

TUNGSRAM™

Innovation is our heritage
EST. 1896

LED INDOOR FIXTURES AND LAMPS

Product Catalogue





Bright Smart Future

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Solutions

Lamps - Tubes - Plugins

Tungshram is shaping the future of urban living providing technology-driven, smart, sustainable solutions for large metropolitan areas using lighting as a platform.

LED THERE BE LIGHT

The future will be lit by LED. Traditional lighting solutions are set to be fully replaced by LEDs and our aim at Tungsram is to smooth the transition for our customers. Our colleagues have been dedicating their efforts and expertise to the development and installation of LED technologies for nearly two decades. Our retrofit and retrofit-type indoor and outdoor product families make it possible for our clients to enjoy the advantages of this new technology without extra investment.

From future-proof modular solutions to innovative new formats, we deliver high quality LED indoor and outdoor solutions at an affordable price. The latest LED lighting solutions provide an ideal upgrade path for public bodies looking to reduce energy costs and environmental impact while attaining striking aesthetic improvements to landscapes and cityscapes.

Tungsram, an iconic name, returned to the global market in 2018 as a premium innovative European technology brand following the acquisition of GE Lighting's general lighting business in Europe, Middle East, Africa and Turkey as well as GE's global automotive operation.



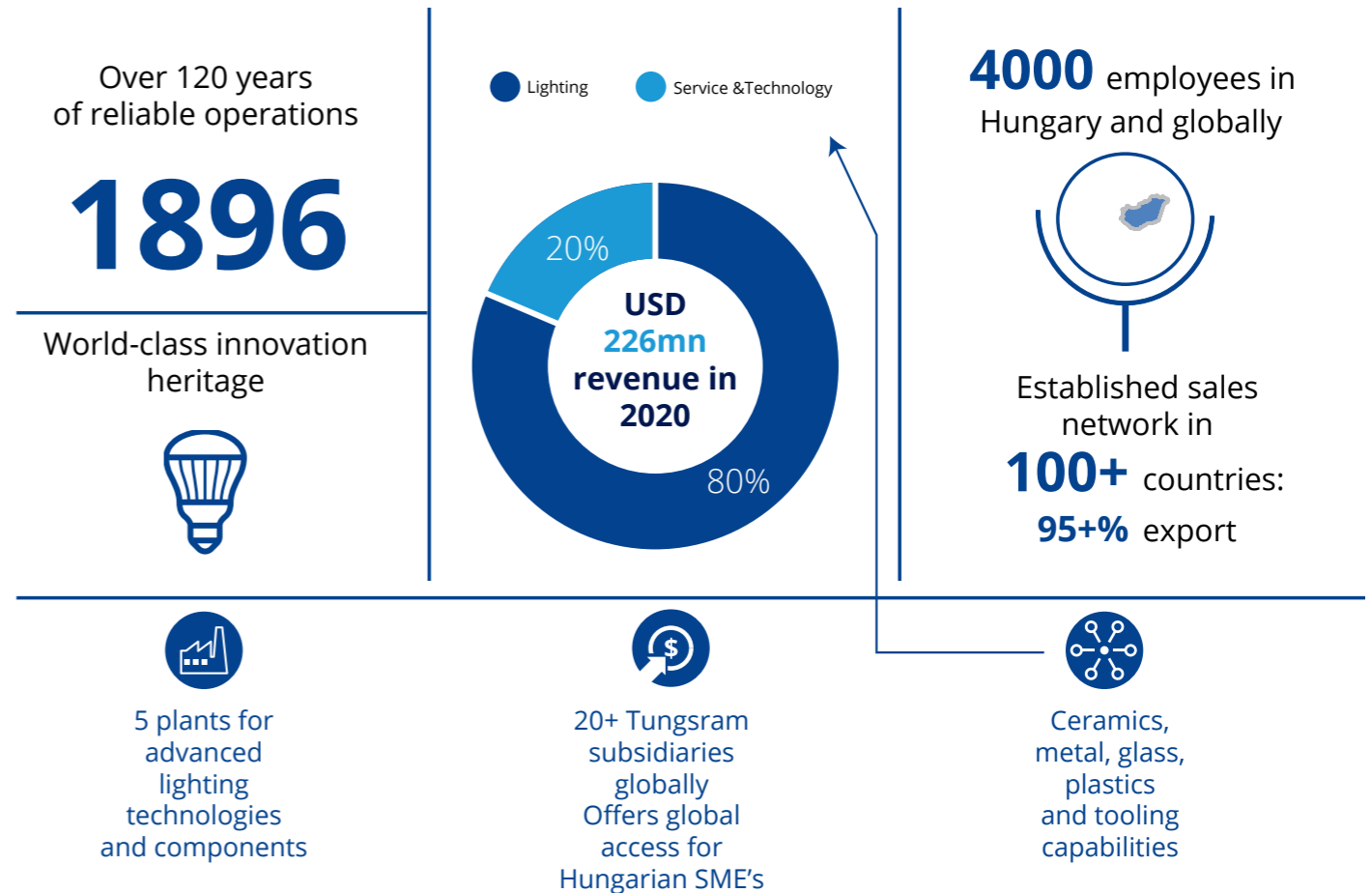
Innovation is our heritage. Originally established in 1896, the company is a brainchild of the 2nd industrial revolution that gave rise to the electrification of the world. From its earliest beginnings through GE's acquisition of the brand in 1989 and to the present day, Tungsram has systematically created new solutions, primarily around its core lighting and telephone technology businesses, as well as medical and radio tubes and television, often leading to exponential sales growth. Today, faced with the opportunities and challenges of the 4th industrial revolution, Tungsram Group invests into future-safe technologies and dynamically growing global market segments such as smart solutions, smart cities and indoor farming while still strengthening its core lighting business.

Every member of the Tungsram team works to create affordable, sustainable technology-based solutions for the continuously urbanizing world with the strategic goal of eventually creating happiness. A smart, bright future - see how we are seeing it.



Jörg Bauer
Chairman-CEO

TUNGSRAM HAS A 120-YEAR-LONG TRACK RECORD AND UNIQUE ASSETS AND CAPABILITIES



Our vision for a brighter tomorrow

Powered by a lighting-industry track record spanning more than 120 years, Tungsram has consciously developed new solutions in its core area of lighting technology since its foundation in 1896. We compete on the world market as a premium European brand, which designs, develops and manufactures products for the needs of today and tomorrow. The lighting product portfolio covers all areas of indoor and outdoor lighting, from private homes to schools, public and office buildings, gas stations, sports arenas, highways and car parks. We offer a comprehensive range of light sources from traditional technologies such as HID, LFL, CFL, Halogen and specialty lamps both for indoor and outdoor installation. From traditional technologies to state-of-the-art LED products, we incorporate energy optimization and system intelligence into our portfolio.

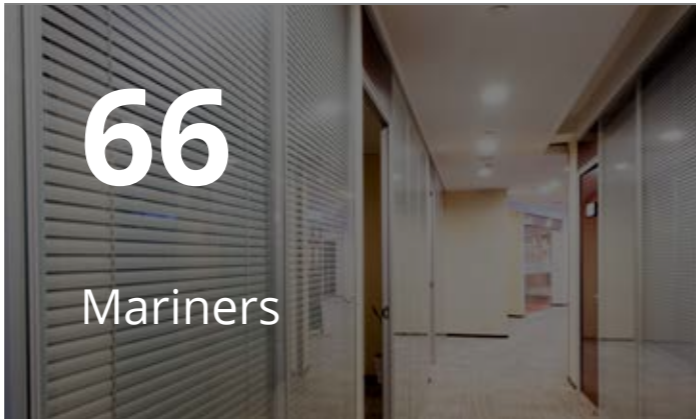
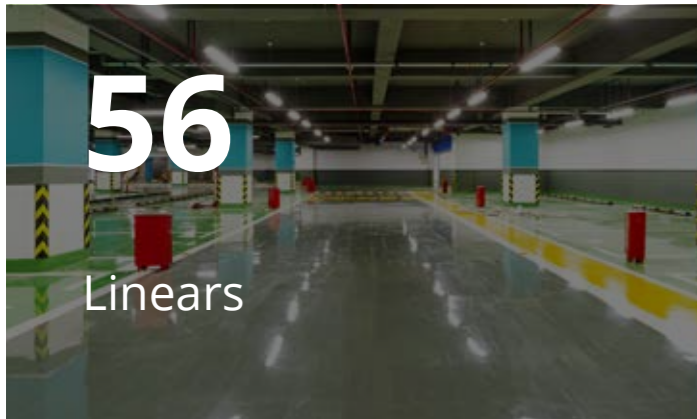
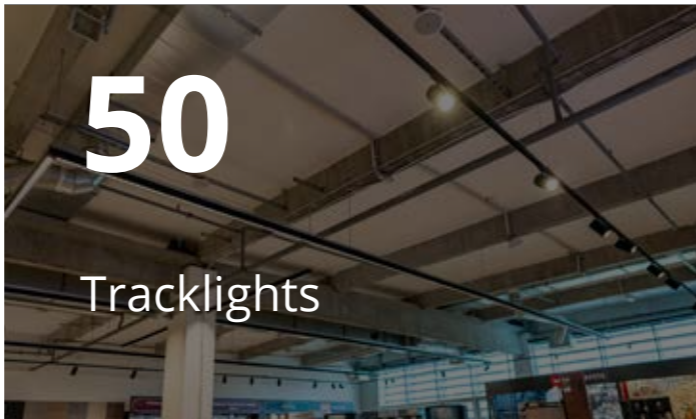
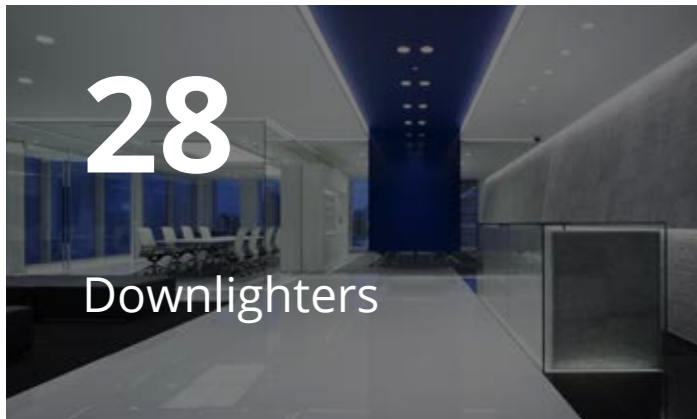
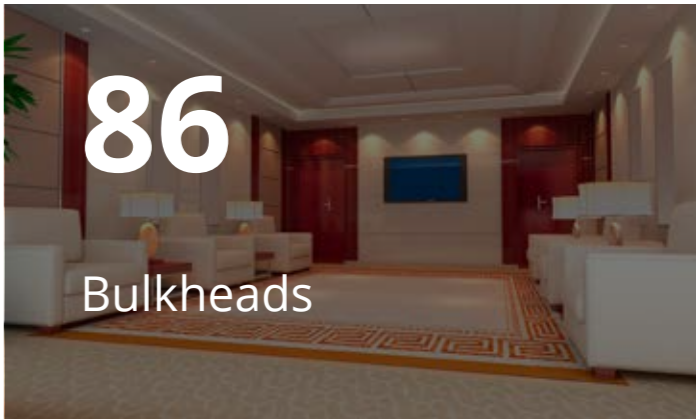
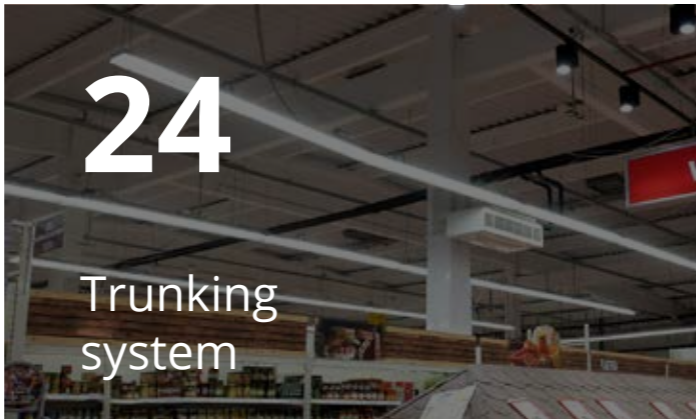
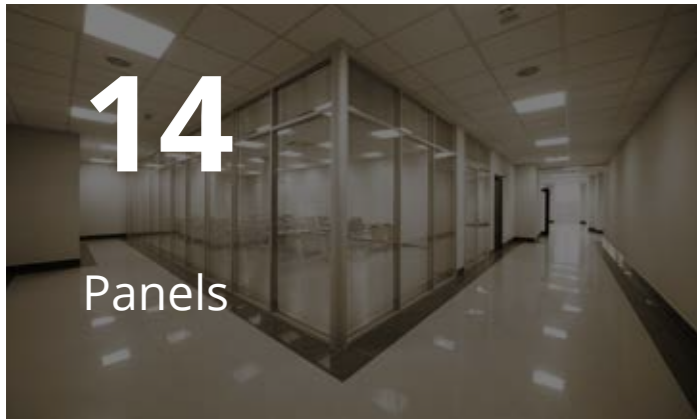


LED INDOOR SOLUTIONS

From future-proof modular solutions to innovative new formats, we deliver high quality LED solutions at an affordable price for vertical market areas such as offices, commercial units, hospitality facilities and industrial sites. Our LED Fixtures portfolio is a comprehensive range of indoor lighting products for any application, across all market sectors, offering a highly attractive combination of light quality, color reproduction, reliability and efficiency.

LED INDOOR SOLUTION

Content



LED INDOOR SOLUTION

Product overview - Indoor fixtures

FiaLUX Premium Backlit Panel



Edgelit Panel Premium/Standard



Edgelit Panel Value



Recessed Spotlight 5W / 6W



Fireproof Downlight



Trackspot LUX / ADV



StraightLUX



Tudolio



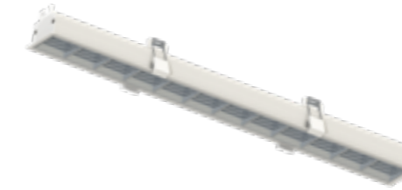
COB Downlight UGR<19 IP54



Torofi



Torofi Recessed



Linear Indirect



COB Downlight Multigimbal



COB Downlight Adjustable / Scoop



Slim Downlight Premium



TubularLinear



Waterproof Programmable mariner with PIR



Waterproof Mariner Integrated Premium



Slim Downlight Value



Diffuser Downlight IP20



Diffuser Downlight IP44



Waterproof Mariner Premium G2



Waterproof Mariner Clips



Waterproof Mariner Integrated Value



LED INDOOR SOLUTION

Product overview - Indoor fixtures

Waterproof Mariner Empty Body



SwiftLUX



T5 Switch Batten



Floodlights G1



Floodlights G3



Floodlight Value



T5 Batten IP65



2D Bulkhead



Integrated Bulkhead



LED Emergency Downlighter



LED Emergency Downlight Surface Mount



LED Emergency Twin Spot



Bulkhead Ceiling Light



LED Emergency Converter Kit



LED Emergency EXIT Signs



LED INDOOR SOLUTION

Panels



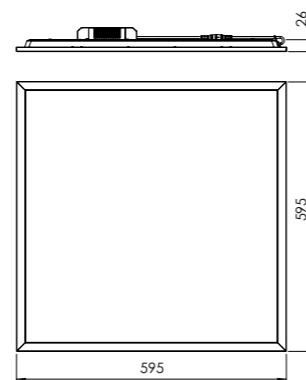
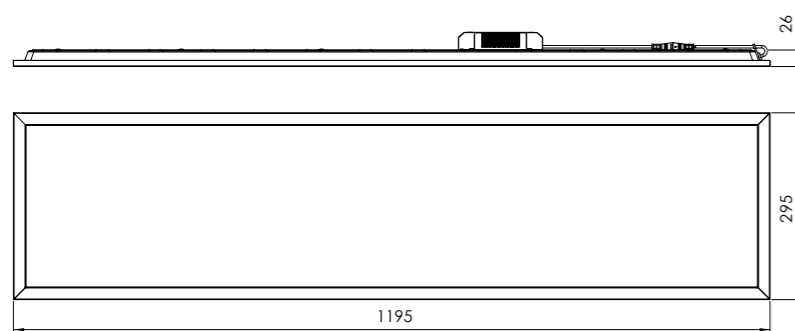
FiaLUX Premium Backlit LED Panel



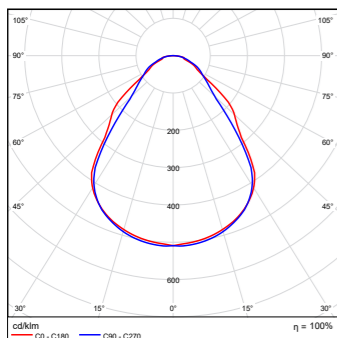
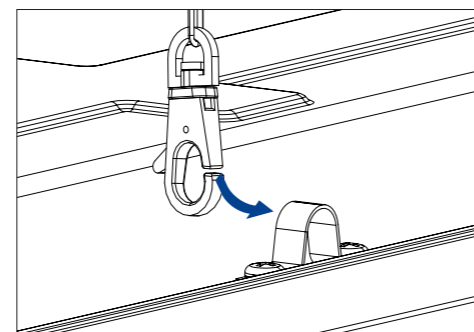
Tungsrám LED luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off they appear completely free of a visible light source. Panels are designed to replace fluorescent fixtures in suspended T-grid ceilings.

