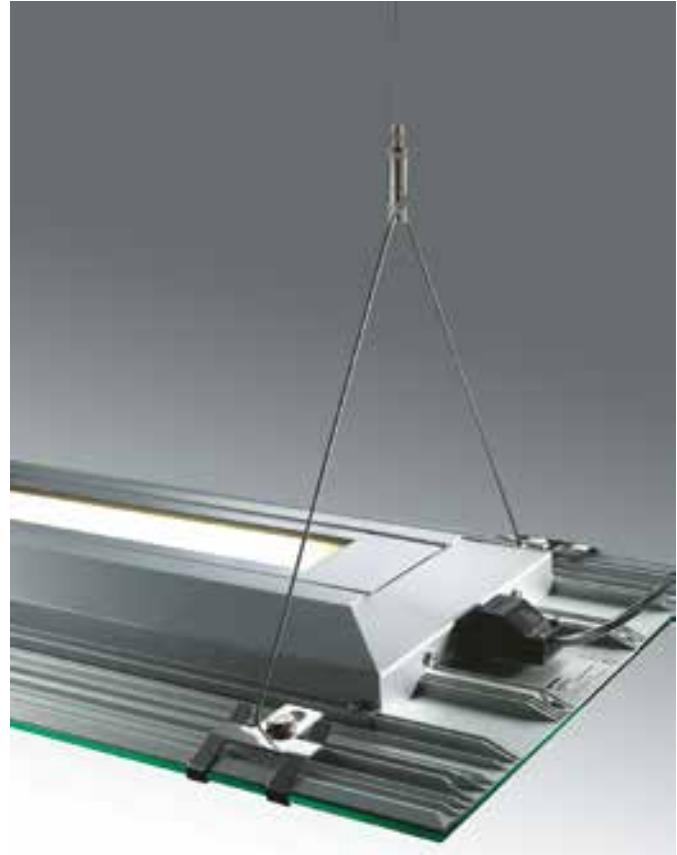
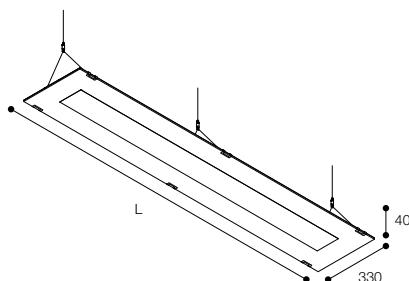
77,5 | Performance
Rendimiento

106° | Opening angle
Ángulo de apertura

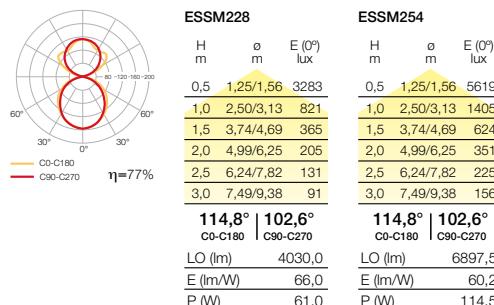
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



	W	K	LUMEN	IP	L(mm)
ESSM228	2x28W	4000	5200	30	1430
ESSM254	2x54W	4000	8900	30	1430

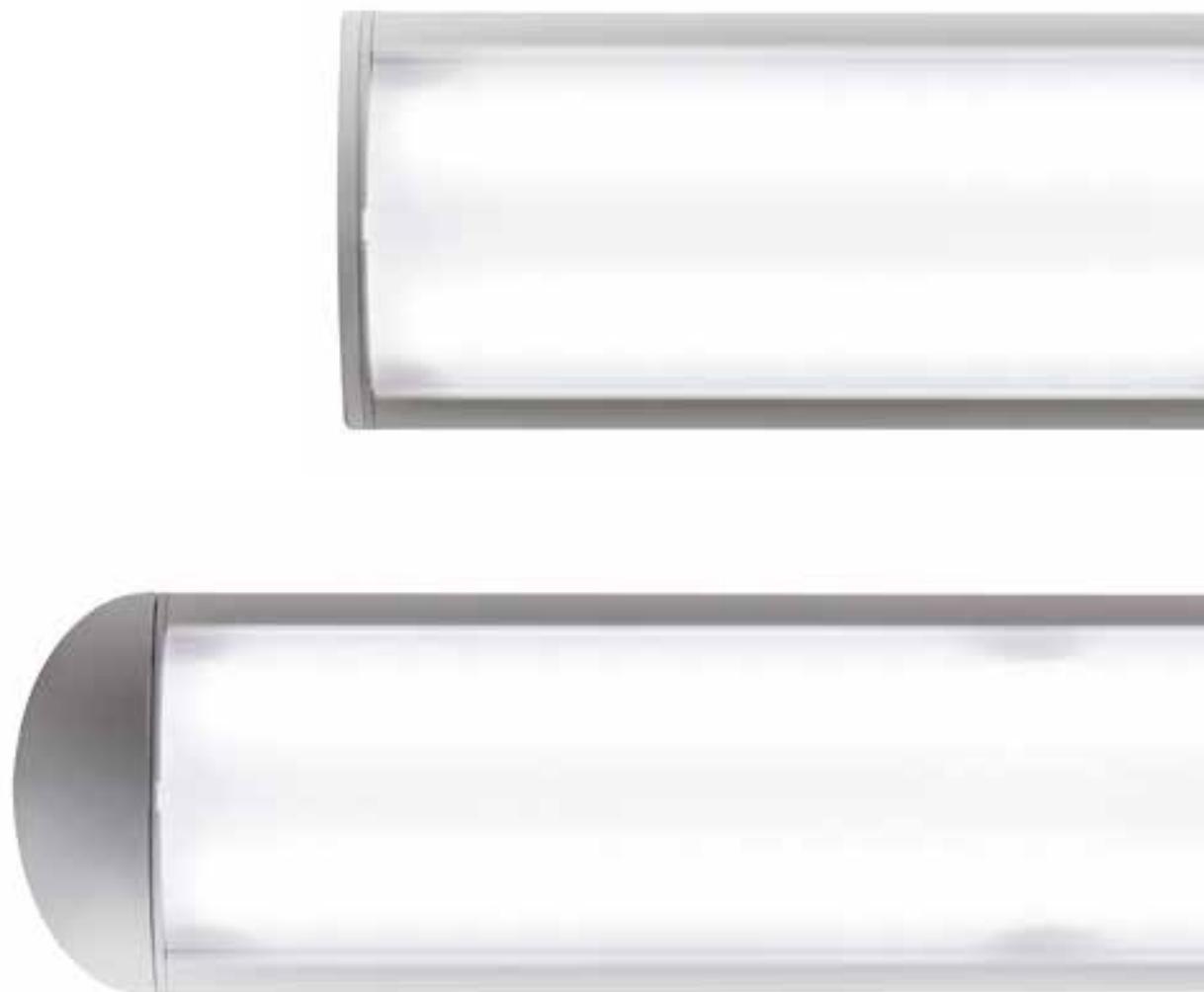




Coral

CORAL is a LED lighting system based on an extruded and lacquered aluminium profile. It might be displayed as suspended or a ceiling mounted fitting. Ideal solution for lineal structures of light.

CORAL es un sistema de iluminación LED basado en un perfil de aluminio extruido y lacado. Puede ser una luminaria suspendida o adosada a techo. Ideal para instalaciones donde se necesitan una estructura luminosa lineal.



Coral



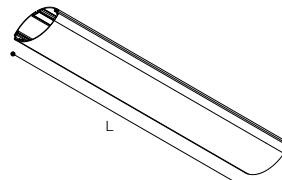
Ceiling surface mounting
Adosado a techo



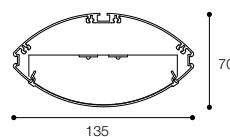
Ceiling Suspended
mounting
Suspension a techo



0,95	Power factor ($\cos \phi$) Factor de potencia ($\cos \phi$)
75	Performance Rendimiento
106°	Opening angle Ángulo de apertura
60.000 L70F10	Useful life Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

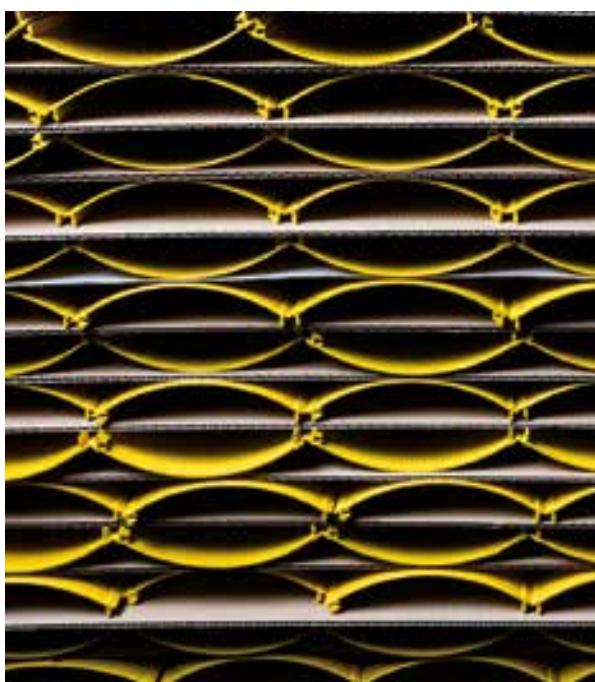


Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



Ref. + B,G,N



	W	K	LUMEN	IP	L(mm)
LED C23LO	1x20,8W	3000	2880	30	580
LED C24LO	1x20,8W	4000	2960	30	580
LED C43LO	1x41,6W	3000	5760	30	1140
LED C44LO	1x41,6W	4000	5920	30	1140