Benefits

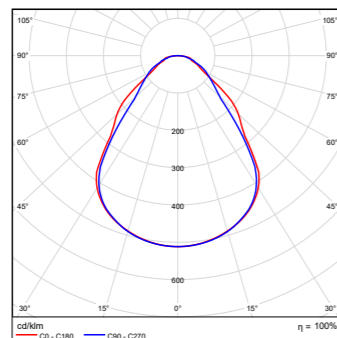
- Power: from 21W to 36W
- Luminous Flux from 2550lm to 5000lm
- Control: Flicker free, Tridonic or Helvar Static and DALI control with "Push dim" function
- Finish: Opal, prismatic diffuser
- Efficiency: up to 140lm/W
- CCT: 3000K and 4000K
- Low glare: UGR<19 (4H8H)
- Junction box with loop-in loop-out function
- Preinstalled Safety hooks for quick installation



Safety Hook



1x4 S2 36W



2x2 S2 36W

FiaLUX Premium Backlit LED Panel



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR (2H4H)	Dimensions (mm)	EEC
FiaLUX Premium backlit panel - Static driver									
FiaLUX 2X2 S2 21W 830 19	93120218	21	2700	129	3000	≤4	<16	595x595x26	E
FiaLUX 2X2 S2 21W 840 19	93120219	21	2900	138	4000	≤4	<16	595x595x26	E
FiaLUX 2X2 S1 27W 830 19	93120220	27	3500	130	3000	≤4	<16	595x595x26	E
FiaLUX 2X2 S1 27W 840 19	93120221	27	3770	140	4000	≤4	<16	595x595x26	E
FiaLUX 2X2 S1 31W 830 19	93120222	31	3850	124	3000	≤4	<16	595x595x26	E
FiaLUX 2X2 S1 31W 840 19	93120223	31	4280	138	4000	≤4	<16	595x595x26	E
FiaLUX 2X2 S2 36W 830 19	93120224	36	4650	129	3000	≤4	<16	595x595x26	E
FiaLUX 2X2 S2 36W 840 19	93120225	36	5000	139	4000	≤4	<16	595x595x26	E
FiaLUX 1X4 S2 21W 830 19	93120226	21	2550	121	3000	≤4	<16	295x1195x26	E
FiaLUX 1X4 S2 21W 840 19	93120227	21	2750	131	4000	≤4	<16	295x1195x26	E
FiaLUX 1X4 S1 27W 830 19	93120228	27	3350	124	3000	≤4	<16	295x1195x26	E
FiaLUX 1X4 S1 27W 840 19	93120229	27	3600	133	4000	≤4	<16	295x1195x26	E
FiaLUX 1X4 S1 31W 830 19	93120230	31	3750	121	3000	≤4	<16	295x1195x26	F
FiaLUX 1X4 S1 31W 840 19	93120231	31	4050	131	4000	≤4	<16	295x1195x26	E
FiaLUX 1X4 S2 36W 830 19	93120232	36	4550	126	3000	≤4	<16	295x1195x26	F
FiaLUX 1X4 S2 36W 840 19	93120233	36	4700	131	4000	≤4	<16	295x1195x26	F

FiaLUX Premium backlit panel - DALI driver									
FiaLUX 2X2 D1 36W 830 19	93120234	36	4550	126	3000	≤4	<16	595x595x26	E
FiaLUX 2X2 D1 36W 840 19	93120235	36	4900	136	4000	≤4	<16	595x595x26	E
FiaLUX 1X4 D1 36W 830 19	93120236	36	4350	121	3000	≤4	<16	295x1195x26	F
FiaLUX 1X4 D1 36W 840 19	93120237	36	4700	131	4000	≤4	<16	295x1195x26	E

FiaLUX Accessories									
Fialux Suspension Kit	93120215	-	-	-	-	-	-	-	-
Fialux SM Kit 2X2	93120256	-	-	-	-	-	-	-	-
Fialux SM Kit 1X4	93120257	-	-	-	-	-	-	-	-
Surface mount kit 2X2 Deep	93120719	-	-	-	-	-	-	-	-
Surface mount kit 1X4 Deep	93120720	-	-	-	-	-	-	-	-
Fialux Plasterboard Kit	93120258	-	-	-	-	-	-	-	-
Fialux Connection Box 500mm cable	93120259	-	-	-	-	-	-	-	-

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238 with static control products and 93100239 with the DALI control products.

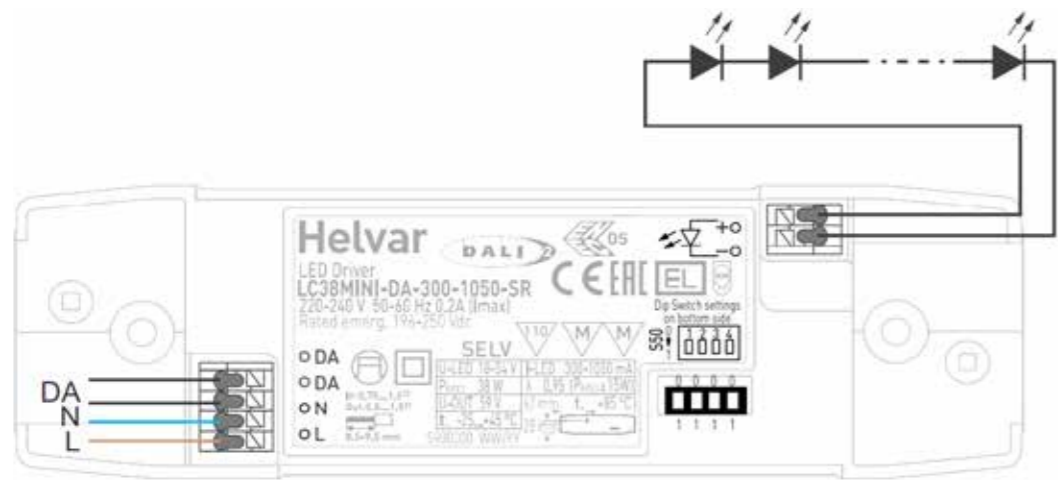


LED INDOOR SOLUTION

Panels

FiaLUX Premium Backlit LED Panel

DALI driver setting and performance

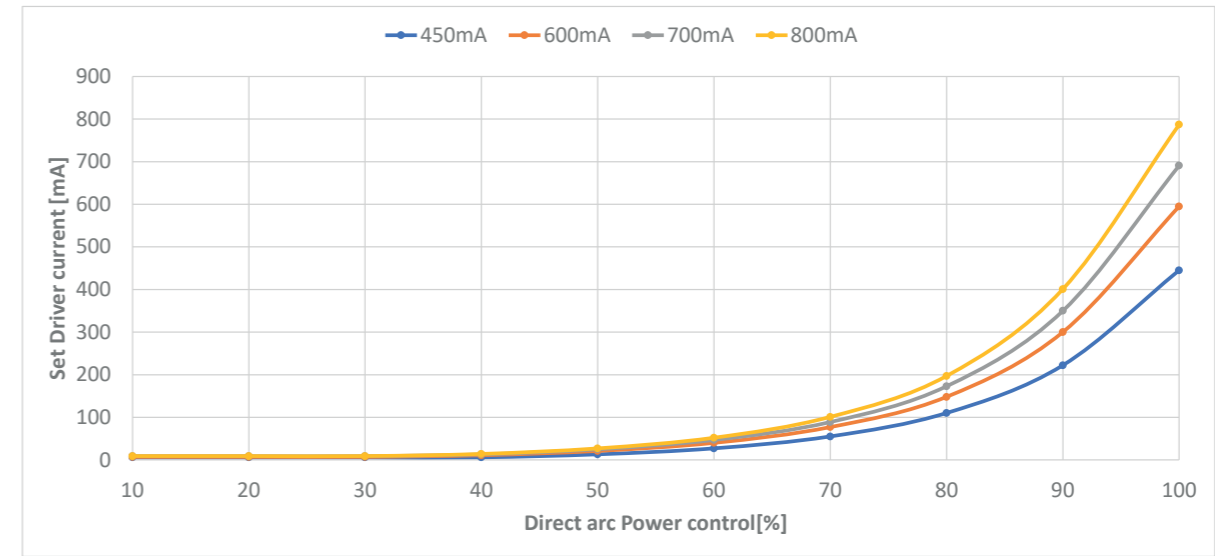


I-LED	PRATED	1	2	3	4
300 mA	16 W	0	0	0	0
350 mA	18 W	1	0	0	0
400 mA	21 W	0	1	0	0
450 mA	24 W	1	1	0	0
500 mA	27 W	0	0	1	0
550 mA	29 W	1	0	1	0
600 mA	32 W	0	1	1	0
650 mA	35 W	1	1	1	0
700 mA	38 W	0	0	0	1
750 mA	38 W	1	0	0	1
800 mA	38 W	0	1	0	1
850 mA	38 W	1	1	0	1
900 mA	38 W	0	0	1	1
950 mA	38 W	1	0	1	1
1000 mA	38 W	0	1	1	1
1050 mA	38 W	1	1	1	1

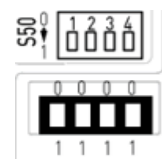
LC38MINI-DA-300-1050-SR

FiaLUX Premium Backlit LED Panel

DALI-DIM DIAGRAM



DIP-SWITCH SETTINGS FOR DRIVER OUTPUT CURRENT



DIP SWITCH SETTING ON DRIVER				
I-set [mA]	1	2	3	4
450	1	1	0	0
500	0	0	1	0
550	1	0	1	0
600	0	1	1	0
650	1	1	1	0
700	0	0	0	1
750	1	0	0	1
800	0	1	0	1

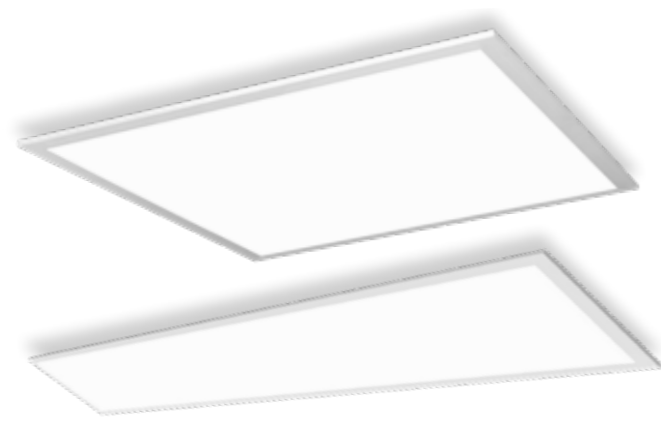
DRIVER OUTPUT			SYSTEM			
Irated	Uout	Pout	Iin	Uin	Psystem	Flux
[mA]	[V]	[W]	[mA]	[V]	[W]	[Lm]
450	40.2	18.1	93	230	20.4	2721
500	40.4	20.2	102	230	22.7	3006
550	40.5	22.3	111	230	24.8	3291
600	40.6	24.4	120	230	27.1	3571
650	40.7	26.4	130	230	29.2	3856
700	40.8	28.6	139	230	31.4	4135
750	40.9	30.7	149	230	33.6	4421
800	41.0	32.3	160	230	36.0	4700

800* -original setting for 36W options.
Different driver output current settings out of this range is not allowed.



Edgelit Panel Premium

Tungram LED luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off they appear completely free of a visible light source. Panels are designed to replace fluorescent fixtures in suspended T-grid ceilings.

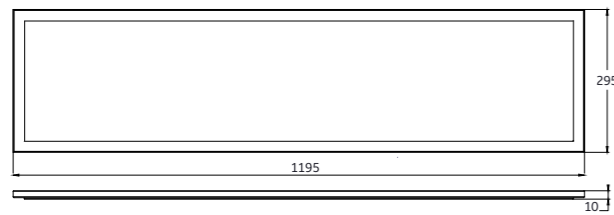


Benefits

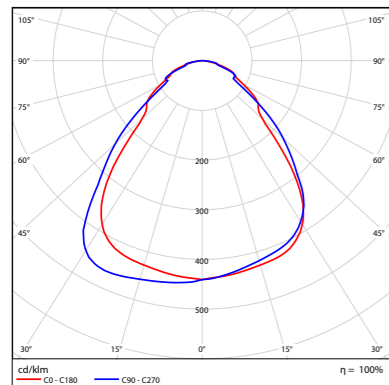
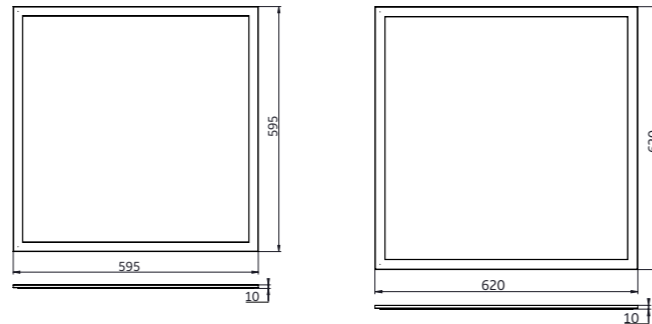
- Power from 24W to 40W
- Control: Tungram static driver and BOKE DALI 2 driver with Push-Dim function
- Energy efficient: Up to 120lm/W efficiency
- Luminous flux: up to 4800 lm
- CCT: 3000K, 4000K, 6500K
- Lifetime: 50.000 hours at L80/B20
- Flicker free
- Easy installation with Loop in-Loop out connection and hook for safety cable
- High quality Samsung chips
- IK03 Impact protection rate

SLIM PROFILE

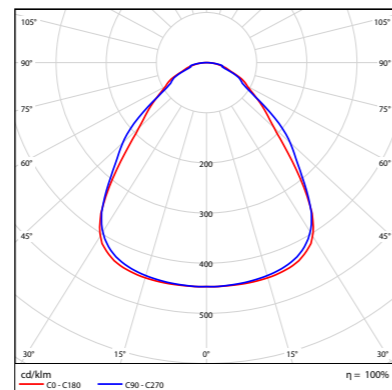
Panel 1x4



Panel 2x2



4000K



4000K

Easy to install into 15mm or 24mm exposed T-grid ceilings

Edgelit Panel Premium



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)
Edgelit Panel Premium - Static driver								
Tung Panel P 1X4 S 24W 840 19	93120524	24	2900	120	4000	≤4	<19	295x1195x9
Tung Panel P 2X2 S 24W 840 19	93120523	24	2900	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 30W 830 19	93118676	30	3450	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 30W 840 19	93118677	30	3600	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 30W 865 19	93118678	30	3600	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 30W 830 19	93118679	30	3450	115	3000	≤4	<19	295x1195x9
Tung Panel P 1x4 S 30W 840 19	93118680	30	3600	120	4000	≤4	<19	295x1195x9
Tung Panel P 1x4 S 30W 865 19	93118681	30	3600	120	6500	≤4	<19	295x1195x9
Tung Panel P 2x2 S 33W 830 19	93119509	33	3800	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 33W 840 19	93119510	33	4000	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 33W 865 19	93119511	33	4000	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 33W 830 19	93119512	33	3800	115	3000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 33W 840 19	93119513	33	4000	120	4000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 33W 865 19	93119514	33	4000	120	6500	≤4	<19	295x1195x10
Tung Panel P 2x2 S 38W 830 19	93118682	38	4370	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 38W 840 19	93118683	38	4560	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 38W 865 19	93118684	38	4560	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 38W 830 19	93118685	38	4370	115	3000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 38W 840 19	93118686	38	4560	120	4000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 38W 865 19	93118687	38	4560	120	6500	≤4	<19	295x1195x10
Tung Panel P 2X2X S 30W 840 19	93120529	30	3600	120	4000	≤4	<19	620x620x10
Tung Panel P 2X2X S 40W 840 19	93120530	40	4800	120	4000	≤4	<19	620x620x10
Edgelit Panel Premium - DALI driver								
Tung Panel S 2x2 D 38W 840 19	93118671	38	4560	120	4000	≤4	<19	595x595x9
Tung Panel S 2x2 D 38W 830 19	93118708	38	4370	115	3000	≤4	<19	595x595x9
Tung Panel S 1x4 D 38W 840 19	93118672	38	4560	120	4000	≤4	<19	295x1195x9
Edgelit Panel Accessories								
Surface mounting Kit 2x2 R9003 P	93117380	-	-	-	-	-	-	-
Surface mounting Kit 1x4 R9003 P	93117381	-	-	-	-	-	-	-
Surface mounting Kit 2x2 DS R9003 P	93117658	-	-	-	-	-	-	-
Surface mounting Kit 1x4 DS R9003 P	93117659	-	-	-	-	-	-	-
SUSPENSION KIT 2X2 LED PANEL P	93118779	-	-	-	-	-	-	-
Edgelit LED Panel Safety Kit P	93118780	-	-	-	-	-	-	-
SUSPENSION KIT 1X4 LED PANEL P	93118781	-	-	-	-	-	-	-
Plasterboard Mount KIT for Edgelit P	93118782	-	-	-	-	-	-	-

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238 with static control products and 93100239 with the DALI control products.

Edgelit Panel Standard

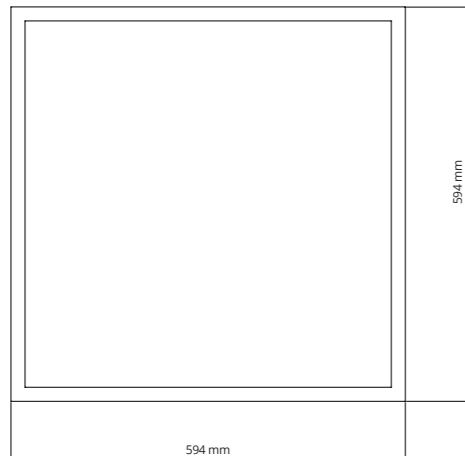
Our standard edgelit panel range is ultrathin and very light, so it is very easy to store and install. The diffuser structure creates an even better light distribution at a low glare level. Our multipack packaging helps you to reduce logistics cost and lower our carbon footprint by reducing the packaging significantly.



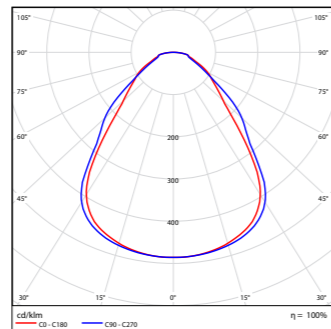
Benefits

- Power from 30W to 48W
- Control: Tungsram Static driver
- CCT: 3000K, 4000K and 6500K
- Even light distribution
- Reliable Samsung chips
- Light weight, easy installation

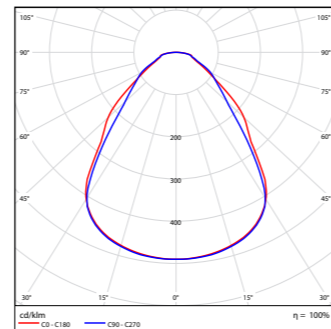
Dimensions (mm)



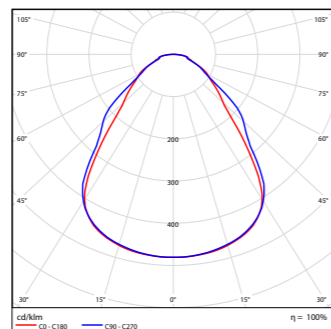
Photometric data



2x2 40W 3000K

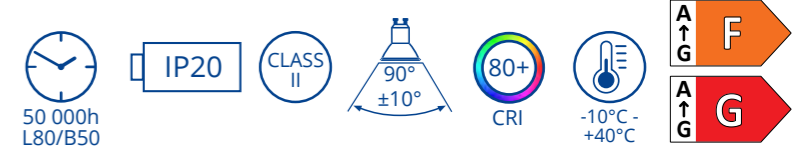


2x2 40W 4000K, 6500K



2x2 30W 3000K, 4000K, 6500K

Edgelit Panel Standard



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)	EEC
Edgelit Panel Standard - Static driver									
Tung Panel S 2x2 S 30W 830 19	93117497	30	3150	105	3000	≤4	<19	595x595x9	G
Tung Panel S 2x2 S 30W 840 19	93117498	30	3300	110	4000	≤4	<19	595x595x9	F
Tung Panel S 2x2 S 30W 865 19	93117499	30	3300	110	6500	≤4	<19	595x595x9	F
Tung Panel S 2x2 S 40W 830 19	93117509	40	4200	105	3000	≤4	<19	595x595x9	G
Tung Panel S 2x2 S 40W 840 19	93117510	40	4400	110	4000	≤4	<19	595x595x9	F
Tung Panel S 2x2 S 40W 865 19	93117511	40	4400	110	6500	≤4	<19	595x595x9	F
Tung Panel HL 2x2 S 48W 830 19	93117519	48	5040	105	3000	≤4	<19	595x595x9	G
Tung Panel HL 2x2 S 48W 840 19	93117520	48	5280	110	4000	≤4	<19	595x595x9	F
Panel Standard - Accessories									
Surface mounting Kit 2x2 R9003 P	93117380								
Surface mounting Kit 2x2 DS R9003 P	93117658								
SUSPENSION KIT 2X2 LED PANEL S	93119769								
Plasterboard Mount KIT for Edgelit S	93119770								
Edgelit LED Panel Safety Kit S	93119771								

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238.



Edgelit Panel Value

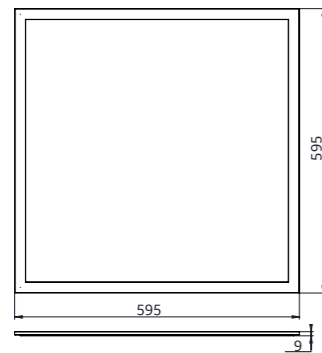
Our new Edgelit panel range is ultrathin and very light, so it is very easy to store and install. The improved diffuser structure creates an even light distribution. Our LED panel is an ideal solution for offices, corridors or any space where an efficient and reliable fixture is needed. Thanks to our wide range of accessories, the product can be mounted in different ways: recessed, suspended or surface mount.



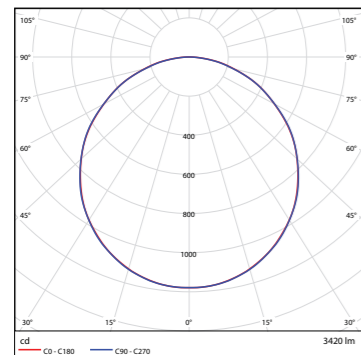
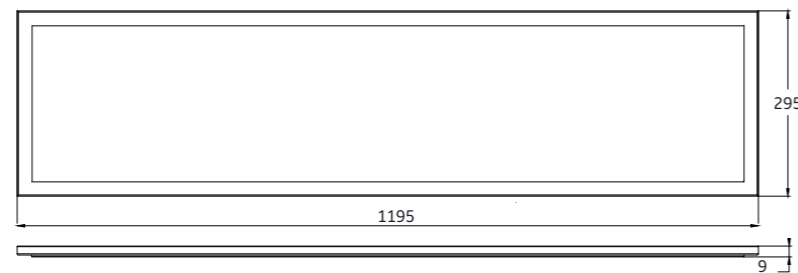
Benefits

- Power from 33W to 36W.
- Control: Tunsgam static driver
- Up to 125 lm/W efficiency
- Up to 4150 lm luminous flux
- CCT: 3000K, 4000K, 6500K
- 30.000hours at L70/B50
- Even light distribution
- Reliable Samsung chips
- Light weight, easy installation

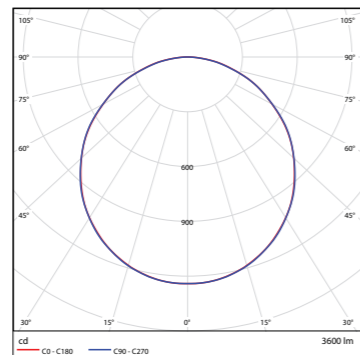
Panel 2x2



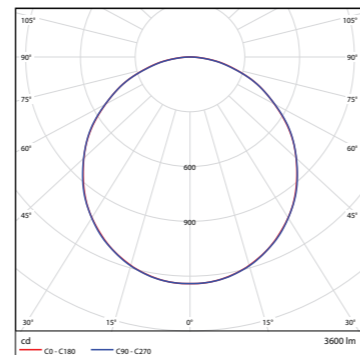
Panel 1x4



3000K



4000K



6500K

Edgelit Panel Value



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)
Edgelit Panel Value - Static driver								
Tung Panel E 2x2 S 36W 830 19	93118673	36	3450	95	3000	≤4	<19	595x595x9
Tung Panel E 2x2 S 36W 840 19	93118674	36	3600	100	4000	≤4	<19	595x595x9
Tung Panel E 2x2 S 36W 865 19	93118675	36	3600	100	6500	≤4	<19	595x595x9
Tung Panel E 1x4 S 36W 830 19	93118706	36	3450	95	3000	≤4	<19	295x1195x9
Tung Panel E 1x4 S 36W 840 19	93118707	36	3600	100	4000	≤4	<19	295x1195x9
Tung Panel E2 2x2 S 33W 830	93120708 *	33	3800	115	3000	≤4	<22	595x595x9
Tung Panel E2 2x2 S 33W 840	93120709 *	33	4000	121	4000	≤4	<22	595x595x9
Tung Panel E2 2x2 S 33W 865	93120710 *	33	4000	121	6500	≤4	<22	595x595x9
Edgelit Panel Value - Accessories								
Surface mounting Kit 2x2 R9003 P	93117380							
Surface mounting Kit 1x4 R9003 P	93117381							
Surface mounting Kit 2x2 DS R9003 P	93117658							
Surface mounting Kit 1x4 DS R9003 P	93117659							
SUSPENSION KIT 2X2 LED PANEL P	93118779							
Edgelit LED Panel Safety Kit P	93118780							
SUSPENSION KIT 1X4 LED PANEL P	93118781							
Plasterboard Mount KIT for Edgelit P	93118782							

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238.
* Available from November



LED INDOOR SOLUTION

Trunking system



Retail / Hotel
Restaurant



Supermarkets,
Hypermarkets

STRAIGHTLUX



Straightlux has been specifically designed for retail outlets to create an ideal shopping environment, where the colors are real, where the details can be seen, and the customer are made comfortable to shop. The new Tungstram Straightlux trunking system is not just about saving energy, which is given by the extreme efficiency of the fixtures, but it is about flexibility in lighting by the modular system and the wide chose of the different optics and light-sources. Discover 21st century lighting solution with Tungstram Straightlux for augmented shopping experience.

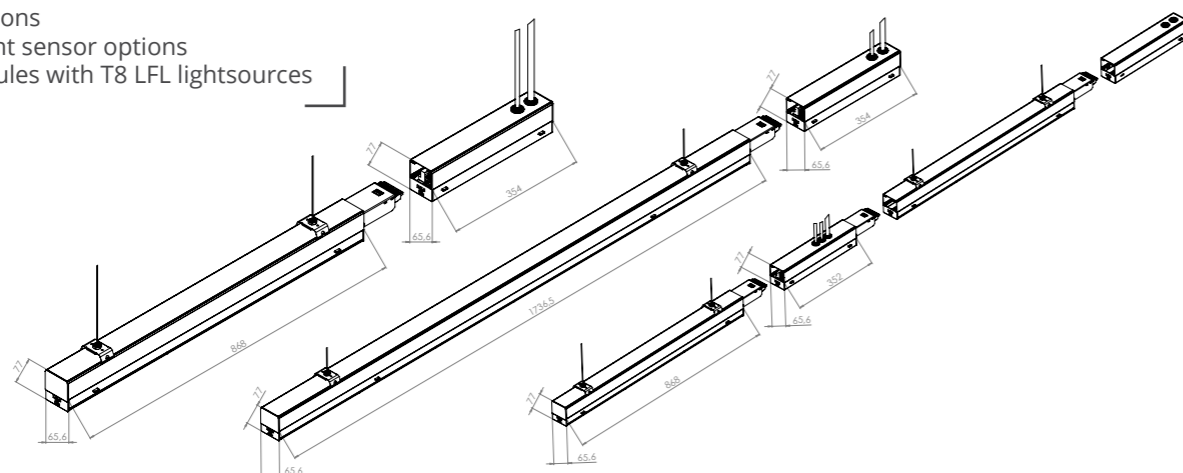


Benefits

- Extremely efficient modules up to 178lm/W
- Easy connect and modular modules
- 2 length of the modules – 865mm and 1730mm
- Lumen packages from 2.000lm to 21.000lm max
- CCT: 3000K, 4000K, 5000K
- Static and DALI2 control
- High quality Soeul Semiconductors chips
- SDCM <3
- CRI80 and CRI90 options

Additional features

- Emergency 3h options
- Motion and daylight sensor options
- UV Sanitizing modules with T8 LFL lightsources