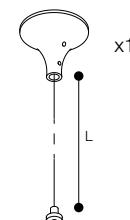
C23LO			C24LO		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,23/1,46	3121	0,5	1,23/1,46	3208
1,0	2,46/2,91	780	1,0	2,46/2,91	802
1,5	3,69/4,37	347	1,5	3,69/4,37	356
2,0	4,92/5,82	195	2,0	4,92/5,82	200
2,5	6,15/7,28	125	2,5	6,15/7,28	128
3,0	7,38/8,73	87	3,0	7,38/8,73	89
111,0° 101,8° co-C180 c90-C270			111,0° 101,8° co-C180 c90-C270		
LO (lm)	2160,0		LO (lm)	2220,0	
E (lm/W)	94,3		E (lm/W)	96,9	
P (W)	22,9		P (W)	22,9	

C43LO			C44LO		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,23/1,46	6243	0,5	1,23/1,46	6416
1,0	2,46/2,91	1561	1,0	2,46/2,91	1604
1,5	3,69/4,37	694	1,5	3,69/4,37	713
2,0	4,92/5,82	390	2,0	4,92/5,82	401
2,5	6,15/7,28	250	2,5	6,15/7,28	257
3,0	7,38/8,73	173	3,0	7,38/8,73	178
111,0° 101,8° co-C180 c90-C270			111,0° 101,8° co-C180 c90-C270		
LO (lm)	4320,0		LO (lm)	4440,0	
E (lm/W)	94,3		E (lm/W)	96,9	
P (W)	45,8		P (W)	45,8	

ACCESORIES ACCESORIOS

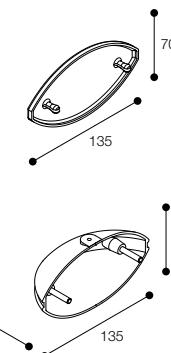
Suspension accessory
Accesorio de suspensión

	COLOR	L (m)
1027	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■	4
1028	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■	2



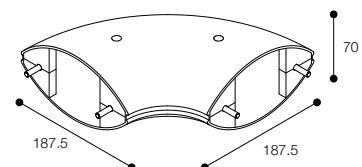
End cover
Tapa final

	COLOR
C015	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■
C0161	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■
C0162	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■



Elbow union accessory
Accesorio codo de unión

	COLOR
C0061	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■
C0062	<input type="checkbox"/> ■ <input checked="" type="checkbox"/> ■ <input type="checkbox"/> ■





Zafiro

ZAFIRO is a spatial system of reduced dimensions. Specially designed for LED light sources, it is built in aluminum profile.

ZAFIRO es un sistema espacial de reducidas dimensiones. Especialmente diseñado para fuentes de luz LED, está construido en perfil de aluminio.

Zafiro



Ceiling surface mounting
Adosado a techo



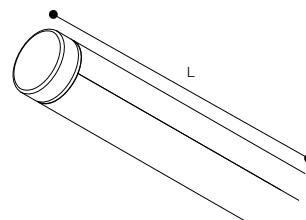
Ceiling Suspended
mounting
Suspendido a techo



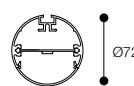
0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

100° | Opening angle
Ángulo de apertura

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)



1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

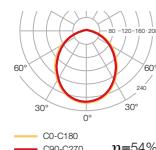
Colour Color



Ref. + B,G



	W	K	LUMEN	IP	L(mm)
[LED] Z4H3O	1x38,4W	3000	5280	30	1190
[LED] Z4H4O	1x38,4W	4000	5440	30	1190
[LED] Z4L3O	1x20,8W	3000	2880	30	1190
[LED] Z4L4O	1x20,8W	4000	2960	30	1190
[LED] Z6H3O	1x57,6W	3000	7920	30	1750
[LED] Z6H4O	1x57,6W	4000	8160	30	1750
[LED] Z6L3O	1x57,6W	3000	4320	30	1750
[LED] Z6L4O	1x57,6W	4000	4440	30	1750



H m	ø m	E (0°) lux
0,5	1,18/1,24	4557
1,0	2,37/2,48	1139
1,5	3,55/3,72	506
2,0	4,73/4,96	285
2,5	5,92/6,20	182
3,0	7,10/7,44	127

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 2861,7

E (lm/W) 67,8

P (W) 42,2

Z4H3O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	4557	0,5	1,18/1,24	4695	0,5	1,18/1,24	2486	0,5	1,18/1,24	2555
1,0	2,37/2,48	1139	1,0	2,37/2,48	1174	1,0	2,37/2,48	621	1,0	2,37/2,48	639
1,5	3,55/3,72	506	1,5	3,55/3,72	522	1,5	3,55/3,72	276	1,5	3,55/3,72	284
2,0	4,73/4,96	285	2,0	4,73/4,96	293	2,0	4,73/4,96	155	2,0	4,73/4,96	160
2,5	5,92/6,20	182	2,5	5,92/6,20	188	2,5	5,92/6,20	99	2,5	5,92/6,20	102
3,0	7,10/7,44	127	3,0	7,10/7,44	130	3,0	7,10/7,44	69	3,0	7,10/7,44	71

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 1560,9

E (lm/W) 68,1

P (W) 22,9

Z4H4O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	4695	0,5	1,18/1,24	4695	0,5	1,18/1,24	2486	0,5	1,18/1,24	2555
1,0	2,37/2,48	1174	1,0	2,37/2,48	1174	1,0	2,37/2,48	621	1,0	2,37/2,48	639
1,5	3,55/3,72	522	1,5	3,55/3,72	522	1,5	3,55/3,72	276	1,5	3,55/3,72	284
2,0	4,73/4,96	293	2,0	4,73/4,96	293	2,0	4,73/4,96	155	2,0	4,73/4,96	160
2,5	5,92/6,20	188	2,5	5,92/6,20	188	2,5	5,92/6,20	99	2,5	5,92/6,20	102
3,0	7,10/7,44	130	3,0	7,10/7,44	130	3,0	7,10/7,44	69	3,0	7,10/7,44	71

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 1560,9

E (lm/W) 68,1

P (W) 22,9

Z4L3O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	2486	0,5	1,18/1,24	2486	0,5	1,18/1,24	2486	0,5	1,18/1,24	2555
1,0	2,37/2,48	621	1,0	2,37/2,48	621	1,0	2,37/2,48	621	1,0	2,37/2,48	639
1,5	3,55/3,72	276	1,5	3,55/3,72	276	1,5	3,55/3,72	276	1,5	3,55/3,72	284
2,0	4,73/4,96	155	2,0	4,73/4,96	155	2,0	4,73/4,96	155	2,0	4,73/4,96	160
2,5	5,92/6,20	99	2,5	5,92/6,20	99	2,5	5,92/6,20	99	2,5	5,92/6,20	102
3,0	7,10/7,44	69	3,0	7,10/7,44	69	3,0	7,10/7,44	69	3,0	7,10/7,44	71

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 1560,9

E (lm/W) 68,1

P (W) 22,9

Z4L4O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	2555	0,5	1,18/1,24	2555	0,5	1,18/1,24	3832	0,5	1,18/1,24	3832
1,0	2,37/2,48	639	1,0	2,37/2,48	639	1,0	2,37/2,48	639	1,0	2,37/2,48	658
1,5	3,55/3,72	284	1,5	3,55/3,72	284	1,5	3,55/3,72	426	1,5	3,55/3,72	426
2,0	4,73/4,96	160	2,0	4,73/4,96	160	2,0	4,73/4,96	240	2,0	4,73/4,96	240
2,5	5,92/6,20	153	2,5	5,92/6,20	149	2,5	5,92/6,20	153	2,5	5,92/6,20	153
3,0	7,10/7,44	71	3,0	7,10/7,44	104	3,0	7,10/7,44	104	3,0	7,10/7,44	106

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 2341,4

E (lm/W) 68,2

P (W) 34,3

Z6H3O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	6836	0,5	1,18/1,24	7043	0,5	1,18/1,24	3729	0,5	1,18/1,24	3832
1,0	2,37/2,48	1709	1,0	2,37/2,48	1761	1,0	2,37/2,48	932	1,0	2,37/2,48	958
1,5	3,55/3,72	760	1,5	3,55/3,72	783	1,5	3,55/3,72	414	1,5	3,55/3,72	426
2,0	4,73/4,96	427	2,0	4,73/4,96	440	2,0	4,73/4,96	233	2,0	4,73/4,96	240
2,5	5,92/6,20	273	2,5	5,92/6,20	282	2,5	5,92/6,20	149	2,5	5,92/6,20	153
3,0	7,10/7,44	190	3,0	7,10/7,44	196	3,0	7,10/7,44	104	3,0	7,10/7,44	106

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 4292,6

E (lm/W) 67,7

P (W) 63,4

Z6H4O

H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,18/1,24	6836	0,5	1,18/1,24	7042,7	0,5	1,18/1,24	3729	0,5	1,18/1,24	3832
1,0	2,37/2,48	1709	1,0	2,37/2,48	1761	1,0	2,37/2,48	932	1,0	2,37/2,48	958
1,5	3,55/3,72	760	1,5	3,55/3,72	783	1,5	3,55/3,72	414	1,5	3,55/3,72	426
2,0	4,73/4,96	427	2,0	4,73/4,96	440	2,0	4,73/4,96	233	2,0	4,73/4,96	240
2,5	5,92/6,20	273	2,5	5,92/6,20	282	2,5	5,92/6,20	149	2,5	5,92/6,20	153
3,0	7,10/7,44	190	3,0	7,10/7,44	196	3,0	7,10/7,44	104	3,0	7,10/7,44	106

102,2° | 99,6°
C0-C180 C90-C270

LO (lm) 4422,7

E (lm/W) 69,7

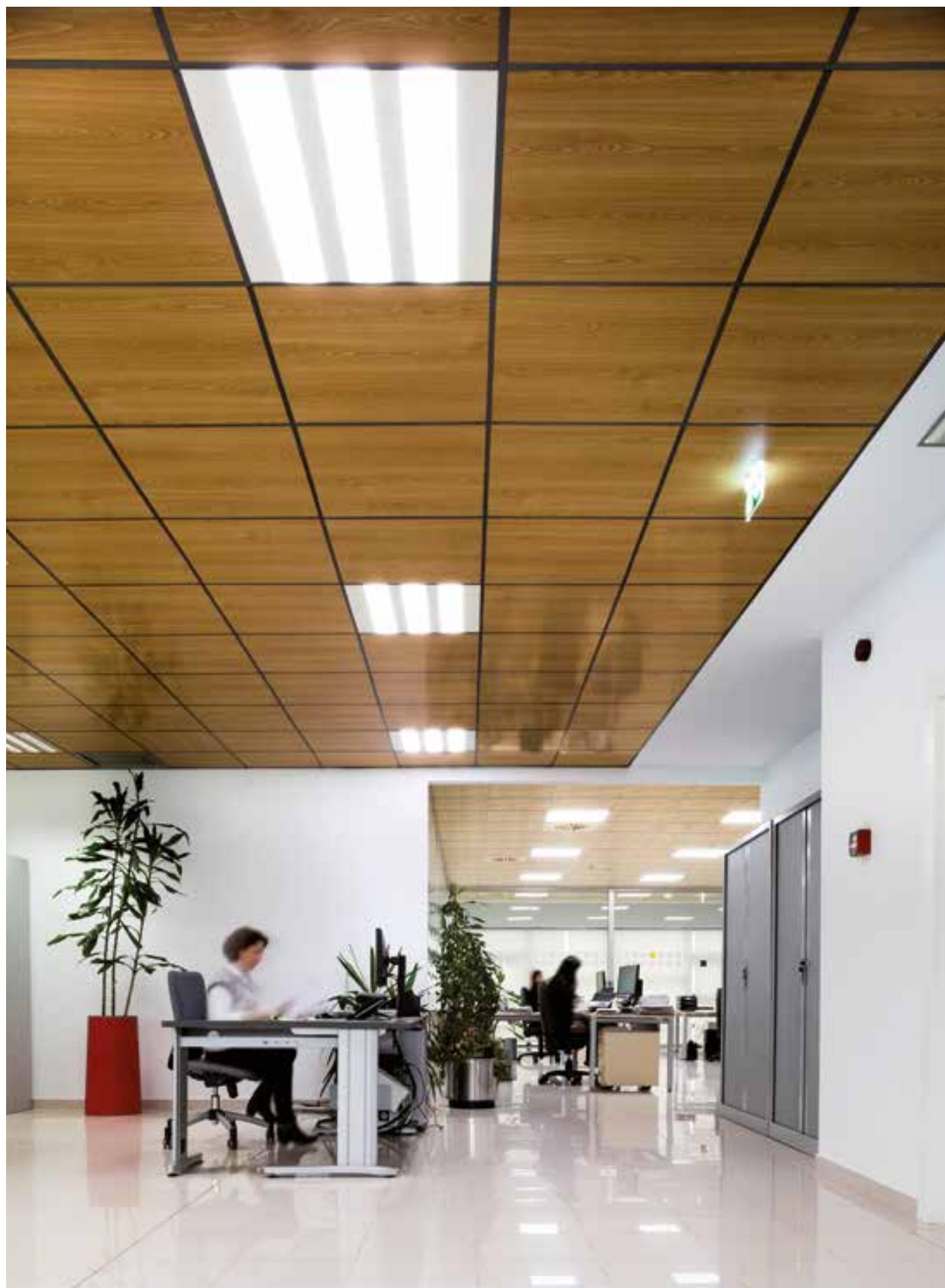
P (W) 63,4

Z6L3O</



Fittings Pantallas

Nassel	180
Nassel S	182
Luzerna	185



Nassel

Innovative LED luminaire model particularly suitable for modular ceilings. Direct and comfortable light due to the combination of a micropism and an opal diffusers and together with a highly reflective thermoplastic reflector integrated in the module.

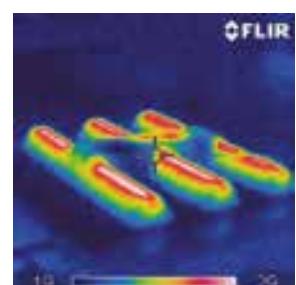
It becomes a serious alternative to traditional fluorescent fittings, therefore its efficiency and performance and also because of no maintenance and easy installation. Available in dimmable DALI and Radio (WIL) version.

Innovador modelo de luminaria LED especialmente indicado para techos modulares. Transmite una luz directa y confortable gracias a la combinación de un difusor micropismático y otro opalizado junto a un reflector en plástico técnico de alta reflexión integrado en el módulo.

Se convierte en una seria alternativa a las tradicionales pantallas de fluorescencia, tanto por eficiencia y rendimiento como por ausencia de mantenimiento y facilidad de instalación. Disponible en versión regulable DALI y Radio (WIL).



		Nassel	Nassel S
Installation	Instalación	Ceiling recessed Empotrado a techo	Ceiling surface mounting Adosado a techo
Light source	Fuente de luz	LED	LED
Photobiological safety	Seguridad fotobiológica	0	0
UGR	UGR	16	16
Flickering <15%	Flickering <15%	✓	✓
CRI	CRI	80-90	80-90
Macadam Ellipse	Elipse de Macadam	3	3
Opening angle	Ángulo de apertura	74	74
Power (W)	Potencia (W)	36W 48W	36W 48W
Temperature	Temperatura	3000/4000	3000/4000
Lumens	Lúmenes	4400/4500 5850/6000	4400/4500 5850/6000
Power factor	Factor de potencia	0,95	0,95
Performance	Rendimiento	80,3	80,3
Useful live Led	Vida útil Led	60000	60000
Useful live driver	Vida útil driver	>60000	>60000
Expectation	Expectativa	L70F10	L70F10
Zhaga replaceable Led	Led sustituible Zhaga	✓	✓
ON/OFF Cycles	Ciclos de encendido	120000	120000
DALI	DALI	✓	✓
Continuous Operation (24h)	Funcionamiento continuado 24h	✓	✓
Independent Electronic	Electronica Independiente	✓	✓
IP	IP	44	33
Class	Clase	II	III
Weight (Kg)	Peso (Kg)	2,9	4,8
Modular ceiling	Techos modulares	600x600	—



Nassel



Ceiling recessed
Empotrado a techo

0 Photobiological Safety
Seguridad Fotobiológica

UGR 16



LED 85°C

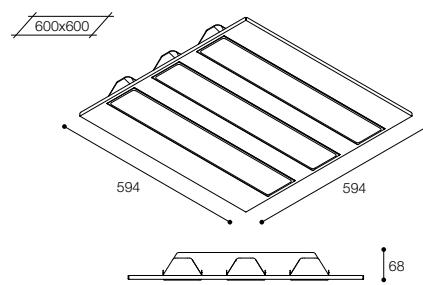
0,95 Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