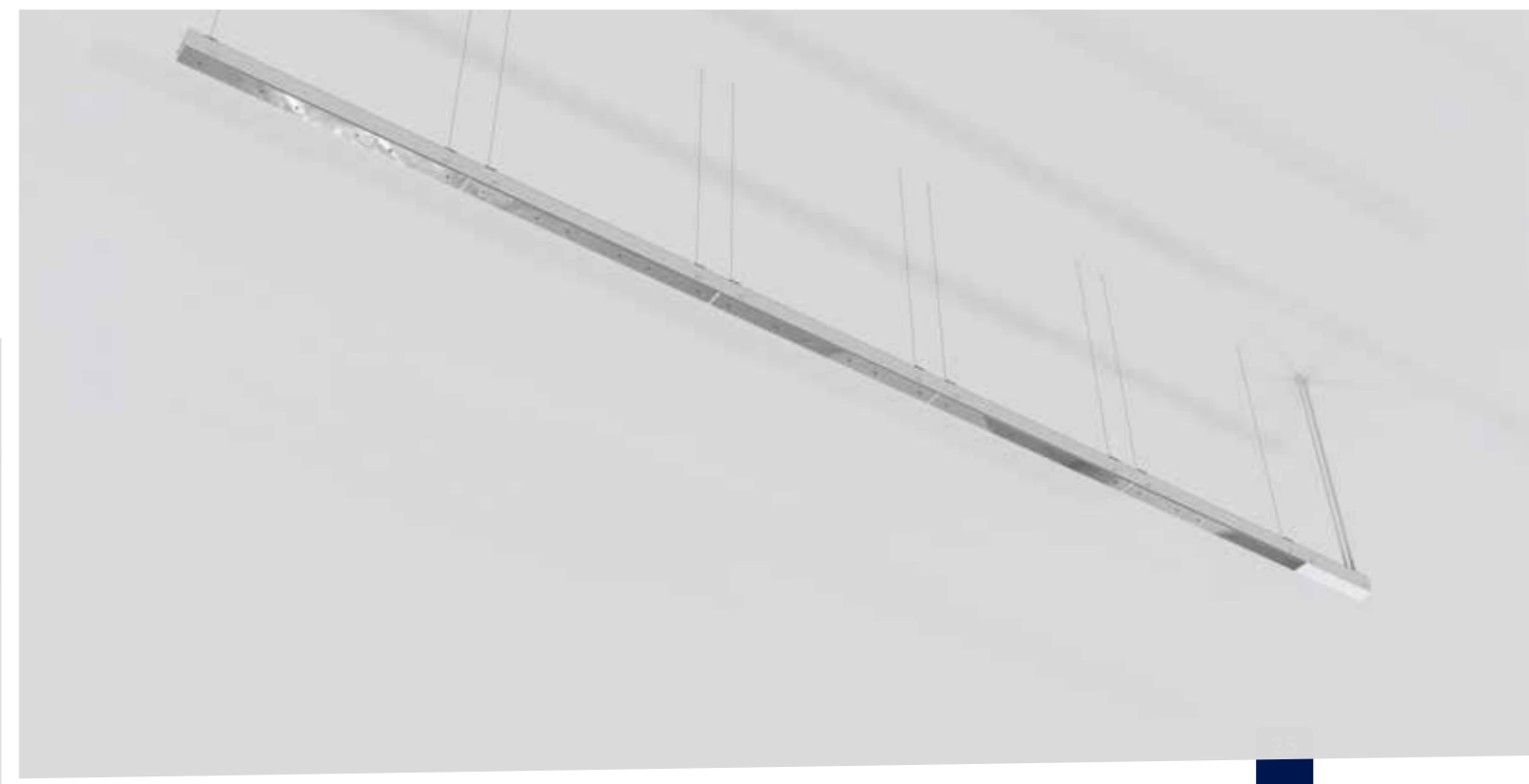
StraightLUX



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimension (mm)	UGR	Beam angle (°)
StraightLUX Trunking system								
SLUX 0.9M 20 840 1PS LGN IP20 10	93120367	13	2000	4000	154	66x865x77	13,6	60°
SLUX 0.9M 20 840 1PS LGW IP20 10	93120368	13	2000	4000	154	66x865x77	19,3	110°
SLUX 0.9M 20 840 1PS LGRS IP20 10	93120369	13	2000	4000	154	66x865x77	13,3	Retail Symetric
SLUX 0.9M 20 840 1PS LGRA IP20 10	93120370	13	2000	4000	154	66x865x77	N/A	Retail Assymetric
SLUX 0.9M 40 840 1PS LGN IP20 10	93120371	25	4000	4000	160	66x865x77	15,5	60°
SLUX 0.9M 40 840 1PS LGW IP20 10	93120372	25	4000	4000	160	66x865x77	21,1	110°
SLUX 0.9M 40 840 1PS LGRS IP20 10	93120373	25	4000	4000	160	66x865x77	15,1	Retail Symetric
SLUX 0.9M 40 840 1PS LGRA IP20 10	93120374	25	4000	4000	160	66x865x77	N/A	Retail Assymetric
SLUX 0.9M 70 840 1PS LGN IP20 10	93120375	45	7000	4000	156	66x865x77	17,2	60°
SLUX 0.9M 70 840 1PS LGW IP20 10	93120396	45	7000	4000	156	66x865x77	22,9	110°
SLUX 0.9M 70 840 1PS LGRS IP20 10	93120397	45	7000	4000	156	66x865x77	16,9	Retail Symetric
SLUX 0.9M 70 840 1PS LGRA IP20 10	93120398	45	7000	4000	156	66x865x77	N/A	Retail Assymetric
SLUX 1.7M 50 840 1PS LGN IP20 10	93120399	30	5000	4000	167	66x1730x77	16,4	60°
SLUX 1.7M 50 840 1PS LGW IP20 10	93120400	30	5000	4000	167	66x1730x77	22,1	110°
SLUX 1.7M 50 840 1PS LGRS IP20 10	93120401	30	5000	4000	167	66x1730x77	16,1	Retail Symetric
SLUX 1.7M 50 840 1PS LGRA IP20 10	93120402	30	5000	4000	167	66x1730x77	N/A	Retail Assymetric
SLUX 1.7M 100 840 1PS LGN IP20 10	93120403	64	10000	4000	156	66x1730x77	18,6	60°
SLUX 1.7M 100 840 1PS LGW IP20 10	93120404	64	10000	4000	156	66x1730x77	24,3	110°
SLUX 1.7M 100 840 1PS LGRS IP20 10	93120405	64	10000	4000	156	66x1730x77	18,3	Retail Symetric
SLUX 1.7M 100 840 1PS LGRA IP20 10	93120406	64	10000	4000	156	66x1730x77	N/A	Retail Assymetric
SLUX 1.7M 150 840 1PS LGN IP20 10	93120407	95	15000	4000	158	66x1730x77	19,8	60°
SLUX 1.7M 150 840 1PS LGW IP20 10	93120408	95	15000	4000	158	66x1730x77	25,5	110°
SLUX 1.7M 150 840 1PS LGRS IP20 10	93120409	95	15000	4000	158	66x1730x77	19,5	Retail Symetric
SLUX 1.7M 150 840 1PS LGRA IP20 10	93120410	95	15000	4000	158	66x1730x77	N/A	Retail Assymetric

The StraightLUX range is available from November 2021.



LED INDOOR SOLUTION

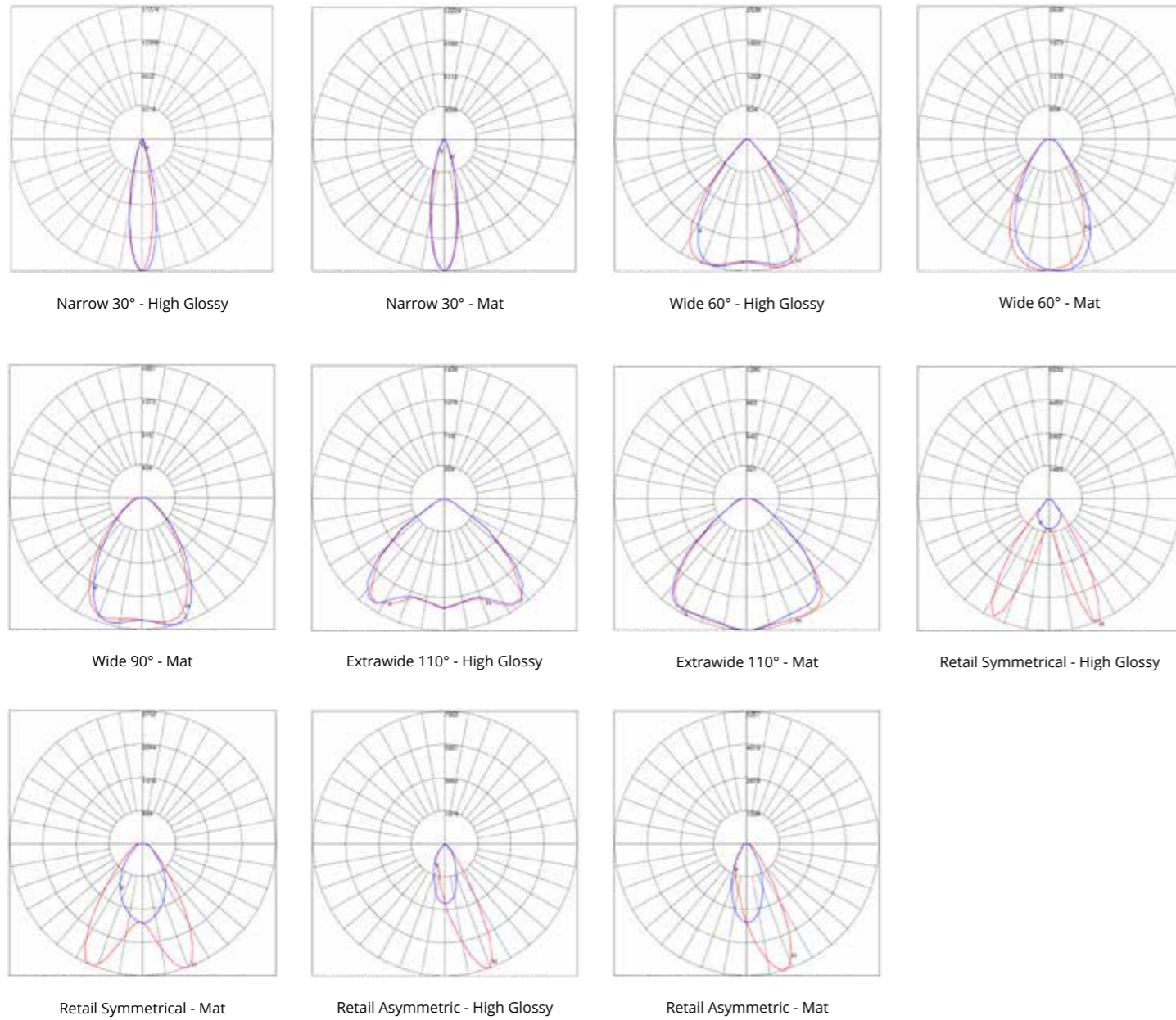
Trunking system

STRAIGHTLUX

Straightlux

LED Indoor

Available optics and Photometric data



Order logic

Family	Length	Lumen Pack	CCT/CRI	Phase	Control	Emergency light	Optic type	Optic	Protection	Color
SLUX = StraightLux	0.9M - 865 mm	20 = 2000lm 25 = 2500lm 30 = 3000lm 35 = 3500lm 40 = 4000lm 45 = 4500lm 50 = 5000lm 55 = 5500lm 60 = 6000lm 65 = 6500lm 70 = 7000lm 75 = 7500lm 80 = 8000lm 85 = 8500lm 90 = 9000lm 95 = 9500lm 100 = 10000lm	830 = 3000 K, CRI80 840 = 4000 K, CRI80 850 = 5000 K, CRI80 930 = 3000 K, CRI90 940 = 4000 K, CRI90 950 = 5000 K, CRI90	1P = 1 phase 3P = 3 phase	S = Static D = Dali	E3 = 3hrs battery	L = Lens	GN = Transparent High Glossy - Narrow GW = Transparent High Glossy - Wide GEW = Transparent High Glossy - Extra wide GAS = Transparent High Glossy - Retail Asymmetric GRS = Transparent High Glossy - Retail Symmetric MN = Transparent Mat - Narrow MW = Transparent Mat - Wide MW9 = Transparent Mat - Wide90 MEW = Transparent Mat - Extra wide MRA = Transparent Mat - Asymmetric MRS = Transparent Mat - Retail Symmetric	IP20	03 = White RAL9003 05 = Black RAL 9005 10 = White RAL 9010
	1.7M - 1730 mm	45 = 4500lm 50 = 5000lm 55 = 5500lm 60 = 6000lm 65 = 6500lm 70 = 7000lm 75 = 7500lm 80 = 8000lm 85 = 8500lm 90 = 9000lm 95 = 9500lm 100 = 10000lm 110 = 11000lm 120 = 12000lm 130 = 13000lm 140 = 14000lm 150 = 15000lm 160 = 16000lm 170 = 17000lm 180 = 18000lm 190 = 19000lm 200 = 20000lm 210 = 21000lm								

Example: SLUX 1.7M 150 840 1PS LGN IP20 10

LED INDOOR SOLUTION

Downlighters



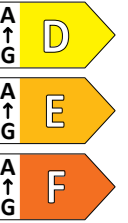
Offices
Shops



Public building
Schools

TUDOLIO

TUDOLIO



LED Indoor

Tungsram Tudolio range offers flexible options to design the right lighting for the given indoor space. Beyond the basic options, the designer has the opportunity to adjust almost all the parameters, like the colour temperature, colour rendering or control system. Create your space with 21 century lighting fixtures.

Benefits

- Excellent color reproduction with CRI92
- Selectable color temperature: 3000K, 4000K, 5700K
- Long lifetime, 50,000 hours
- Esthetical design
- Versatile mounting options, pendant, recessed, surface mount
- High efficiency, up to 122 lm/W



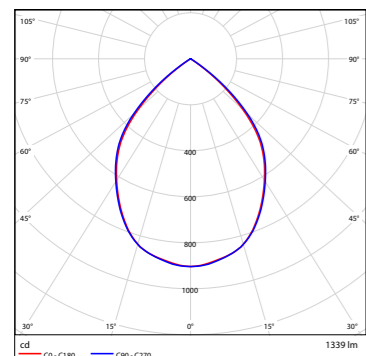
Recessed



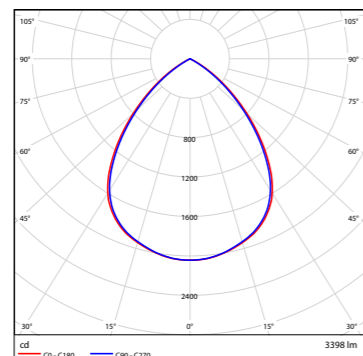
Surface mount



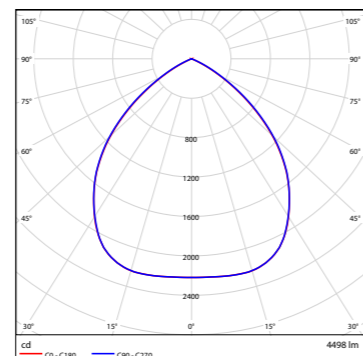
Pendant



13W



30W



37W

Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	Dimensions (mm)	Control	Weight (kg)	CRI (Ra)	Diffuser type	Application	EEC
TUDOLIO - Static and DALI driver *											
TUD 13W 80 S 100 WH RE SP S85	93117439	13	1340	103	Ø 124 x 84	static	0,6	80+	Specular	Recessed	E
TUD 13W 80 D 100 WH RE SP S85	93117440	13	1340	103	Ø 124 x 84	DALI	0,6	80+	Specular	Recessed	E
TUD 30W 80 S 200 WH RE SP S85	93117441	30	3400	113	Ø 221 x 109	static	1,3	80+	Specular	Recessed	D
TUD 30W 80 D 200 WH RE SP S85	93117442	30	3400	113	Ø 221 x 109	DALI	1,2	80+	Specular	Recessed	D
TUD 37W 80 S 300 WH RE SP S85	93117443	37	4500	122	Ø 320 x 113	static	1,8	80+	Specular	Recessed	D
TUD 37W 80 D 300 WH RE SP S85	93117444	37	4500	122	Ø 320 x 113	DALI	1,7	80+	Specular	Recessed	D
TUD 13W 80 S 100 WH SM SP S85	93117445	13	1340	103	Ø 106 x 152	static	0,9	80+	Specular	Surface mount	E
TUD 13W 80 S 100 BL SM SP S85	93117456	13	1340	103	Ø 106 x 152	static	0,9	80+	Specular	Surface mount	E
TUD 30W 80 S 200 WH SM SP S85	93117457	30	3400	113	Ø 203 x 173	static	2,4	80+	Specular	Surface mount	D
TUD 30W 80 D 200 WH SM SP S85	93117458	30	3400	113	Ø 203 x 173	DALI	2,4	80+	Specular	Surface mount	D
TUD 13W 80 S 100 WH PE SP S85	93117459	13	1340	103	Ø 114 x 414	static	1,3	80+	Specular	Pendant	E
TUD 13W 80 S 100 BL PE SP S85	93117460	13	1340	103	Ø 114 x 414	static	1,3	80+	Specular	Pendant	E
TUD 30W 80 S 200 WH PE SP S85	93117461	30	3400	113	Ø 203 x 436	static	2,7	80+	Specular	Pendant	D
TUD 30W 80 D 200 WH PE SP S85	93117462	30	3400	113	Ø 203 x 436	DALI	2,7	80+	Specular	Pendant	D
TUD 13W 90 S 100 WH RE SP S85	93117463	13	1100	85	Ø 124 x 84	static	0,6	92	Specular	Recessed	F
TUD 13W 90 D 100 WH RE SP S85	93117464	13	1100	85	Ø 124 x 84	DALI	0,6	92	Specular	Recessed	F
TUD 30W 90 S 200 WH RE SP S85	93117465	30	2800	92	Ø 221 x 109	static	1,3	92	Specular	Recessed	E
TUD 30W 90 D 200 WH RE SP S85	93117466	30	2800	92	Ø 221 x 109	DALI	1,2	92	Specular	Recessed	E
TUD 37W 90 S 300 WH RE SP S85	93117467	37	3650	99	Ø 320 x 113	static	1,8	92	Specular	Recessed	E
TUD 37W 90 D 300 WH RE SP S85	93117468	37	3650	99	Ø 320 x 113	DALI	1,7	92	Specular	Recessed	E
TUD 13W 90 S 100 WH SM SP S85	93117469	13	1100	85	Ø 106 x 152	static	0,9	92	Specular	Surface mount	F
TUD 13W 90 S 100 BL SM SP S85	93117470	13	1100	85	Ø 106 x 152	static	0,9	92	Specular	Surface mount	F
TUD 30W 90 S 200 WH SM SP S85	93117471	30	2800	93	Ø 203 x 173	static	2,4	92	Specular	Surface mount	E
TUD 30W 90 D 200 WH SM SP S85	93117472	30	2800	93	Ø 203 x 173	DALI	2,4	92	Specular	Surface mount	E
TUD 13W 90 S 100 WH PE SP S85	93117473	13	1100	85	Ø 114 x 414	static	1,3	92	Specular	Pendant	F
TUD 13W 90 S 100 BL PE SP S85	93117474	13	1100	85	Ø 114 x 414	static	1,3	92	Specular	Pendant	F
TUD 30W 90 S 200 WH PE SP S85	93117475	30	2800	93	Ø 203 x 436	static	2,7	92	Specular	Pendant	E
TUD 30W 90 D 200 WH PE SP S85	93117476	30	2800	93	Ø 203 x 436	DALI	2,7	92	Specular	Pendant	E

All the products have selectable colour temperatures - 3000K, 4000K, 5700K



LED INDOOR SOLUTION

Downlighters



Shop /
Supermarket /
Hotel / Hospitality

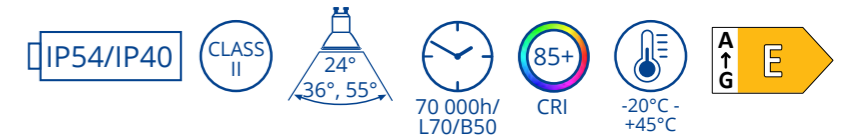


General lighting /
Office

COB Downlight UGR<19 IP54

The new Tungsram IP54 Downlight range with traditional deep reflector (UGR<19) provides the perfect combination of high-efficiency, comfortable lighting and design, without compromising on light performance. Due to the interchangeable optics (24°, 36°, 55° beam angle) it offers a wide choice of options for creating the desired ambience. IP54 range is designed for general lighting applications in offices, supermarkets, shops, schools, hotels, etc. It is also widely used for public areas, such as stairways, lobbies, and receptions.