80,3 Performance
Rendimiento

16 Glare index
Índice de deslumbramiento

60.000 Useful life
L70F10 Vida útil



Colour Color
 B



1 Light structure and less weight
Estructura ligera, peso reducido

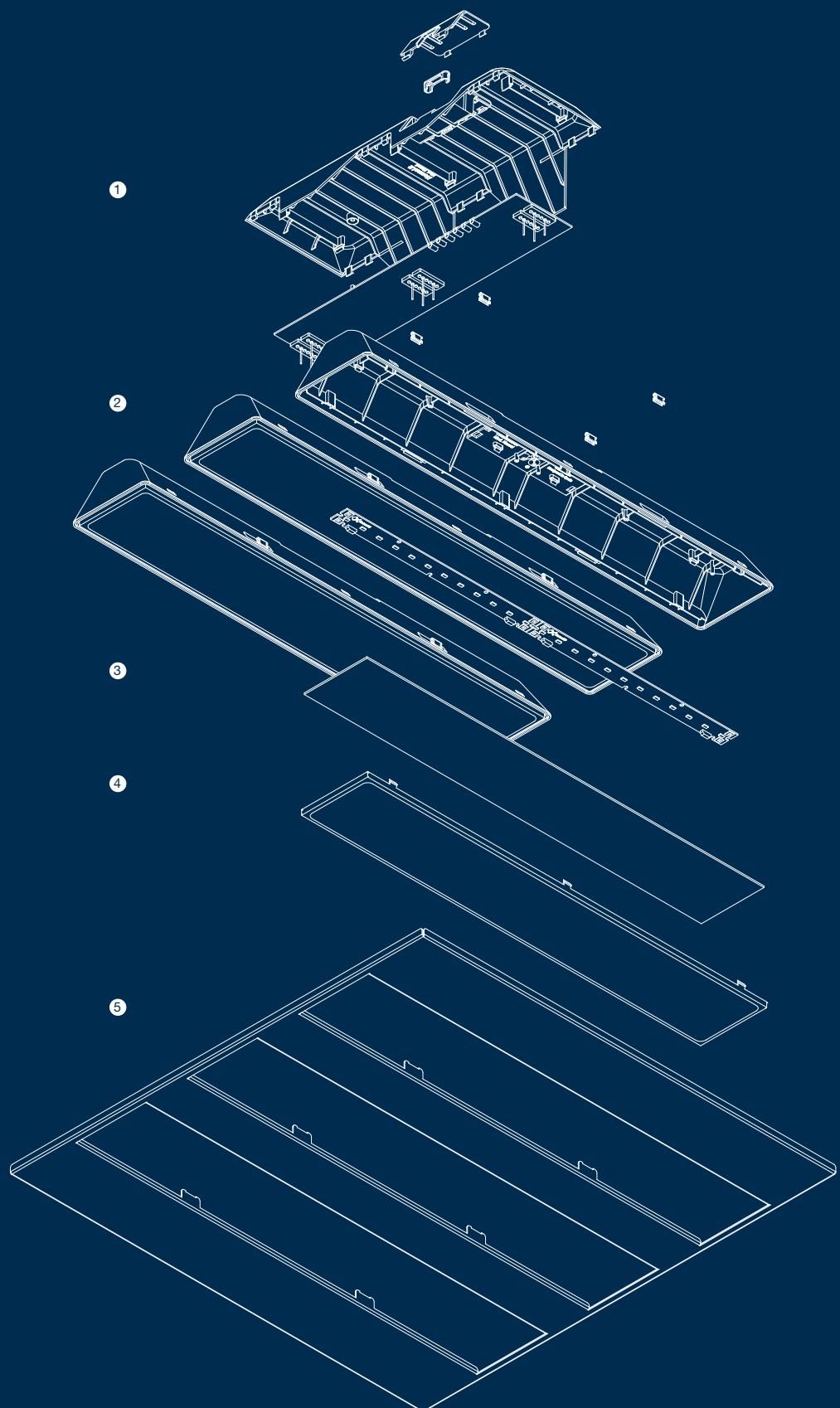
1

2 Interchangeable Led plate, Zhaga standard
Placa Led intercambiable, estándar Zhaga

2

3 Microprismatic diffuser for a better performance
of the light output (UGR<19)
Difusor Micropírmatico, optimiza el flujo luminoso
(UGR<19)

3



1
Terminal board
Bornero de conexión

2
Heat sink
Cuerpo disipador

3
Intermediate diffuser
Difusor intermedio

4
Microprismatic diffuser
Difusor microprismático

5
Housing
Estructura

Nassel



Ceiling recessed
Empotrado a techo

0 Photobiological Safety
Seguridad Fotobiológica

UGR
16



LED 850°C

0,95 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

80,3 | Performance
Rendimiento

16 | Glare index
Índice de deslumbramiento

60.000 | Useful life
L70F10 Vida útil



Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

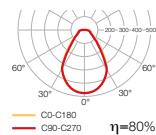
Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



B

	W	K	LUMEN	IP
NS23	1x26W	3000	3000	44
NS24	1x26W	4000	3000	44
NS33	1x36W	3000	4400	44
NS34	1x36W	4000	4500	44
NS43	1x48W	3000	5850	44
NS44	1x48W	4000	6000	44
NS53	1x48W	3000	5850	44
NS54	1x48W	4000	6000	44

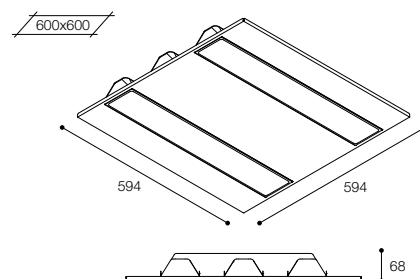


NS23	NS24	NS33	NS34
H m	H m	H m	H m
ø m	ø m	ø m	ø m
E (0°) lux	E (0°) lux	E (0°) lux	E (0°) lux
0,5 0,72/0,75 5588	0,5 0,72/0,75 5640	0,5 0,72/0,75 8231	0,5 0,72/0,75 8460
1,0 1,45/1,51 1397	1,0 1,45/1,51 1410	1,0 1,45/1,51 2058	1,0 1,45/1,51 2115
1,5 2,17/2,26 621	1,5 2,17/2,26 627	1,5 2,17/2,26 915	1,5 2,17/2,26 940
2,0 2,90/3,01 349	2,0 2,90/3,01 352	2,0 2,90/3,01 514	2,0 2,90/3,01 529
2,5 3,62/3,77 224	2,5 3,62/3,77 226	2,5 3,62/3,77 329	2,5 3,62/3,77 338
3,0 4,34/4,52 155	3,0 4,34/4,52 157	3,0 4,34/4,52 229	3,0 4,34/4,52 235
74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270
LO (lm) 2355,1	LO (lm) 2409,0	LO (lm) 3533,2	LO (lm) 3613,5
E (lm/W) 90,5	E (lm/W) 92,6	E (lm/W) 89,4	E (lm/W) 91,4
P (W) 26,0	P (W) 26,0	P (W) 39,5	P (W) 39,5

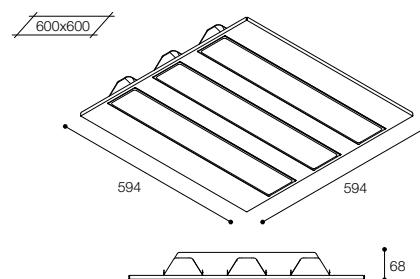
NS43	NS44	NS53	NS54
H m	H m	H m	H m
ø m	ø m	ø m	ø m
E (0°) lux	E (0°) lux	E (0°) lux	E (0°) lux
0,5 0,72/0,75 10975	0,5 0,72/0,75 11280	0,5 0,72/0,75 10975	0,5 0,72/0,75 11280
1,0 1,45/1,51 2744	1,0 1,45/1,51 2820	1,0 1,45/1,51 2744	1,0 1,45/1,51 2820
1,5 2,17/2,26 1219	1,5 2,17/2,26 1253	1,5 2,17/2,26 1219	1,5 2,17/2,26 1253
2,0 2,90/3,01 686	2,0 2,90/3,01 705	2,0 2,90/3,01 686	2,0 2,90/3,01 705
2,5 3,62/3,77 439	2,5 3,62/3,77 451	2,5 3,62/3,77 439	2,5 3,62/3,77 451
3,0 4,34/4,52 305	3,0 4,34/4,52 313	3,0 4,34/4,52 305	3,0 4,34/4,52 313
74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270	74,0° 71,8° c0-c180 c90-c270
LO (lm) 4697,5	LO (lm) 4818,0	LO (lm) 4697,5	LO (lm) 4818,0
E (lm/W) 88,9	E (lm/W) 91,2	E (lm/W) 88,9	E (lm/W) 91,2
P (W) 52,8	P (W) 52,8	P (W) 52,8	P (W) 52,8

Nassel

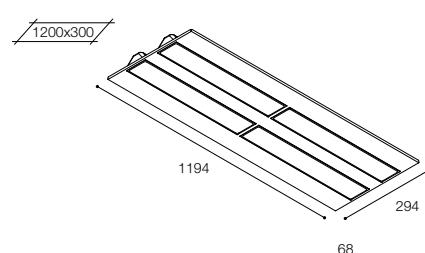
NS2



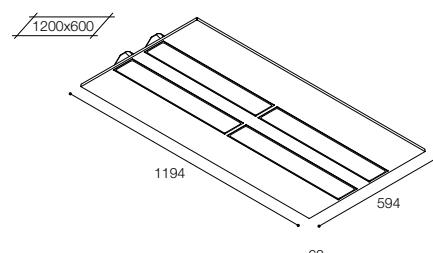
NS3



NS4



NS5



	W	K	LUMEN	IP
DALI				
[LED] NS23D	1x26W	3000	3000	44
[LED] NS24D	1x26W	4000	3000	44
[LED] NS33D	1x36W	3000	4400	44
[LED] NS34D	1x36W	4000	4500	44
[LED] NS43D	1x48W	3000	5850	44
[LED] NS44D	1x48W	4000	6000	44



[LED] NS33R	1x36W	3000	4400	44
[LED] NS34R	1x36W	4000	4500	44
[LED] NS43R	1x48W	3000	5850	44
[LED] NS44R	1x48W	4000	6000	44



Nassel S



Ceiling surface mounting
Adosado a techo

0	Photobiological Safety Seguridad Fotobiológica	UGR 16		
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0,95 | Power factor (cos φ)
Factor de potencia (cos φ)

expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

80,3 | Performance
Rendimiento

16 | Glare index
Índice de deslumbramiento

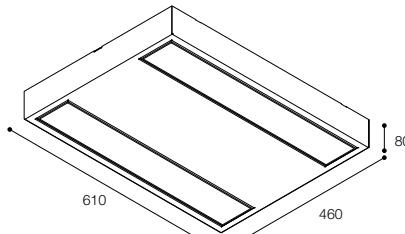
60.000 | Useful life
L70F10 Vida útil

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

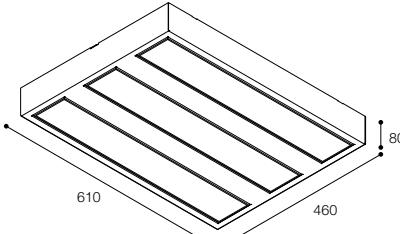
Colour Color



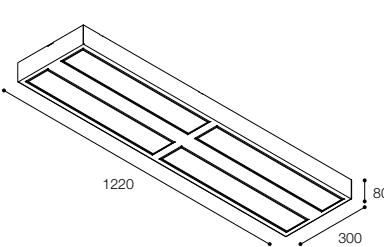
NA2



NA3



NA4



	W	K	LUMEN	IP
NA23	1x26W	3000	3000	33
NA24	1x26W	4000	3000	33
NA33	1x36W	3000	4400	33
NA34	1x36W	4000	4500	33
NA43	1x48W	3000	5850	33
NA44	1x48W	4000	6000	33



	W	K	LUMEN	IP
NA23D	1x26W	3000	3000	33
NA24D	1x26W	4000	3000	33
NA33D	1x36W	3000	4400	33
NA34D	1x36W	4000	4500	33
NA43D	1x48W	3000	5850	33
NA44D	1x48W	4000	6000	33

	NA23			NA24			NA33				
	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux		
	0,5	0,72/0,75	5588	0,5	0,72/0,75	5640	0,5	0,72/0,75	8231		
	1,0	1,45/1,51	1397	1,0	1,45/1,51	1410	1,0	1,45/1,51	2058		
	1,5	2,17/2,26	621	1,5	2,17/2,26	627	1,5	2,17/2,26	915		
	2,0	2,90/3,01	349	2,0	2,90/3,01	352	2,0	2,90/3,01	514		
	2,5	3,62/3,77	224	2,5	3,62/3,77	226	2,5	3,62/3,77	329		
	3,0	4,34/4,52	155	3,0	4,34/4,52	157	3,0	4,34/4,52	229		
	74,0° 71,8° CO-C180 C90-C270			74,0° 71,8° CO-C180 C90-C270			74,0° 71,8° CO-C180 C90-C270				
LO (lm)	2355,1			LO (lm)	2409,0			LO (lm)	3533,2		
E (lm/W)	90,5			E (lm/W)	92,6			E (lm/W)	89,4		
P (W)	26,0			P (W)	26,0			P (W)	39,5		

	NA34			NA43			NA44				
	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux		
	0,5	0,72/0,75	8460	0,5	0,72/0,75	10975	0,5	0,72/0,75	11280		
	1,0	1,45/1,51	2115	1,0	1,45/1,51	2744	1,0	1,45/1,51	2820		
	1,5	2,17/2,26	940	1,5	2,17/2,26	1219	1,5	2,17/2,26	1253		
	2,0	2,90/3,01	529	2,0	2,90/3,01	686	2,0	2,90/3,01	705		
	2,5	3,62/3,77	338	2,5	3,62/3,77	439	2,5	3,62/3,77	451		
	3,0	4,34/4,52	235	3,0	4,34/4,52	305	3,0	4,34/4,52	313		
	74,0° 71,8° CO-C180 C90-C270			74,0° 71,8° CO-C180 C90-C270			74,0° 71,8° CO-C180 C90-C270				
LO (lm)	3613,5			LO (lm)	4697,5			LO (lm)	4818,0		
E (lm/W)	91,4			E (lm/W)	88,9			E (lm/W)	91,2		
P (W)	39,5			P (W)	52,8			P (W)	52,8		

Nassel S



Ceiling Suspended mounting
Suspendido a techo

0	Photobiological Safety Seguridad Fotobiológica	UGR 16		
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0,95	Power factor (COS φ) Factor de potencia (COS φ)	expandable to 5 years warranty (depending on project) Garantía ampliable a 5 años (según proyecto)
80,3	Performance Rendimiento	
16	Glare index Índice de deslumbramiento	Dimmable 1-10v as an option Regulación 1-10V bajo pedido
60.000 L70F10	Useful life Vida útil	

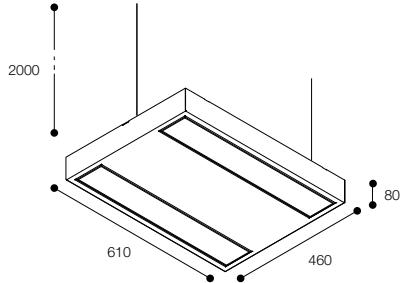
Colour Color



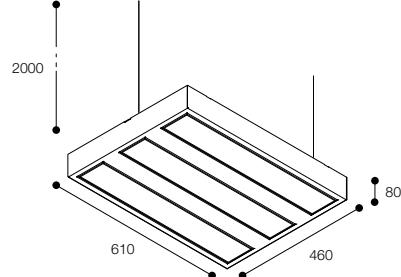
B



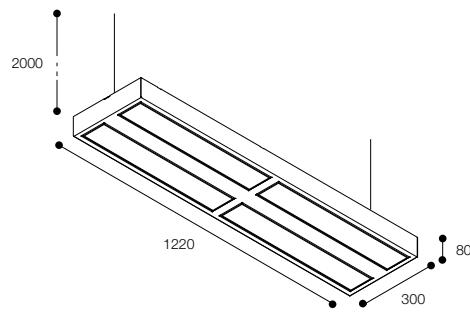
NAS2



NAS3



NAS4



	W	K	LUMEN	IP
NAS23	1x26W	3000	3000	33
NAS24	1x26W	4000	3000	33
NAS33	1x36W	3000	4400	33
NAS34	1x36W	4000	4500	33
NAS43	1x48W	3000	5850	33
NAS44	1x48W	4000	6000	33



	W	K	LUMEN	IP
NAS23D	1x26W	3000	3000	33
NAS24D	1x26W	4000	3000	33
NAS33D	1x36W	3000	4400	33
NAS34D	1x36W	4000	4500	33
NAS43D	1x48W	3000	5850	33
NAS44D	1x48W	4000	6000	33

	NAS23			NAS24			NAS33				
	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux		
	0,5	0,72/0,75	5588	0,5	0,72/0,75	5640	0,5	0,72/0,75	8231		
	1,0	1,45/1,51	1397	1,0	1,45/1,51	1410	1,0	1,45/1,51	2058		
	1,5	2,17/2,26	621	1,5	2,17/2,26	627	1,5	2,17/2,26	915		
	2,0	2,90/3,01	349	2,0	2,90/3,01	352	2,0	2,90/3,01	514		
	2,5	3,62/3,77	224	2,5	3,62/3,77	226	2,5	3,62/3,77	329		
	3,0	4,34/4,52	155	3,0	4,34/4,52	157	3,0	4,34/4,52	229		
	74,0° 71,8° co-C180 c90-C270			74,0° 71,8° co-C180 c90-C270			74,0° 71,8° co-C180 c90-C270				
LO (lm)	2355,1			LO (lm)	2409,0			LO (lm)	3533,2		
E (lm/W)	90,5			E (lm/W)	92,6			E (lm/W)	89,4		
P (W)	26,0			P (W)	26,0			P (W)	39,5		

	NAS34			NAS43			NAS44				
	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux	H m	ø m	E (0°) lux		
	0,5	0,72/0,75	8460	0,5	0,72/0,75	10975	0,5	0,72/0,75	11280		
	1,0	1,45/1,51	2115	1,0	1,45/1,51	2744	1,0	1,45/1,51	2820		
	1,5	2,17/2,26	940	1,5	2,17/2,26	1219	1,5	2,17/2,26	1253		
	2,0	2,90/3,01	529	2,0	2,90/3,01	686	2,0	2,90/3,01	705		
	2,5	3,62/3,77	338	2,5	3,62/3,77	439	2,5	3,62/3,77	451		
	3,0	4,34/4,52	235	3,0	4,34/4,52	305	3,0	4,34/4,52	313		
	74,0° 71,8° co-C180 c90-C270			74,0° 71,8° co-C180 c90-C270			74,0° 71,8° co-C180 c90-C270				
LO (lm)	3613,5			LO (lm)	4697,5			LO (lm)	4818,0		
E (lm/W)	91,4			E (lm/W)	88,9			E (lm/W)	91,2		
P (W)	39,5			P (W)	52,8			P (W)	52,8		



Luzerna

Luzerna is a luminaire model particularly suitable for modular ceilings. Direct and very homogeneous. It becomes a serious alternative to traditional fluorescent fittings, therefore its efficiency and performance and also because of no maintenance and easy installation. Available in dimmable DALI version.