COB Downlight UGR<19 IP54



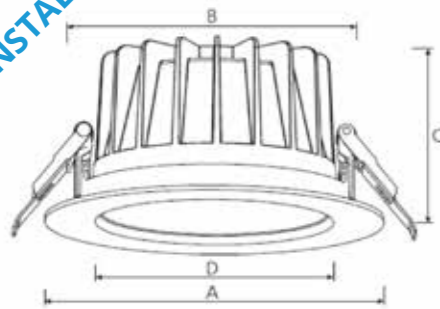
Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight UGR<19 IP54 - Static driver								
LED DLR G1 10W 840 S 36D G	93117198	10	1050	4000	54/40	105	Ø95x54	0,2
LED DLR G1 10W 840 S 36D W	93117197	10	1050	4000	54/40	105	Ø95x54	0,2
LED DLR G1 18W 830 S 55D W	93113196	18	2000	3000	54/40	111	Ø172x90	0,7
LED DLR G1 18W 840 S 55D W	93113197	18	2000	4000	54/40	111	Ø172x90	0,7
LED DLR G1 23W 830 S 55D W	93113198	23	2500	3000	54/40	109	Ø172x90	0,7
LED DLR G1 23W 840 S 55D W	93113199	23	2500	4000	54/40	109	Ø172x90	0,7
LED DLR G1 33W 830 S 55D W	93113200	33	3400	3000	54/40	103	Ø228x99	1,1
LED DLR G1 33W 840 S 55D W	93113201	33	3400	4000	54/40	103	Ø228x99	1,1
COB Downlight UGR<19 IP54 Accessories								
DLR Lens 18W/23W 24D 10PC	93114811	-	-	-	-	-	-	-
DLR Lens 18W/23W 36D 10PC	93114812	-	-	-	-	-	-	-
DLR Lens 18W/23W 55D 10PC	93114813	-	-	-	-	-	-	-
DLR Lens 33W 24D 10PC	93114814	-	-	-	-	-	-	-
DLR Lens 33W 36D 10PC	93114815	-	-	-	-	-	-	-
DLR Lens 33W 55D 10PC	93114986	-	-	-	-	-	-	-
DLR Reflector 18W/23W specular	93114987	-	-	-	-	-	-	-
DLR Reflector 33W specular	93114988	-	-	-	-	-	-	-



Benefits

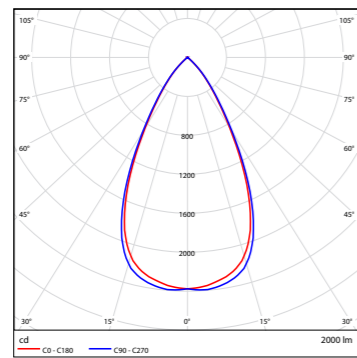
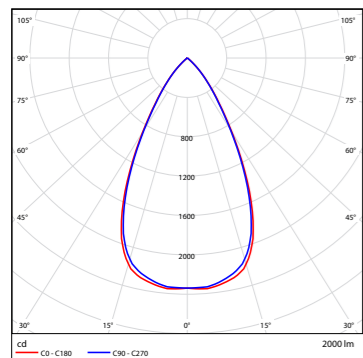
- High luminous efficiency
- High energy savings up to 70% when compared with conventional CFL fixtures
- Easy installation and maintenance
- Affordable solution for retrofit or new installations
- Low glare rate, UGR<19
- 80 CRI+ (90 CRI optional)

EASY
INSTALLATION



Description	A	B	C	D	Size (mm)	Weight (kg)
LED DLR G1 18Wxxx	172	145	90	127	Ø172x90	0.840
LED DLR G1 23Wxxx	172	145	90	127	Ø172x90	0.840
LED DLR G1 33Wxxx	228	195	99	176	Ø228x99	1.305

Up to 3400lm



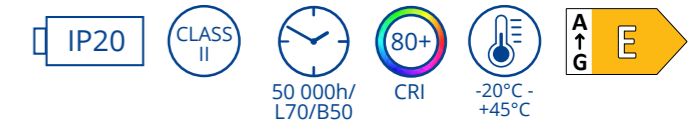
LED INDOOR SOLUTION

Downlighters



COB Downlight Multigimbal

COB Downlight Multigimbal



The Multigimbal luminaire is the ideal choice for commercial or retail applications. The luminaire offers a mixture of functionality and performance. The unique modular design allows for easy replacement of the module and therefore offers a low maintenance solution.

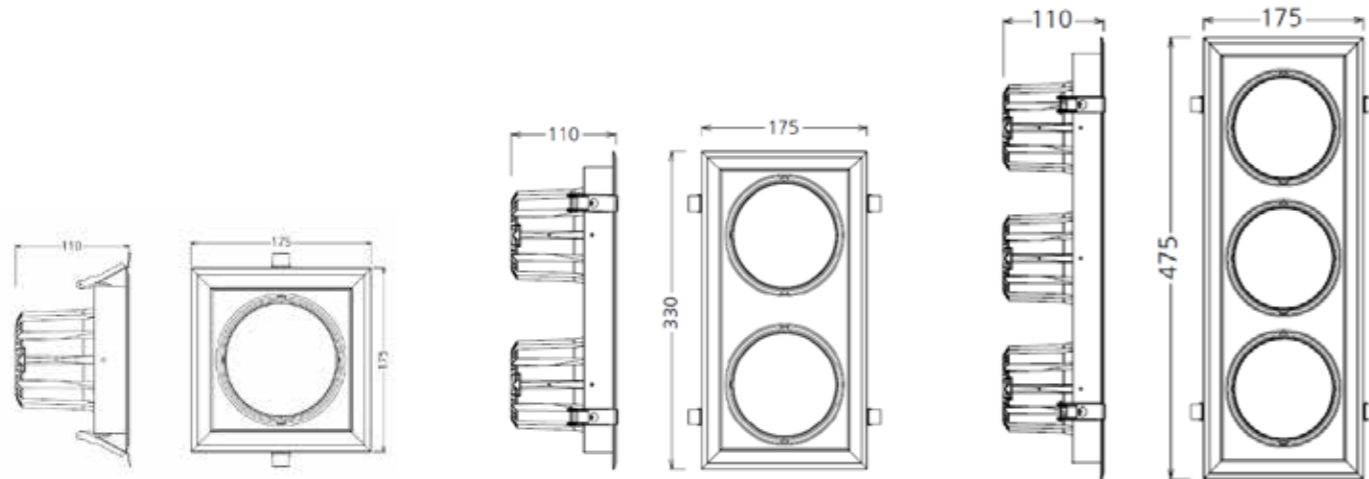
The 340° rotational angle allows you to tailor the light to where you need it, with the options to create general lighting or accent lighting.



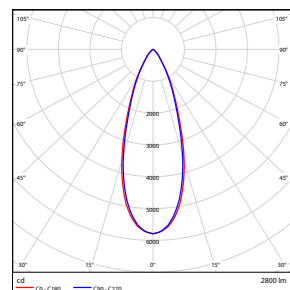
Benefits

- Up to 70% energy saving compared to standard CMH
- Adjustable and rotary
- Static remote driver (1 per light engine/head)
- Aluminium housing
- Precise light distribution
- Replaceable light engine / head

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight Multigimbal - Static driver								
LED Gimbal 1x30W 830 S 36D	93113180	30	2800	3000	15	93	175x175x110	1,25
LED Gimbal 1x30W 840 S 36D	93113183	30	2800	4000	15	93	175x175x110	1,25
LED Gimbal 2x30W 830 S 36D	93113186	60	5600	3000	24	93	330x175x110	2,25
LED Gimbal 2x30W 840 S 36D	93113189	60	5600	4000	24	93	330x175x110	2,25
LED Gimbal 3x30W 830 S 36D	93113192	90	8400	3000	36	93	475x175x110	3,2
LED Gimbal 3x30W 840 S 36D	93113195	90	8400	4000	36	93	475x175x110	3,2



Up to 8400lm



36°



LED INDOOR SOLUTION

Downlighters



Education



Residential



Offices /
Banks



Art-galleries



Retail



Hospitality

COB Downlight Adjustable / Scoop

Tungram COB downlighter is uniquely designed with reflector and Citizen high power LED chip. The die-cast aluminium profile provides excellent thermal dissipation. With the wide angle of the adjustable lighting direction, you can create all possible lighting effects.

COB Downlight Adjustable / Scoop

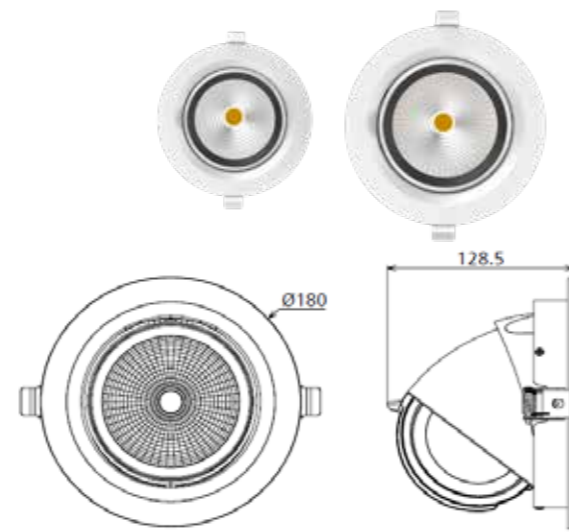
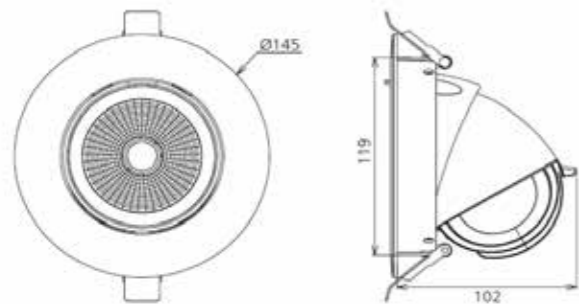


Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight Adjustable / Scoop - Static driver								
LED Scoop 20W 830 S 40D	93114877	20	2100	3000	40	105	Ø145x102	1,07
LED Scoop 20W 830 S 50D	93114878	20	2100	3000	50	105	Ø145x102	1,07
LED Scoop 20W 840 S 40D	93114880	20	2200	4000	40	110	Ø145x102	1,07
LED Scoop 20W 840 S 50D	93114881	20	2200	4000	50	110	Ø145x102	1,07
LED Scoop 33W 830 S 40D	93114427	33	3400	3000	40	103	Ø180x125	1,07
LED Scoop 33W 830 S 50D	93114428	33	3400	3000	50	103	Ø180x125	1,07
LED Scoop 33W 840 S 40D	93114430	33	3500	4000	40	106	Ø180x125	1,07
LED Scoop 33W 840 S 50D	93114431	33	3500	4000	50	106	Ø180x125	1,07

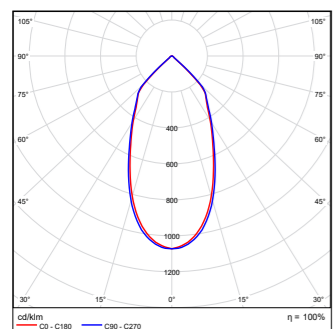


Benefits

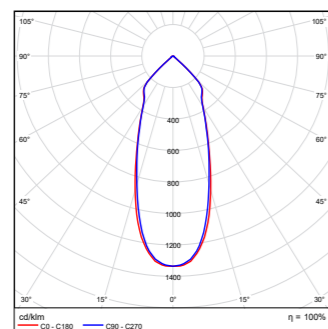
- Up to 50% energy saving compared to standard HID
- Non-dimmable remote driver with plug and play connection
- White finishing
- Adjustable tilt angle from -15° to 35°
- Die-cast aluminium body and heatsink for good thermal management
- LED lifespan L70B50 50.000 hours at 25°C



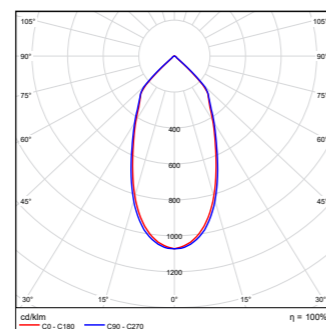
40 degree optics



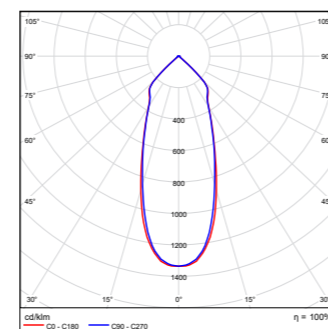
20W 3000K



20W 4000K



33W 3000K



33W 4000K



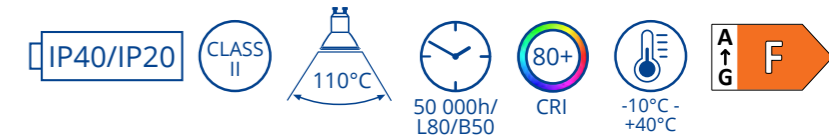
LED INDOOR SOLUTION

Downlighters

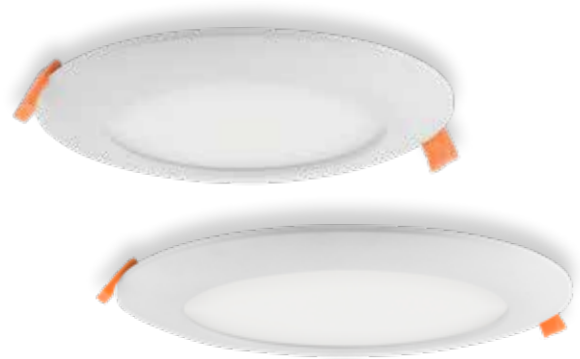


Slim Downlight Premium

Slim Downlight Premium



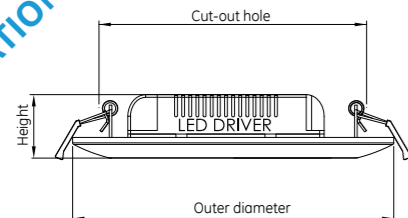
Tungsrām Slim Downlight Premium products are ultra-thin, recessed luminaires, designed to directly replace CFL lamps. Available in different sizes and colour-temperature options. With this extra slim range, lighting can be easily upgraded in offices, commercial buildings or retail outlets. An excellent choice for switching to LED and benefiting from their energy saving and long lifetime.