Luzerna es una luminaria LED indicada para techos modulares. Transmite una luz directa y muy homogénea. Se convierte en una seria alternativa a las pantallas tradicionales de fluorescencia tanto por eficiencia y rendimiento como por ausencia de mantenimiento y facilidad de instalación. Disponible en versión regulable DALI.

Luzerna



Ceiling recessed
Empotrado a techo

NEW



0,90 | Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

82 | Performance
Rendimiento

19 | Glare index
Índice de deslumbramiento

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



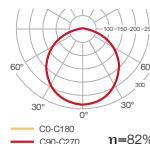
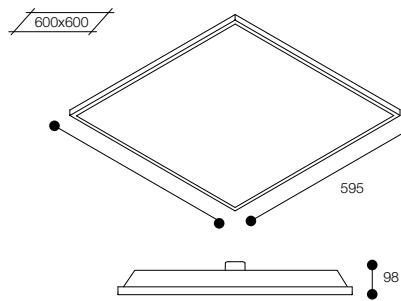
Ref. + B,G



	W	K	LUMEN	IP
LED LZ33	1x36W	3000	4800	30
LED LZ34	1x36W	4000	5000	30



LED LZ33D	1x36W	3000	4800	30
LED LZ34D	1x36W	4000	5000	30



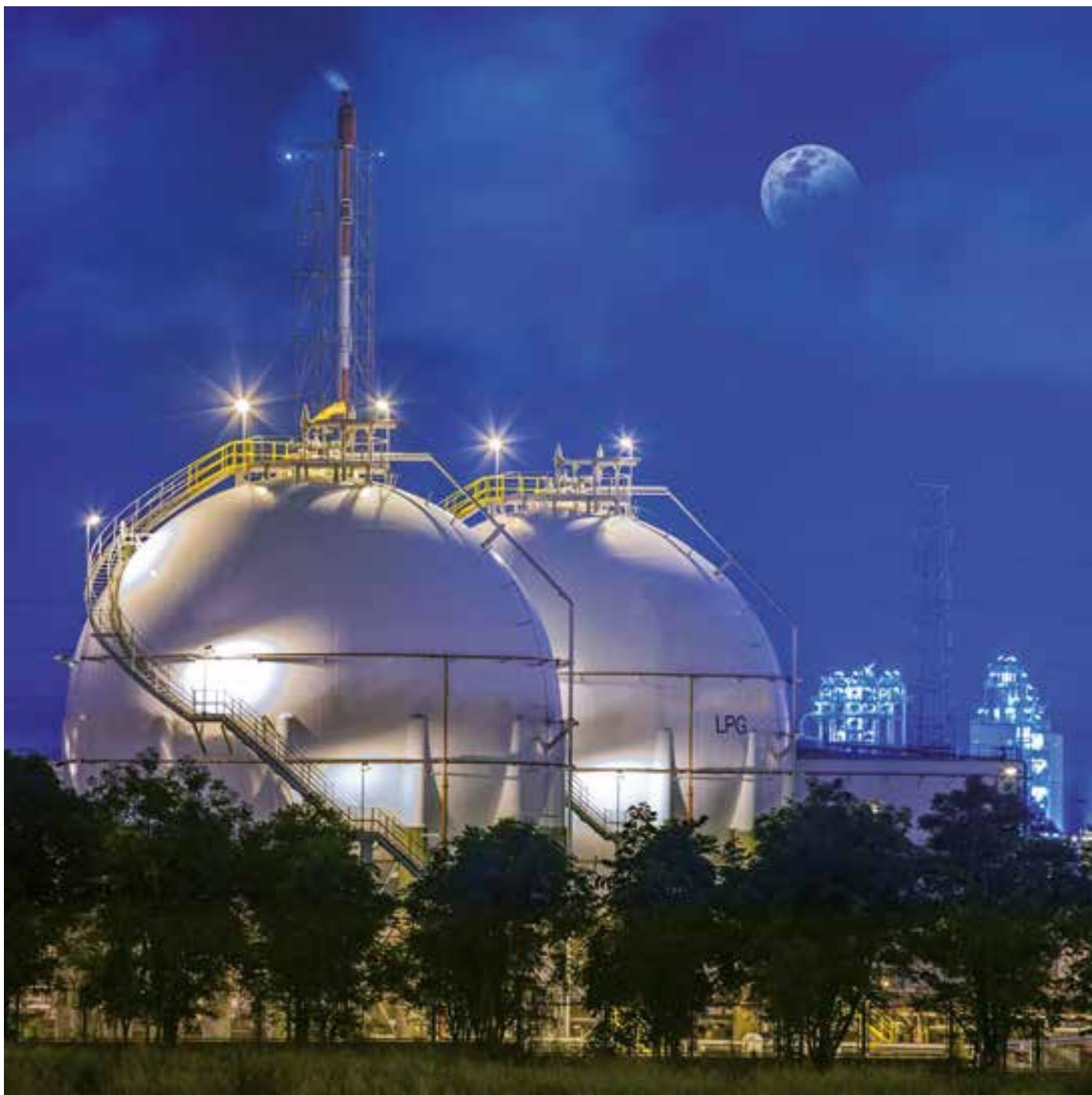
LZ33			LZ34		
H m	ø m	E (0°) lux	H m	ø m	E (0°) lux
0,5	1,53/1,52	5474	0,5	1,53/1,52	5702
1,0	3,06/3,04	1368	1,0	3,06/3,04	1425
1,5	4,58/4,57	608	1,5	4,58/4,57	634
2,0	6,11/6,09	342	2,0	6,11/6,09	356
2,5	7,64/7,61	219	2,5	7,64/7,61	228
3,0	9,17/9,13	152	3,0	9,17/9,13	158
113,4° 113,6° co-c180 c90-c270			113,4° 113,6° co-c180 c90-c270		
LO (lm) 3936,0			LO (lm) 4100,0		
E (lm/W) 99,3			E (lm/W) 103,5		
P (W) 39,6			P (W) 39,6		





Industrial

Hermetic Line	189
Hermetic XL	191



Hermetic Line

HERMETIC LINE is a luminaire with IP66 watertight. Ideal for basements, garages or any industrial activity. Extruded polycarbonate body lets get to any length.

HERMETIC LINE es una luminaria estanca con IP66. Ideal para sótanos, garajes o cualquier tipo de actividad industrial. Su cuerpo de policarbonato extruido permite llegar a cualquier longitud.

Hermetic Line



Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared

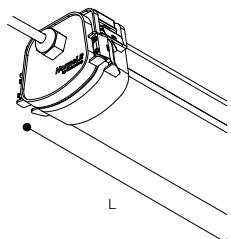
NEW



0,90 | Power factor (COS φ)
Factor de potencia (COS φ)

80,1 | Performance
Rendimiento

60.000 | Useful life
L70F10 Vida útil



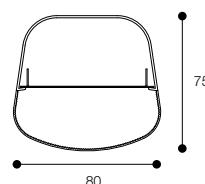
Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

1-10V | Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

Colour Color



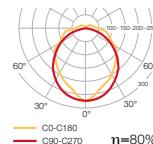
G



	W	K	LUMEN	IP	L(mm)
LED DL2H	1x19,2W	4000	2720	66	668
LED DL2L	1x10,4W	4000	1480	66	668
LED DL4H	1x38,4W	4000	5440	66	1228
LED DL4L	1x20,8W	4000	2960	66	1228
LED DL5H	1x48W	4000	6800	66	1530
LED DL5L	1x26W	4000	3700	66	1530
LED DL6H	1x57,6W	4000	8160	66	1788
LED DL6L	1x31,2W	4000	4440	66	1788



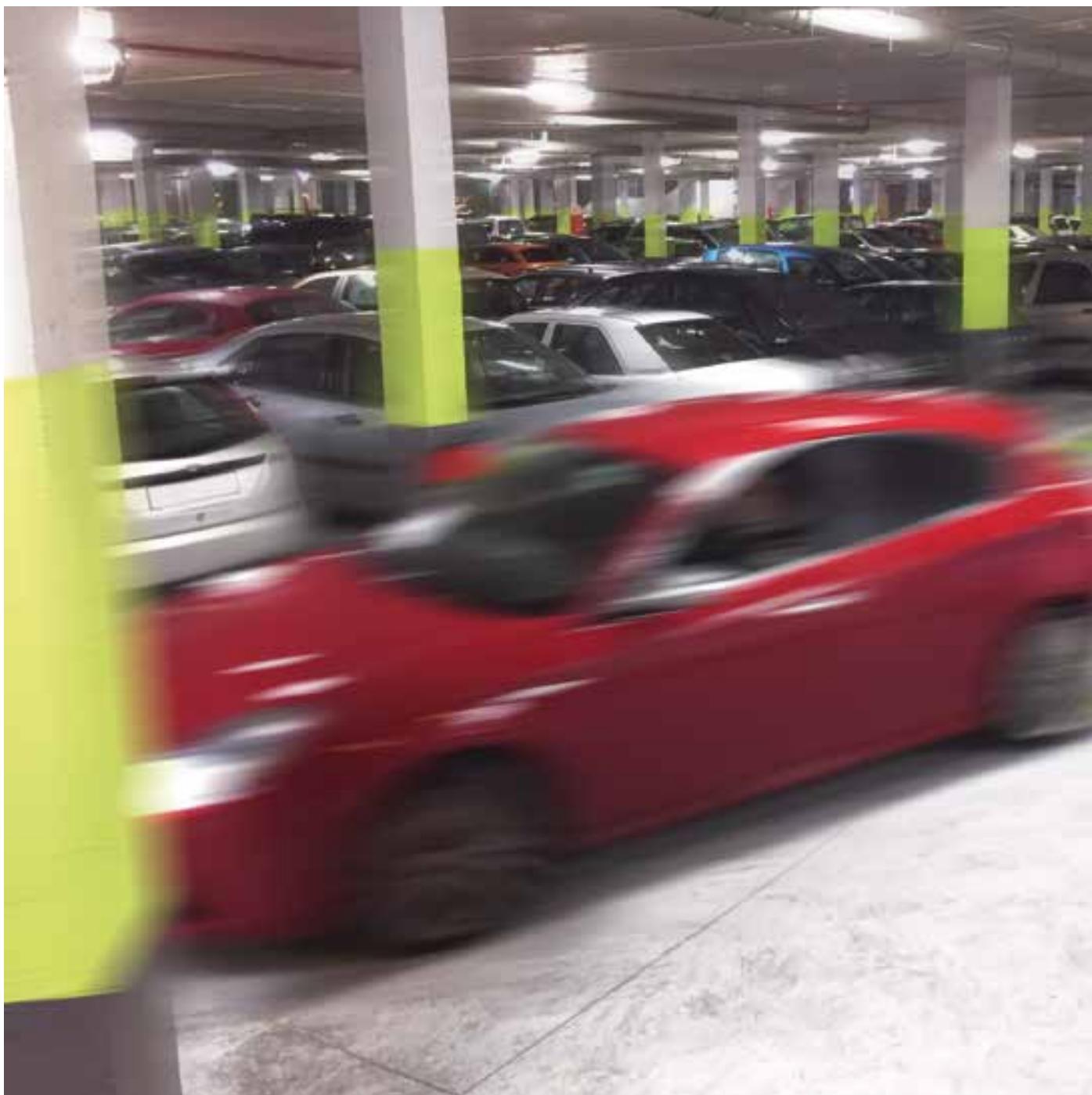
	W	K	LUMEN	IP	L(mm)
LED DL2HD	1x19,2W	4000	2720	66	668
LED DL2LD	1x10,4W	4000	1480	66	668
LED DL4HD	1x38,4W	4000	5440	66	1228
LED DL4LD	1x20,8W	4000	2960	66	1228
LED DL5HD	1x48W	4000	6800	66	1530
LED DL5LD	1x26W	4000	3700	66	1530
LED DL6HD	1x57,6W	4000	8160	66	1788
LED DL6LD	1x31,2W	4000	4440	66	1788



DL2H	DL2L	DL4H	DL4L
H m 0,5 1,33/1,47 2965	H m 0,5 1,33/1,47 1613	H m 0,5 1,33/1,47 5930	H m 0,5 1,33/1,47 3226
1,0 2,65/2,94 741	1,0 2,65/2,94 403	1,0 2,65/2,94 1482	1,0 2,65/2,94 807
1,5 3,98/4,41 329	1,5 3,98/4,41 179	1,5 3,98/4,41 659	1,5 3,98/4,41 358
2,0 5,31/5,89 185	2,0 5,31/5,89 101	2,0 5,31/5,89 371	2,0 5,31/5,89 202
2,5 6,64/7,36 119	2,5 6,64/7,36 65	2,5 6,64/7,36 237	2,5 6,64/7,36 129
3,0 7,96/8,83 82	3,0 7,96/8,83 45	3,0 7,96/8,83 165	3,0 7,96/8,83 90
111,6° 106,0° C0-C180/C90-C270	111,6° 106,0° C0-C180/C90-C270	111,6° 106,0° C0-C180/C90-C270	111,6° 106,0° C0-C180/C90-C270
LO (lm) 2178,7	LO (lm) 1185,4	LO (lm) 4357,4	LO (lm) 2370,9
E (lm/W) 103,2	E (lm/W) 103,9	E (lm/W) 103,2	E (lm/W) 103,5
P (W) 21,1	P (W) 11,4	P (W) 42,2	P (W) 22,9



DL5H	DL5L	DL6H	DL6L
H m 0,5 1,39/2,84 5229	H m 0,5 1,39/2,84 2845	H m 0,5 1,33/1,47 8894	H m 0,5 1,33/1,47 4840
1,0 2,77/5,68 1307	1,0 2,77/5,68 711	1,0 2,65/2,94 2224	1,0 2,65/2,94 1210
1,5 4,16/8,52 581	1,5 4,16/8,52 316	1,5 3,98/4,41 988	1,5 3,98/4,41 538
2,0 5,55/11,36 327	2,0 5,55/11,36 178	2,0 5,31/5,89 556	2,0 5,31/5,89 302
2,5 6,93/14,20 209	2,5 6,93/14,20 114	2,5 6,64/7,36 356	2,5 6,64/7,36 194
3,0 8,32/17,04 145	3,0 8,32/17,04 79	3,0 7,96/8,83 247	3,0 7,96/8,83 134
141,2° 108,4° C0-C180/C90-C270	141,2° 108,4° C0-C180/C90-C270	111,6° 106,0° C0-C180/C90-C270	111,6° 106,0° C0-C180/C90-C270
LO (lm) 5446,8	LO (lm) 2963,0	LO (lm) 6536,1	LO (lm) 3556,4
E (lm/W) 113,47	E (lm/W) 114,0	E (lm/W) 103,0	E (lm/W) 103,6
P (W) 48,0	P (W) 26,0	P (W) 63,4	P (W) 34,3



Hermetic XL

Hermetic XL is a waterproof IP65 luminary. Ideal for basements, garages or for any industrial activity. Specifically designed with LED technology, it incorporates the new and revolutionary installing system. It has never been so easy to install or uninstall a luminary!

HERMETIC XL es una luminaria estanca con IP65. Ideal para sótanos, garajes o cualquier tipo de actividad industrial. Diseñada específicamente en tecnología LED incorpora un novedoso y revolucionario sistema de instalación. ¡Nunca antes fue tan sencillo instalar o desinstalar una luminaria!