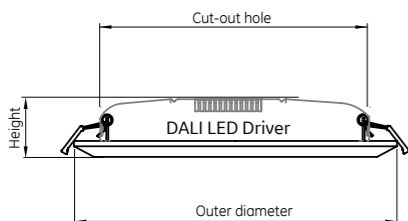
Benefits

- Direct replacement for compact fluorescent lamp downlights
- Up to 54% energy saving compared to CFL lamps
- Affordable solution for retrofit or new installations
- Easy installation
- Product height with driver (36mm) fits more ceiling types

EASY
INSTALLATION



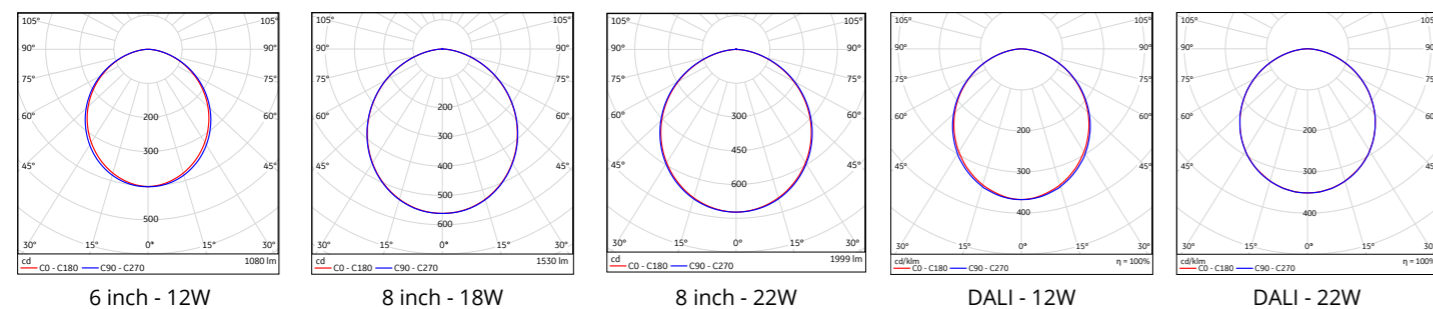
LOW
WEIGHT



Type	Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (g) (with driver)	Weight (g) (without driver)
Static	6"/148 mm	180+/-2	36	150+/-2	310	240
Static	8"/200 mm	240+/-2	36	200+/-2	520	430

Type	Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (g) (with driver)	Weight (g) (without driver)
DALI	6"/148 mm	180+/-2	43	150+/-2	440	240
DALI	8"/200 mm	240+/-2	43	200+/-2	630	430

Up to 2000lm



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Slim Downlight Premium - Static driver								
LED DLR SLIM P1 TU6 IP40 12W 830 SST	93108085	12	1080	3000	20	90	Ø180x36	0,31
LED DLR SLIM P1 TU6 IP40 12W 840 SST	93108086	12	1080	4000	20	90	Ø180x36	0,31
LED DLR SLIM P1 TU8 IP40 18W 830 SST	93108087	18	1530	3000	20	85	Ø240x36	0,52
LED DLR SLIM P1 TU8 IP40 18W 840 SST	93108088	18	1620	4000	20	90	Ø240x36	0,52
LED DLR SLIM P1 TU8 IP40 22W 830 SST	93108090	22	2000	3000	20	91	Ø240x36	0,52
LED DLR SLIM P1 TU8 IP40 22W 840 SST	93108091	22	2000	4000	20	91	Ø240x36	0,52
Slim Downlight Premium - DALI driver								
LED DLR SLIM P1 TU6 IP40 12W 830 DST	93108096	12	1080	3000	40/20	90	Ø180x43	0,44
LED DLR SLIM P1 TU6 IP40 12W 840 DST	93108097	12	1080	4000	40/20	90	Ø180x43	0,44
LED DLR SLIM P1 TU8 IP40 22W 830 DST	93108098	22	2000	3000	40/20	91	Ø240x43	0,63
LED DLR SLIM P1 TU8 IP40 22W 840 DST	93108099	22	2000	4000	40/20	91	Ø240x43	0,63



LED INDOOR SOLUTION

Downlighters



General lighting / Residential



Retail



Hospitality



Office

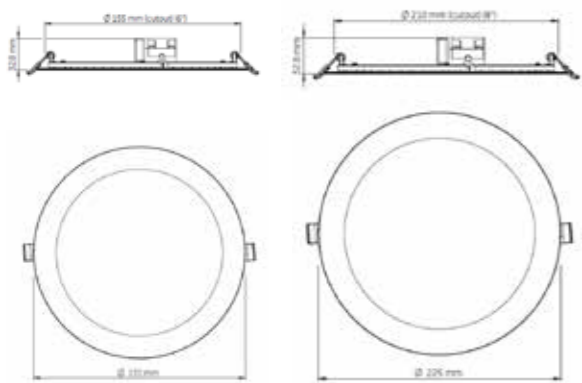
Slim Downlight Value

The Slim Downlight Start range of recessed luminaires designed to replace traditional CFL downlighters directly and affordably. The products' slim design fits in narrow spaces but can be used in any location where 6 inch or 8 inch downlighters are needed.

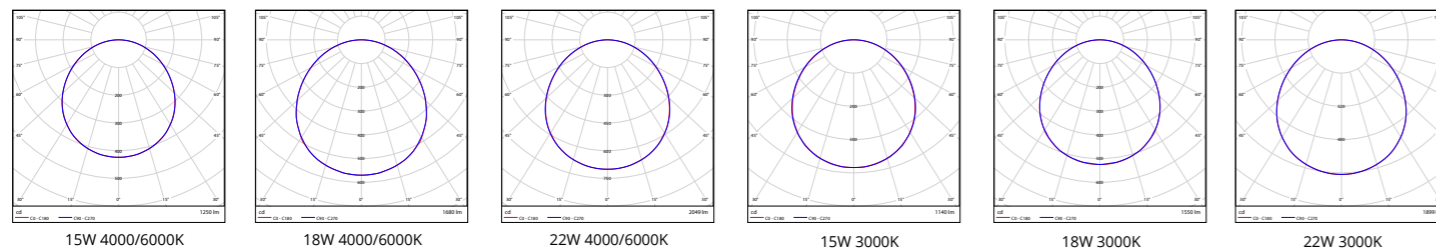


Benefits

- Functional design
- One-to-one replacement for conventional luminaires
- Up to 60% energy saving compared to CFL solutions
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Shallow installation depth
- Wire spring leaf for secure installation



Type	Outer size (mm)	Fixture height (mm)	Fixture height with driver (mm)	Cut-out hole (mm)	Weight (kg) with driver
15W	Ø170mm	11mm	32.8mm	155mm	0.245
18W	Ø225mm	11mm	32.8mm	210mm	0.340
22W	Ø225mm	11mm	32.8mm	210mm	0.340



Slim Downlight Value



LED Indoor

Product Description

Slim Downlight Value - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
93109204	15	1140	3000	76	Ø170x11	0,25
93109205	15	1250	4000	83	Ø170x11	0,25
93109208	18	1550	3000	86	Ø225x11	0,34
93109209	18	1680	4000	93	Ø225x11	0,34
93109212	22	1900	3000	86	Ø225x11	0,34
93109213	22	2050	4000	93	Ø225x11	0,34

This range is available only until stock lasts.



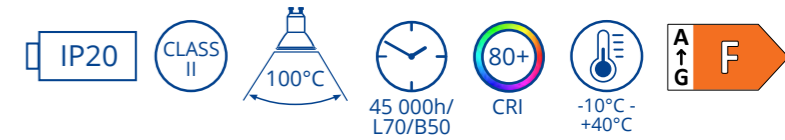
LED INDOOR SOLUTION

Downlighters



Diffuser Downlight IP20

Diffuser Downlight IP20



Tungram introduces the new standard range of LED Diffuser Downlighters. A selection of sizes and colour temperature options will meet customer requirements. With this new range, lighting can be upgraded in key environments such as offices, commercial buildings, retail, and hospitality.



Benefits

- Direct replacement for compact fluorescent lamp downlights
- Over 55%+ energy saving compared to luminaires that use CFL PI lamps
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Easy installation with fast connection

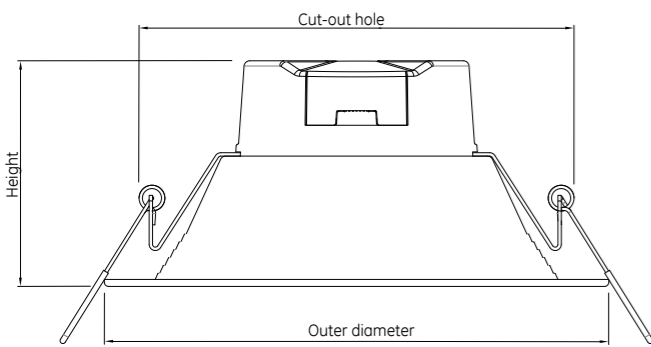
Product Description

Diffuser Downlight IP20 - Static driver

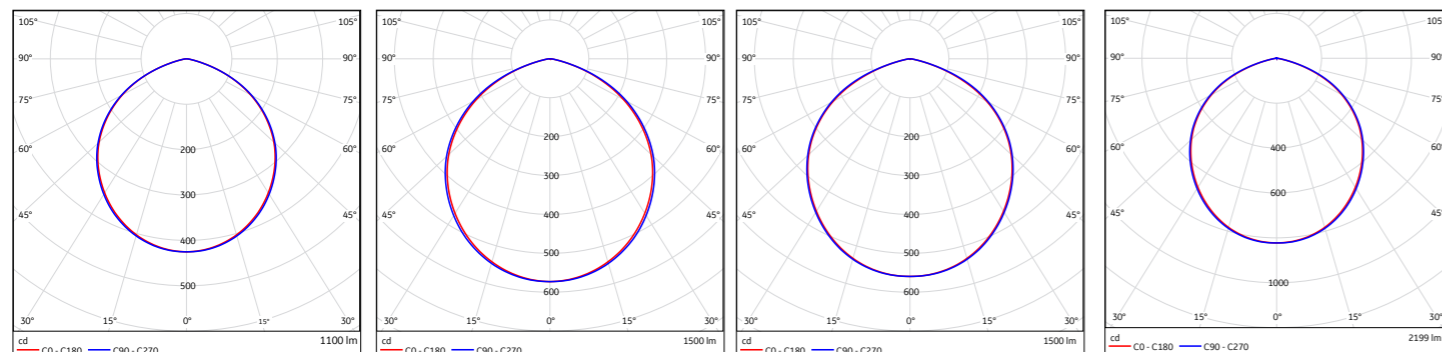
Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
LED DLR Diff P1 TU6 IP20 11W 830 SST	93108076	11	1100	3000	100	Ø180x81	0,32
LED DLR Diff P1 TU6 IP20 11W 840 SST	93107533	11	1100	4000	100	Ø180x81	0,32
LED DLR Diff P1 TU6 IP20 15W 830 SST	93108077	15	1500	3000	100	Ø180x81	0,32
LED DLR Diff P1 TU6 IP20 15W 840 SST	93107534	15	1500	4000	100	Ø180x81	0,32
LED DLR Diff P1 TU8 IP20 15W 830 SST	93108078	15	1500	3000	100	Ø240x93	0,48
LED DLR Diff P1 TU8 IP20 15W 840 SST	93107535	15	1500	4000	100	Ø240x93	0,48
LED DLR Diff P1 TU8 IP20 22W 830 SST	93108079	22	2200	3000	100	Ø240x93	0,5
LED DLR Diff P1 TU8 IP20 22W 840 SST	93107536	22	2200	4000	100	Ø240x93	0,5

Accessories

Diffuser DLR accessory ring 6 inch	93116146	-	-	-	-	-	-
Diffuser DLR accessory ring 8 inch	93116147	-	-	-	-	-	-



Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (g)
6"/148 mm	180+/- 2	81	155-160	320
8" /200 mm	240+/-2	93	200-205	480



LED INDOOR SOLUTION

Downlighters



General illumination



Stairways, corridors



Retail



Hospitality



Office

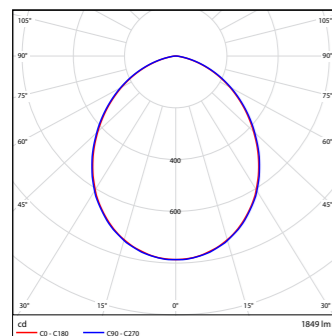
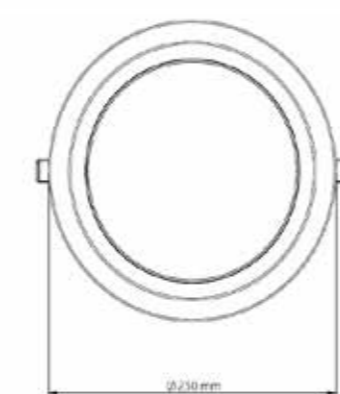
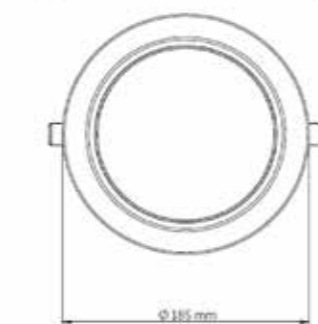
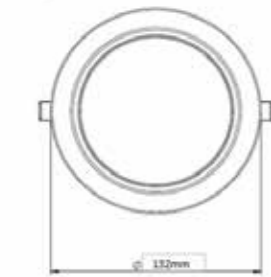
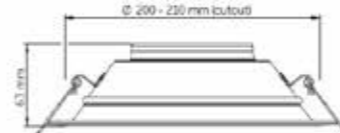
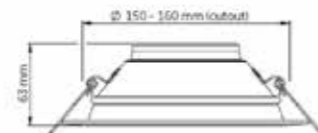
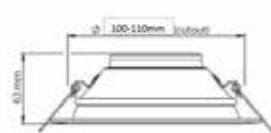
Diffuser Downlight IP44

Tungram introduces the IP44 LED Diffuser Downlighters. A selection of sizes and colour temperature options will meet customer requirements. With this new range, lighting can be upgraded in key environments such as offices, commercial buildings, retail, and hospitality.

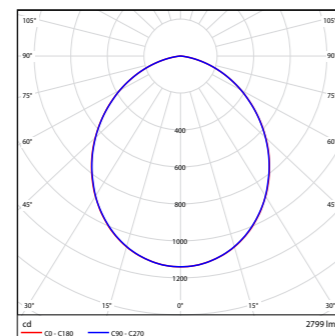


Benefits

- Up to 127lm/W
- 4", 6" and 8" versions
- IP44 ingress protection level for front
- Up to 2800lm luminous flux
- Easy installation with fast connections



6 inch - 18W 4000K



6 inch - 22W 4000K

Diffuser Downlight IP44



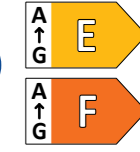
50 000h/
L70/B50



80+
CRI



-20°C -
+40°C



Product Description

Diffuser Downlight IP44 - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
93119563	12	1140	3000	95	Ø185x63	0,25	-
93119562	12	1260	3000	105	Ø185x63	0,25	-
93109216	18	1700	3000	94	Ø185x63	0,25	-
93109217	18	1850	4000	103	Ø185x63	0,25	-
93109218	18	1850	6000	103	Ø185x63	0,25	-
93109220	25	2500	3000	100	Ø230x63	0,38	-
93109221	25	2800	4000	112	Ø230x63	0,38	-
93109222	25	2800	6000	112	Ø230x63	0,38	-

Diffuser Downlight IP44 - Static driver (Gen2) *

93120914	10	1100	3000	110	Ø132x63	0,19	F
93120915	10	1150	4000	115	Ø132x63	0,19	F
93120946	10	1150	6000	115	Ø132x63	0,19	F
93120947	12	1300	3000	108	Ø185x63	0,25	E
93120948	12	1400	4000	117	Ø185x63	0,25	E
93120949	12	1400	6000	117	Ø185x63	0,25	E
93120950	18	2000	3000	111	Ø185x63	0,25	E
93120951	18	2100	4000	117	Ø185x63	0,25	E
93120952	18	2100	6000	117	Ø185x63	0,25	E
93120953	22	2700	3000	123	Ø230x63	0,38	E
93120954	22	2800	4000	127	Ø230x63	0,38	E
93120955	22	2800	6000	127	Ø230x63	0,38	E

Accessories

Diffuser DLR accessory ring 6inch	93116146	-	-	-	-	-	-
Diffuser DLR accessory ring 8inch	93116147	-	-	-	-	-	-

Gen2 range is available from October 2021.



LED INDOOR SOLUTION

Downlighters



General lighting / Residential



Retail



Hospitality



Office

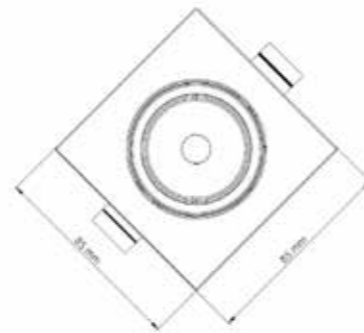
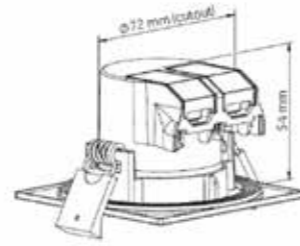
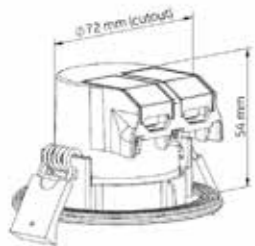
Recessed Spotlight 5W

The Tungram Recessed Spotlight G1 5W range has a functional and minimalistic design with fixed and adjustable versions. These LED Spotlights are ideal for small areas to make your ceilings seem higher, or when you are looking for directional lighting. Never have the installations easier and quicker with these products. The Recessed Spotlight G1 5W range offers all the benefits of LED lighting to our customers - fresh light quality, reduced energy consumption, and less maintenance.