Hermetic XL



Ceiling surface mounting
Adosado a techo



Wall surface mounting
Adosado a pared

0

Photobiological Safety
Seguridad Fotobiológica



LED

CE



85°C



0,95

Power factor ($\cos \phi$)
Factor de potencia ($\cos \phi$)

80,1

Performance
Rendimiento

108°

Opening angle
Ángulo de apertura

60.000

Useful life
Vida útil

L70/F10

Expandable to 5 years warranty
(depending on project)
Garantía ampliable a 5 años
(según proyecto)

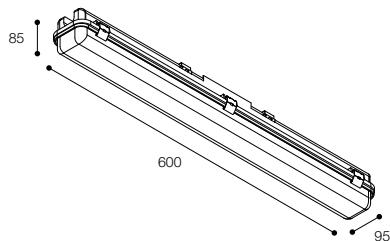


Dimmable 1-10v as an option
Regulación 1-10V bajo pedido

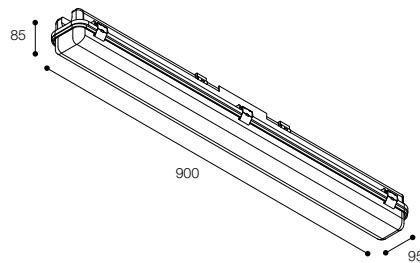
Colour Color

N

DE2



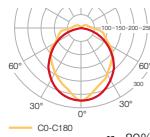
DE3



Wall surface mounting
Adosado a pared



	W	K	LUMEN	IP
[LED] DE2H	1x19,2W	4000	2720	66
[LED] DE2L	1x10,4W	4000	1480	66
[LED] DE3H	1x28,8W	4000	4080	66
[LED] DE3L	1x15,6W	4000	2220	66



DE2H

DE2L

H	ø	E (0°)	lux
0,5	1,33/1,47	2964	
1,0	2,65/2,94	741	
1,5	3,98/4,41	329	
2,0	5,31/5,89	185	
2,5	6,64/7,36	119	
3,0	7,96/8,83	82	
111,6° 106,0°			
co-c180	c90-c270		
LO (lm)	2178,7		
E (lm/W)	103,2		
P (W)	21,1		

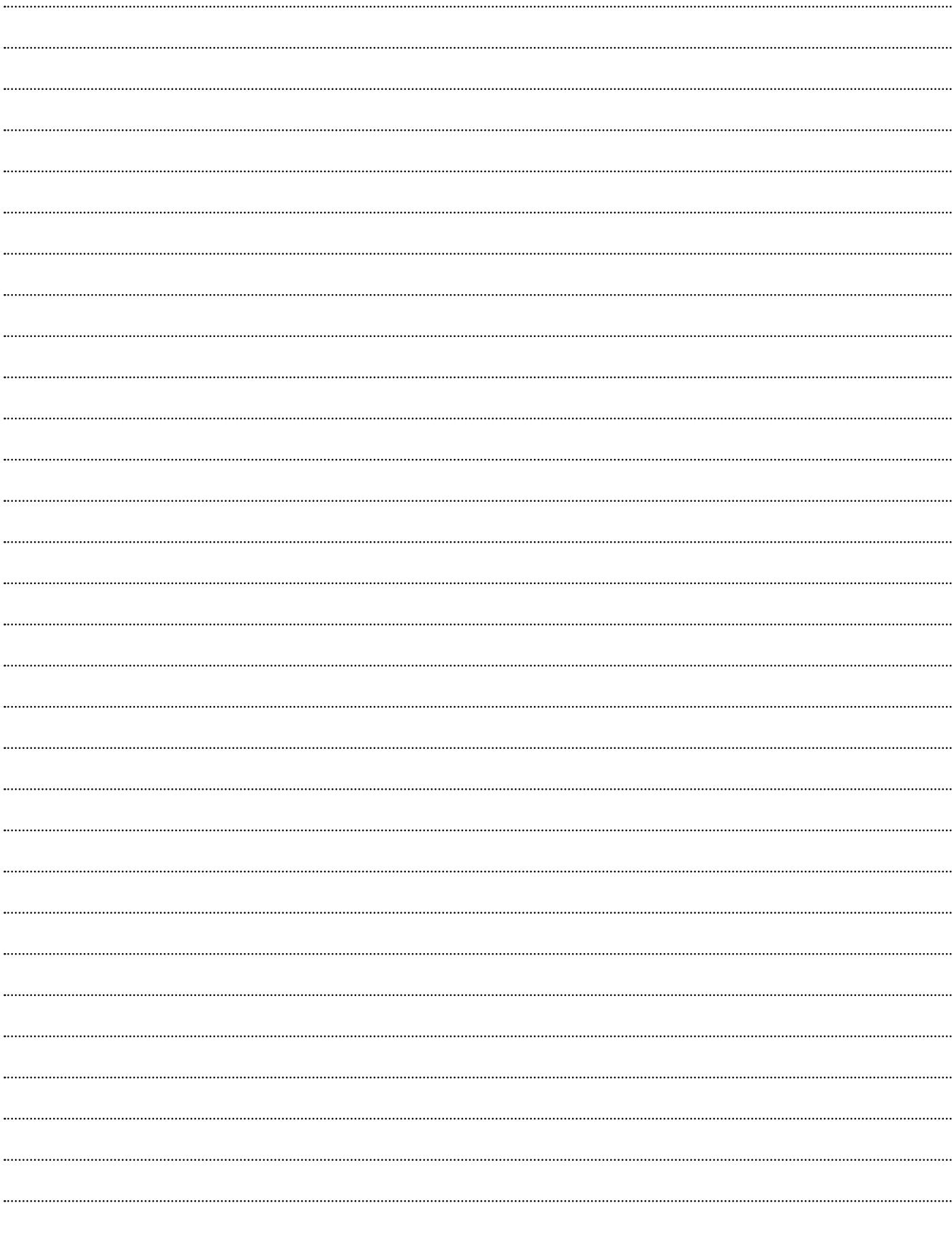
LO (lm)	2178,7
E (lm/W)	103,2
P (W)	21,1

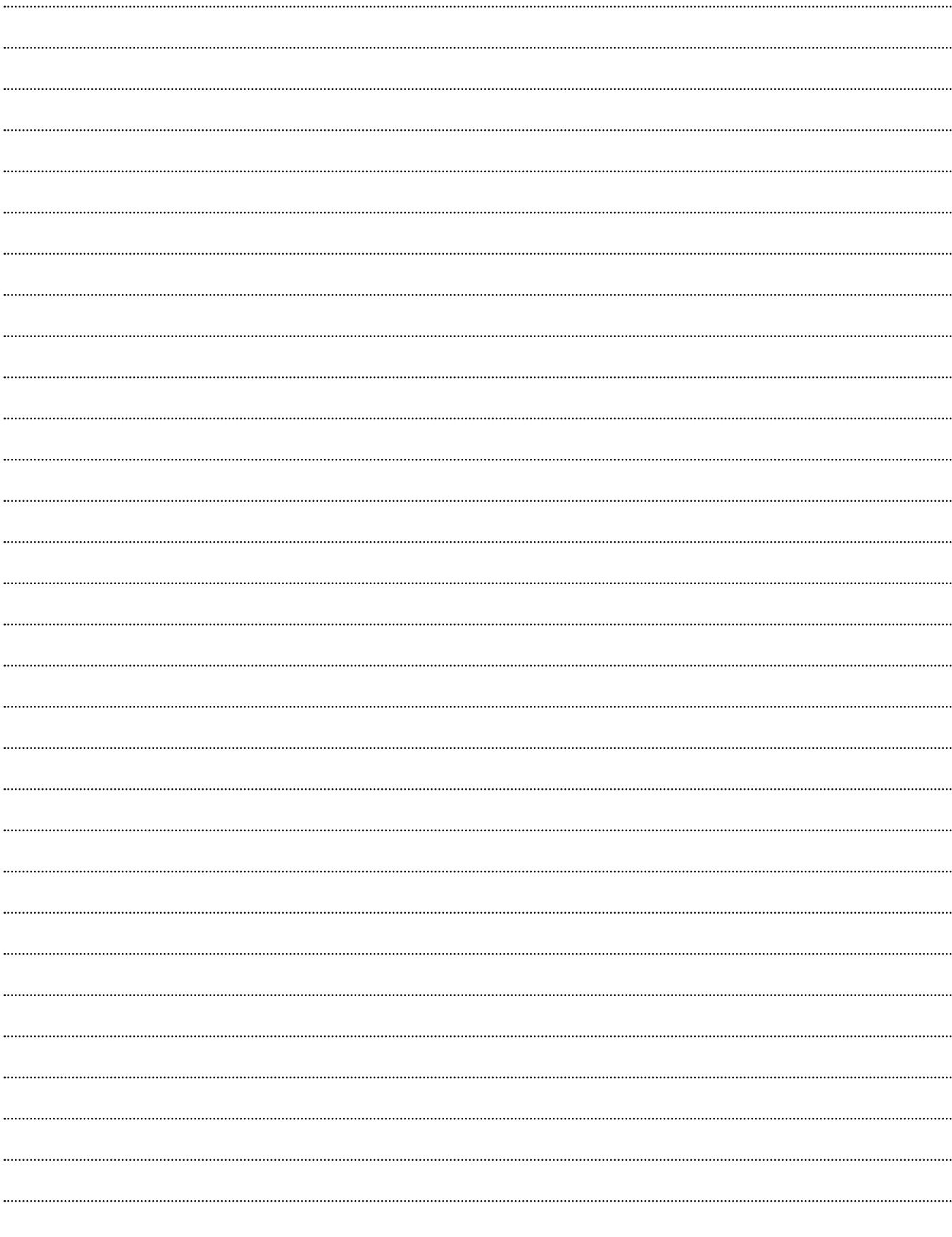
DE3H

DE3L

H	ø	E (0°)	lux
0,5	1,33/1,47	4447	
1,0	2,65/2,94	1112	
1,5	3,98/4,41	494	
2,0	5,31/5,89	278	
2,5	6,64/7,36	178	
3,0	7,96/8,83	124	
111,6° 106,0°			
co-c180	c90-c270		
LO (lm)	3268,0		
E (lm/W)	103,0		
P (W)	31,7		

LO (lm)	3268,0
E (lm/W)	103,0
P (W)	31,7









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