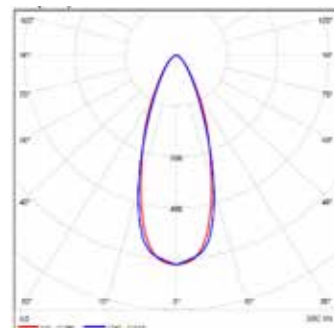


Benefits

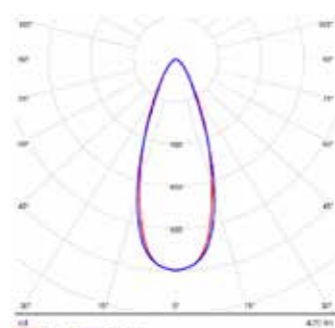
- Ideal replacement for Halogen spotlights
- High luminous efficacy
- 75% energy saving compared to 35W Halogen MR16
- Tilting head to adjust light beam where needed +/-13°
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs



Type	Shape	Fix / Adjustable	Size	Outer size (mm)	Height (mm)	Cut-out hole (mm)	Weight (kg) with driver
xxxWRAxxx	Round	Adjustable	Ø85*54 mm	Ø85mm	54mm	72mm	0.117
xxxWRFxxx	Round	Fix	Ø85*54 mm	Ø85mm	54mm	72mm	0.110
xxxWSAxxx	Square	Adjustable	85*85*54 mm	85*85mm	54mm	72mm	0.126
xxxWSFxxx	Square	Fix	85*85*54 mm	85*85mm	54mm	72mm	0.118



WRA/WSA IP65 5W 830 Static



WRA/WSA IP65 5W 840 Static

Recessed Spotlight 5W



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Recessed Spotlight G1 5W - Static driver								
LED Spotlight G1 TU WRA IP20 5W 830 S	93100364	5	380	3000	20	76	Ø85x54	0,117
LED Spotlight G1 TU WRA IP20 5W 840 S	93100526	5	420	4000	20	84	Ø85x54	0,117
LED Spotlight G1 TU WRF IP65 5W 830 S	93100528	5	380	3000	65	76	Ø85x54	0,11
LED Spotlight G1 TU WRF IP65 5W 840 S	93100530	5	420	4000	65	84	Ø85x54	0,11
LED Spotlight G1 TU WSA IP20 5W 830 S	93100532	5	380	3000	20	76	85x85x54	0,126
LED Spotlight G1 TU WSA IP20 5W 840 S	93100534	5	420	4000	20	84	85x85x54	0,126
LED Spotlight G1 TU WSF IP65 5W 830 S	93100536	5	380	3000	65	76	85x85x54	0,118
LED Spotlight G1 TU WSF IP65 5W 840 S	93100538	5	420	4000	65	84	85x85x54	0,118

Only available until stock lasts.



LED INDOOR SOLUTION

Downlighters



General lighting / Residential



Retail



Hospitality

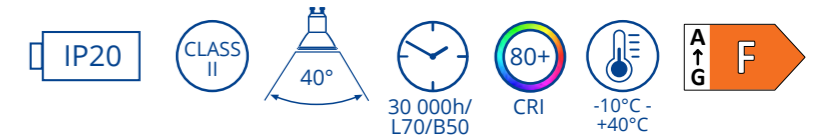


Office

Recessed Spotlight 6W

The Tungsram Recessed Spotlight G1 6W range is ideal for small areas or when you are looking for directional lighting. These LED fixtures are designed to offer a quick replacement option for standard halogen spots.

Recessed Spotlight 6W

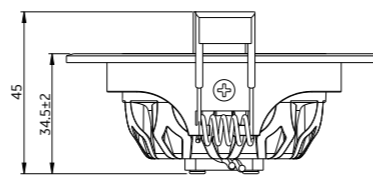
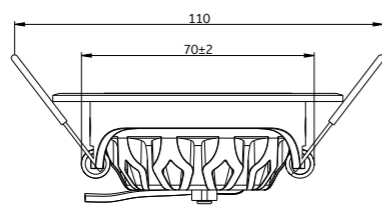
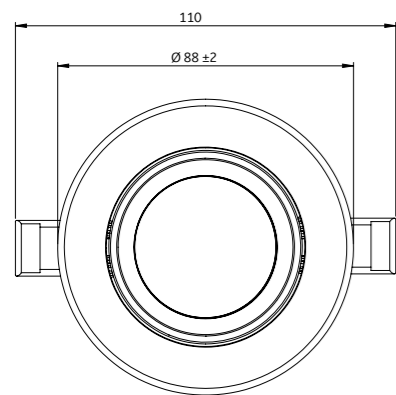


Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Beam angle (°)
Recessed Spotlight G1 6W - Static driver								
LED Spotlight G1 TU WRA IP20 6W 830 S	93107544	6	550	3000	90	Ø88x34.5	0,17	40
LED Spotlight G1 TU WRA IP20 6W 840 S	93107545	6	550	4000	90	Ø88x34.5	0,17	40
LED Spotlight G1 TU WRA IP20 6W 865 S	93107546	6	550	6500	90	Ø88x34.5	0,17	40

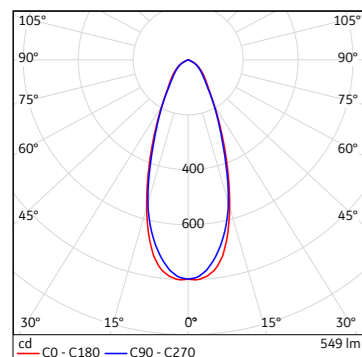


Benefits

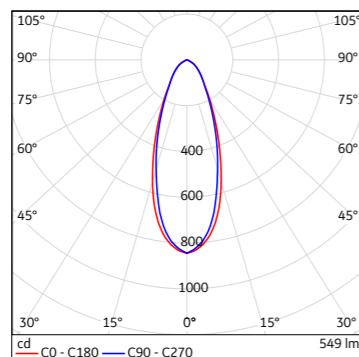
- Ideal replacement for Halogen spotlights
- 88% energy saving compared to 50W Halogen MR16
- Tilting head to adjust light beam where needed
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Colour rendering index: CRI 80+



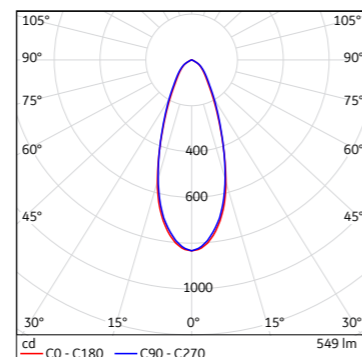
Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (kg) (with driver)	Weight (kg) (without driver)
Ø88.*34.5	88 +/- 2	34.5 +/- 2	70 +/- 2	0,17	0,13



6W 3000K



6W 4000K



6W 6500K



LED INDOOR SOLUTION

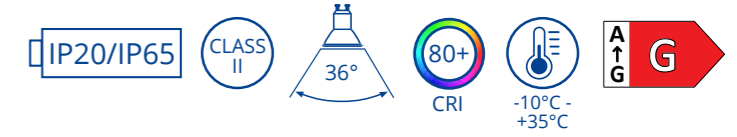
Downlighters



Fireproof Downlight

Tungsram introduces a new range of Fireproof Downlight. The fit of our Fireproof Downlight is almost flush with the ceiling, making the downlight look more aesthetically-pleasing, whilst we offer three different color of bezels, making the luminaire more discreet in your interior surface. Special fire-rated downlights have a rating up to IP65, making them both water and dust resistant. This range offers all the benefits of LED lighting to the customers - fresh light quality, longer service lifetime, reduced energy consumption, and less maintenance.

Fireproof Downlight

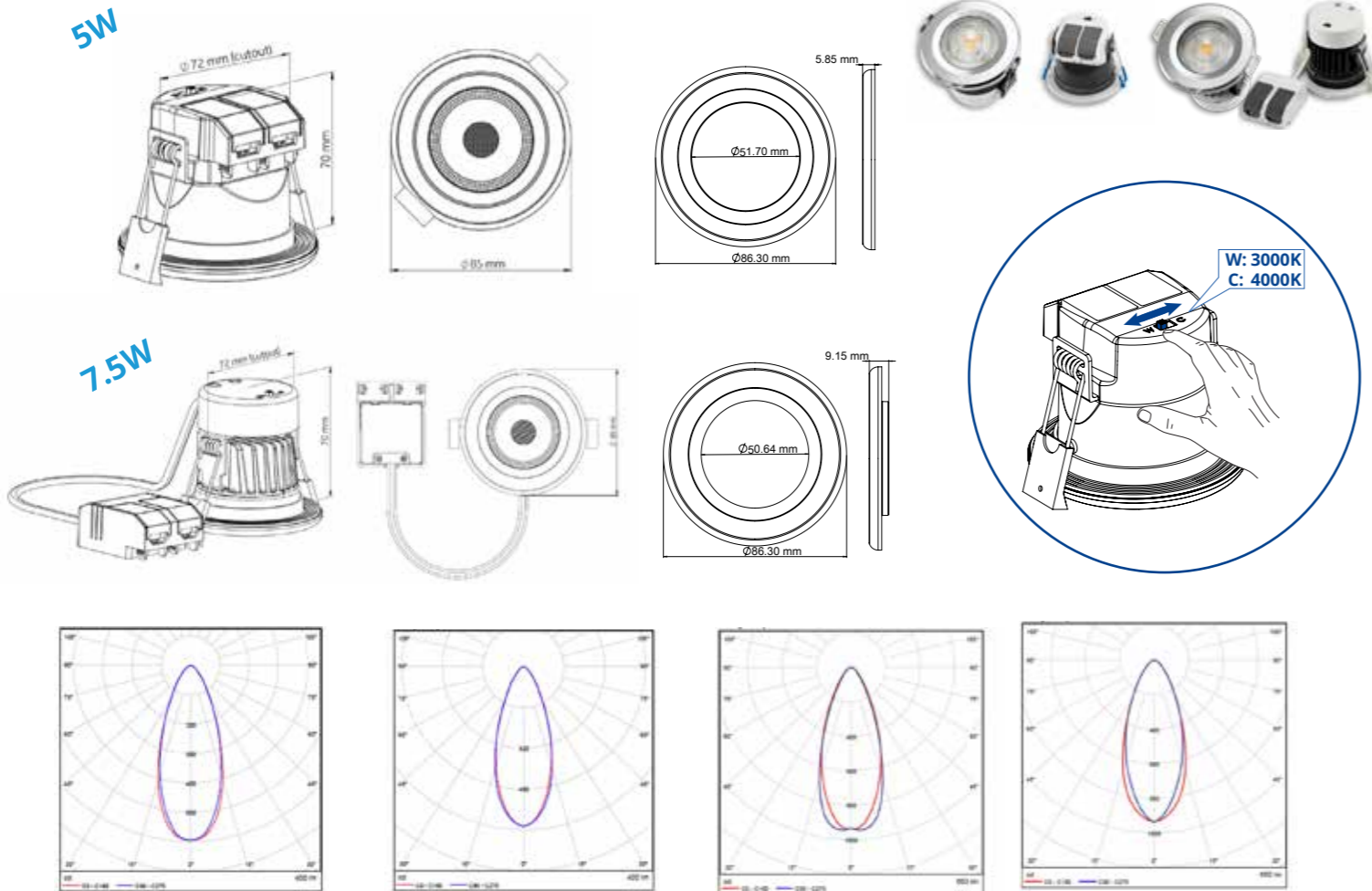


Benefits

- Up to 80% energy saving compared to Halogen solutions
- Ideal replacement for Halogen spotlights
- High luminous efficacy up to 85 lm/w
- Tilting head to adjust light beam where needed +/- 13°
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Fireproof Downlight - Triac driver								
Fireproof Downlight G1 TU IP65 5W F W	93108712	5	400	3000	65	80	Ø85x70	0.176
Fireproof Downlight G1 TU IP20 5W R W	93108714	5	400	&	20	80	Ø85x70	0.176
Fireproof Downlight G1 TU IP65 7.5W F W *	93108736	7.5	650	4000	65	86	Ø85x80	0.296
Fireproof Downlight Accessories								
Bezel for Fireproof DLR IP20 Chrome 10PC	93113204							
Bezel for Fireproof DLR IP20 Nickel 10PC	93113205							
Bezel for Fireproof DLR IP65 Chrome 10PC	93113206							
Bezel for Fireproof DLR IP65 Nickel 10PC	93113207							

* Available until stock lasts



LED INDOOR SOLUTION

Tracklights



Residential



Museums / Galleries



Education



Offices / Banks



Retail



Hospitality

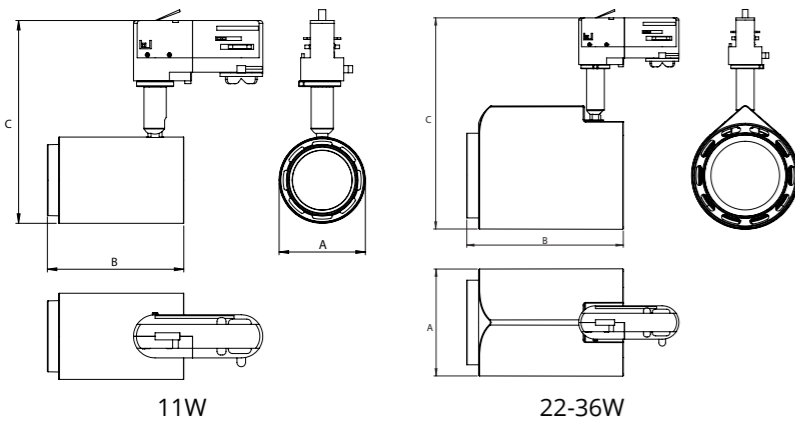
Trackspot LUX

Precise accent lighting designed for retail applications, art galleries, and museums. The Lux range track spot has a unique patented design, self-cleaning lens and sleek appearance making it an attractive proposition for any project. Over 50% energy saving compared to Ceramic Metal Halide thanks to the high efficacy up to 109lm/W. This CR90 option with three-step MacAdam ellipses offers high-quality lighting for high-end applications. The wide range of accessories and interchangeable lens options makes this a flexible and highly attractive option.



Benefits

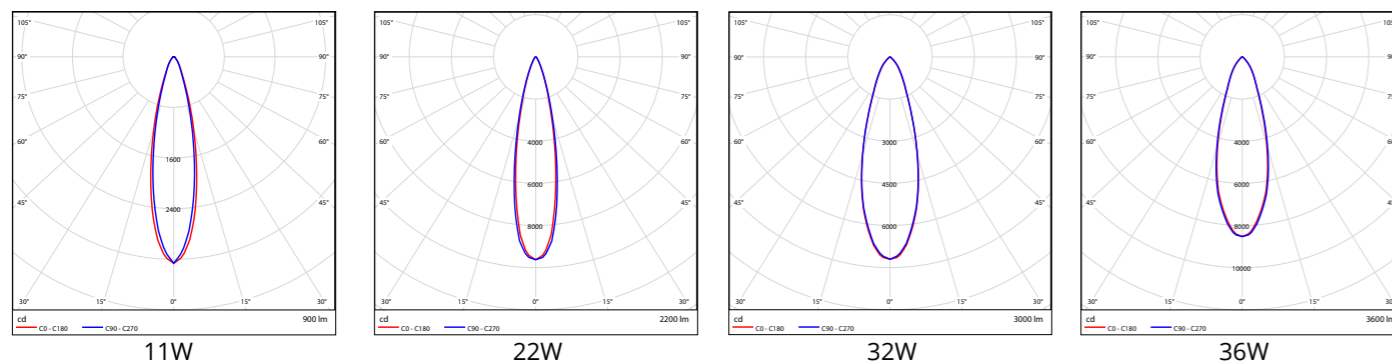
- Die casting aluminum housing
- Precise light distribution
- Macadam 3 SDCM
- Up to 110lm/W efficacy
- Passive cooling system without fans
- Anti-Glare lens optic
- Water-drop design with Self-Cleaning Function



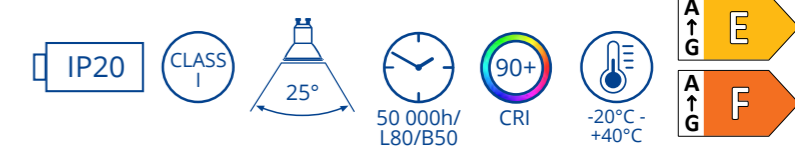
Wattage	A / Head diameter (mm)	B / Length (mm)	C / Height (mm)	Weight (kg)
11W	60	95	143	0.370
22W	85	108	175.5	0.700
32W	96	140	182	1.090
36W	96	140	182	1.090



25° BEAM ANGLE



Trackspot LUX



Product Description

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
Trackspot LUX - Static driver								
LED Track Spot LUX 930 11W S 25D WT	93113166	11	850	3000	77	60x95x143	0.37	F
LED Track Spot LUX 930 11W S 25D BK	93113167	11	850	3000	77	60x95x143	0.37	F
LED Track Spot LUX 940 11W S 25D WT	93113168	11	900	4000	82	60x95x143	0.37	F
LED Track Spot LUX 940 11W S 25D BK	93113169	11	900	4000	82	60x95x143	0.37	F
LED Track Spot LUX 930 22W S 25D WT	93113170	22	2200	3000	100	85x108x175	0.7	F
LED Track Spot LUX 930 22W S 25D BK	93113171	22	2200	3000	100	85x108x175	0.7	F
LED Track Spot LUX 940 22W S 25D WT	93113172	22	2400	4000	109	85x108x175	0.7	E
LED Track Spot LUX 940 22W S 25D BK	93113173	22	2400	4000	109	85x108x175	0.7	E
LED Track Spot LUX 930 32W S 25D WT	93113174	32	3000	3000	94	96x141x182	1.09	F
LED Track Spot LUX 930 32W S 25D BK	93113175	32	3000	3000	94	96x141x182	1.09	F
LED Track Spot LUX 940 32W S 25D WT	93113176	32	3100	4000	97	96x141x182	1.09	F
LED Track Spot LUX 940 32W S 25D BK	93113177	32	3100	4000	97	96x141x182	1.09	F
LED Track Spot LUX 930 36W S 25D WT	93115001	36	3600	3000	100	96x141x182	1.09	F
LED Track Spot LUX 930 36W S 25D BK	93115002	36	3600	3000	100	96x141x182	1.09	F
LED Track Spot LUX 940 36W S 25D WT	93115003	36	3900	4000	108	96x141x182	1.09	E
LED Track Spot LUX 940 36W S 25D BK	93115004	36	3900	4000	108	96x141x182	1.09	E

Trackspot LUX - DALI driver

LED Track Spot LUX 930 22W D 25D WT	93117889	22	2100	3000	95	100x108x184	0.7	F
LED Track Spot LUX 930 22W D 25D BK	93117890	22	2100	3000	95	100x108x184	0.7	F
LED Track Spot LUX 940 22W D 25D WT	93117891	22	2350	4000	107	100x108x184	0.7	E
LED Track Spot LUX 940 22W D 25D BK	93117892	22	2350	4000	107	100x108x184	0.7	E
LED Track Spot LUX 930 36W D 25D WT	93117893	36	3350	3000	93	111x141x199	1.09	F
LED Track Spot LUX 930 36W D 25D BK	93117894	36	3350	3000	93	111x141x199	1.09	F
LED Track Spot LUX 940 36W D 25D WT	93117895	36	3650	4000	101	111x141x199	1.09	E
LED Track Spot LUX 940 36W D 25D BK	93117896	36	3650	4000	101	111x141x199	1.09	E

Trackspot LUX Accessories

LED Track Lens ADV/LUX M 20D 10PC	93114888
LED Track Lens ADV/LUX M 25D 10PC	93114889
LED Track Lens ADV/LUX M 40D 10PC	93114890
LED Track Lens ADV/LUX M 55D 10PC	93114891
LED Track Lens LUX L 25D 10PC	93114896
LED Track Lens LUX L 40D 10PC	93114897
LED Track Lens LUX L 55D 10PC	93114898
LED Track LUX Honeycomb M WT 10PC	93114902
LED Track LUX Honeycomb M BK 10PC	93114800
LED Track LUX Honeycomb L WT 10PC	93114903
LED Track LUX Honeycomb L BK 10PC	93114801
LED Track LUX Barndoor M WT 10PC	93114904
LED Track LUX Barndoor M BK 10PC	93114802
LED Track LUX Barndoor L WT 10PC	93114905
LED Track LUX Barndoor L BK 10PC	93114803

LED INDOOR SOLUTION

Tracklights



Residential



Museums / Galleries



Education



Offices / Banks



Retail



Hospitality

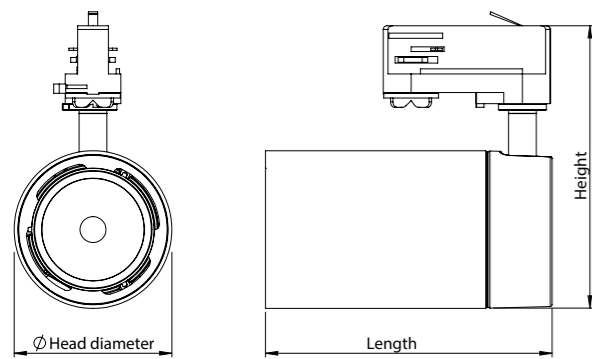
Trackspot ADV

The Tungsham LED Track Light ADV range provides the perfect replacement for Halogen and Ceramic Metal Halide track lights. Offering up to 105lm/W energy efficiency and an advanced optic design, this solution tenders a desired quality of light with great savings and long-life benefits. Available in a modular design with removable and interchangeable lighting components that facilitate easy access to customization; combined with easy replacement, this product offers a diverse track lighting solution for your needs.



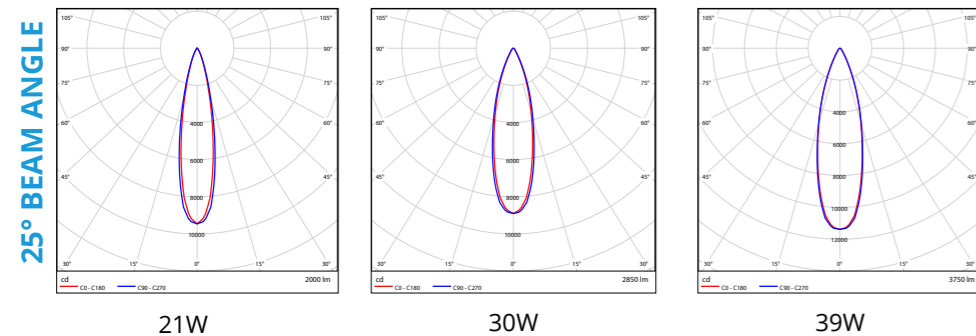
Benefits

- Macadam 3 SDCM
- Modular Design
- Passive cooling system without fans
- Anti-Glare lens optic
- Black and White finishing
- Available up to 39W and up to 4000lm with 3 power levels
- Available with CRI 90+ and 2 CCTs: 3000 / 4000K



Wattage	Head diameter (mm)	Length (mm)	Height (mm)	Weight (kg)
21W	85	154.5	150	0.735
30W	100	173.3	165	1.300
39W	100	189	165	1.300

Up to 4000lm



21W

30W

39W



Trackspot ADV



LED Indoor

Product Description

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
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Trackspot ADV - Static driver

LED Track Spot ADV 930 21W S 25D WT	93113018	21	2000	3000	95	85x154x150	0,735	F
LED Track Spot ADV 930 21W S 25D BK	93113019	21	2000	3000	95	85x154x150	0,735	F
LED Track Spot ADV 940 21W S 25D WT	93113020	21	2200	4000	105	85x154x150	0,735	E
LED Track Spot ADV 940 21W S 25D BK	93113021	21	2200	4000	105	85x154x150	0,735	E
LED Track Spot ADV 930 30W S 25D WT	93113022	30	2850	3000	95	100x173x165	1,300	F
LED Track Spot ADV 930 30W S 25D BK	93113023	30	2850	3000	95	100x173x165	1,300	F
LED Track Spot ADV 940 30W S 25D WT	93113024	30	2900	4000	97	100x173x165	1,300	F
LED Track Spot ADV 940 30W S 25D BK	93113025	30	2900	4000	97	100x173x165	1,300	F
LED Track Spot ADV 930 39W S 25D WT	93114997	39	3750	3000	96	100x189x165	1,300	F
LED Track Spot ADV 930 39W S 25D BK	93114998	39	3750	3000	96	100x189x165	1,300	F
LED Track Spot ADV 940 39W S 25D WT	93114999	39	4000	4000	102	100x189x165	1,300	E
LED Track Spot ADV 940 39W S 25D BK	93115000	39	4000	4000	102	100x189x165	1,300	E

Trackspot ADV Accessories

LED Track Lens ADV/LUX M 20D 10PC	93114888
LED Track Lens ADV/LUX M 25D 10PC	93114889
LED Track Lens ADV/LUX M 40D 10PC	93114890
LED Track Lens ADV/LUX M 55D 10PC	93114891
LED Track Lens ADV L 20D 10PC	93114892
LED Track Lens ADV L 25D 10PC	93114893
LED Track Lens ADV L 40D 10PC	93114894
LED Track Lens ADV L 55D 10PC	93114895
LED Track ADV Trackmount pendant M WT	93114899
LED Track ADV Trackmount pendant M BK	93114797
LED Track ADV Surface mount spot M WT	93114900
LED Track ADV Surface mount spot M BK	93114798
LED Track ADV Surface mount pendant M WT	93114901
LED Track ADV Surface mount pendant M BK	93114799



LED INDOOR SOLUTION

Tracklights

POWERGEAR Three Phase Track Rails

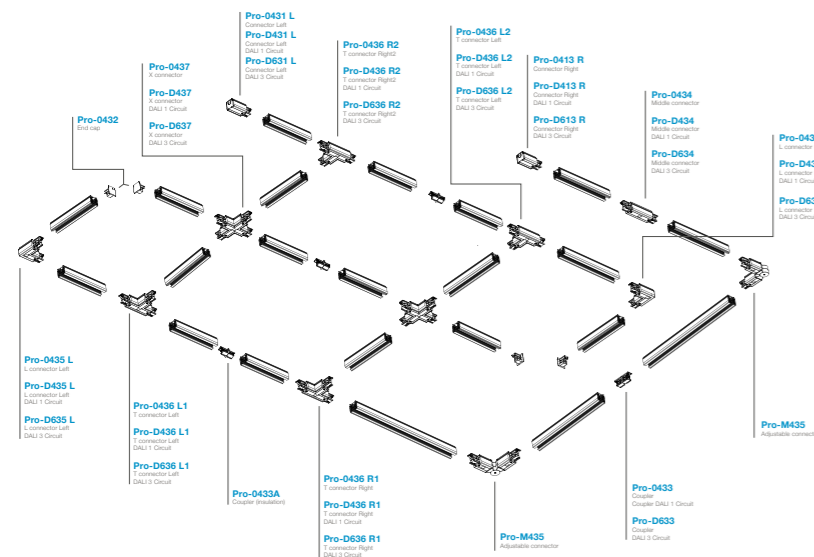
Powergear three phase track system for surface or suspended mounting. Standard lengths are 1, 2 and 3 meters long and the range includes various connecting and mounting accessories. The track system has a modular designed and is compatible with most track spot fixtures. We offer complete solution for static and for DALI systems.



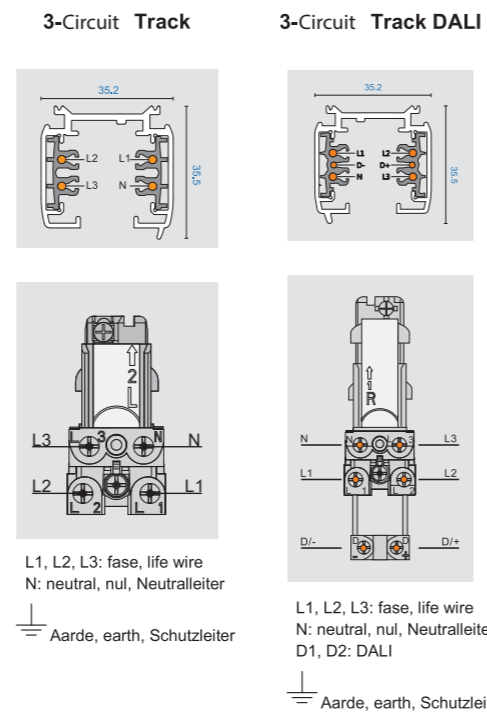
Benefits

- Versatile lighting track
- 3 phase standard structure
- Fast connection
- Easy and seamless cutting to any size
- Wide range of accessories for any situation or location
- Static and DALI control

This range includes a wide range of track rails and matching accessories



Product structure



For detailed information on the track rail range or for a specific solution, please contact our customer service organization.

POWERGEAR Three Phase Track Rails

Product Code	Product Description	Powergear Code	Powergear Description	Control	Product specification	Finish	Dim. (mm)	Weight (kg)	Pack Qty.
Static system in black colour. All the products are also available in white									
93118994	TRACK 3PH ST SM 1M B	PRO-0410	1M 3-CIRCUITS TRACK	Static	1 meter static track	Black	35x35x1000	0.84	6
93118995	TRACK 3PH ST SM 2M B	PRO-0420	2M 3-CIRCUITS TRACK	Static	2 meter static track	Black	35x35x2000	1.68	6
93118996	TRACK 3PH ST SM 3M B	PRO-0430	3M 3-CIRCUITS TRACK	Static	3 meter static track	Black	35x35x3000	2.52	6
93118997	TRACK 3PH ST SM CON L B	PRO-0431L	Connector Left	Static	Connector Left	Black	35x35x98	0.063	12
93118998	TRACK 3PH ST SM CON R B	PRO-0431R	Connector Right	Static	Connector Right	Black	35x35x98	0.063	12
93118999	TRACK 3PH ST SM CONIN B	PRO-0434	Middle Connector	Static	Middle Connector	Black	35x35x166	0.113	10
93119000	TRACK 3PH ST SM CONADJ B	PRO-M435	Adjustable Connector	Static	Adjustable Connector	Black	101x101x35	0.15	15
93119001	TRACK 3PH ST SM CONFLEX B	PRO-0439	Flexible connector	Static	Flexible connector	Black	35x35x249	0.17	14
93119002	TRACK 3PH ST SM COUPLER B	PRO-0433	Coupler	Static	Coupler	Black	22x20x68	0.022	10
93119003	TRACK 3PH ST SM CONT TL1L2 B	PRO-M436L	Twisted T connector L1->L2	Static	Twisted T connector L1->L2	Black	166x101x35	0.185	12
93119004	TRACK 3PH ST SM CONT TR1R2 B	PRO-M436R	Twisted T connector R1->R2	Static	Twisted T connector R1->R2	Black	166x101x35	0.185	12
93119005	TRACK 3PH ST SM CONT L1 B	PRO-0436L1	T Connector Left1	Static	T Connector Left1	Black	161x101x35	0.112	12
93119006	TRACK 3PH ST SM CONT L2 B	PRO-0436L2	T Connector Left2	Static	T Connector Left2	Black	161x101x35	0.112	12
93119007	TRACK 3PH ST SM CONT R1 B	PRO-0436R1	T Connector Right1	Static	T Connector Right1	Black	161x101x35	0.112	12
93119008	TRACK 3PH ST SM CONT R2 B	PRO-0436R2	T Connector Right2	Static	T Connector Right2	Black	161x101x35	0.112	12
93119009	TRACK 3PH ST SM CONL TLR B	PRO-M438	Twisted L connector (L and R)	Static	Twisted L connector (L and R)	Black	101x101x35	0.13	18
93119010	TRACK 3PH ST SM CONL L B	PRO-0435L	L Connector Left	Static	L Connector Left	Black	101x101x35	0.112	18
93119011	TRACK 3PH ST SM CONL R B	PRO-0435R	L Connector Right	Static	L Connector Right	Black	101x101x35	0.112	18
93119012	TRACK 3PH ST SM CONX B	PRO-0437	X Connector	Static	X Connector	Black	166x166x35	0.23	5
93119013	TRACK 3PH ST SM ENDCUP B	PRO-0432	End cap	Static	End cap	Black	35x35x31	0.009	15

DALI system in white colour. All the products are also available in black									
93118979	TRACK 3PH D SM 1M W	PRO-0610	1M 3-CIRCUITS DALI TRACK	DALI	1 meter DALI track	White	35x35x1000	0.92	6
93118980	TRACK 3PH D SM 2M W	PRO-0620	2M 3-CIRCUITS DALI TRACK	DALI	2 meter DALI track	White	35x35x2000	1.85	6
93118981	TRACK 3PH D SM 3M W	PRO-0630	3M 3-CIRCUITS DALI TRACK	DALI	3 meter DALI track	White	35x35x3000	2.8	6
93118982	TRACK 3PH D SM CON L W	PRO-D631L	Connector Left DALI 3 Circuit	DALI	Connector Left DALI 3 Circuit	White	35x35x98	0.08	10
93118983	TRACK 3PH D SM CON R W	PRO-D631R	Connector Right DALI 3 Circuit	DALI	Connector Right DALI 3 Circuit	White	35x35x98	0.08	10
93118984	TRACK 3PH D SM CONIN W	PRO-D634	Middle connector DALI 3 Circuit	DALI	Middle connector DALI 3 Circuit	White	35x35x166	0.13	10
93118985	TRACK 3PH D SM CONFLEX W	PRO-D639	Flexible connector DALI 3 Circuit	DALI	Flexible connector DALI 3 Circuit	White	35x35x249	0.181	12
93118986	TRACK 3PH D SM COUPLER W	PRO-D633	Coupler DALI 3 Circuit	DALI	Coupler DALI 3 Circuit	White	22x20x68	0.043	10
93118987	TRACK 1PH D SM CONT L1 W	PRO-D636L1	T Connector Left1 DALI 3 Circuit	DALI	T Connector Left1 DALI 3 Circuit	White	119x203x35	0.192	9
93118988	TRACK 1PH D SM CONT L2 W	PRO-D636L2	T Connector Left2 DALI 3 Circuit	DALI	T Connector Left2 DALI 3 Circuit	White	119x203x35	0.192	9
93118989	TRACK 1PH D SM CONT R1 W	PRO-D636R1	T Connector Right1 DALI 3 Circuit	DALI	T Connector Right1 DALI 3 Circuit	White	119x203x35	0.192	9
93118990	TRACK 1PH D SM CONT R2 W	PRO-D636R2	T Connector Right2 DALI 3 Circuit	DALI	T Connector Right2 DALI 3 Circuit	White	119x203x35	0.192	9
93118991	TRACK 3PH D SM CONL L W	PRO-D635L	L Connector Left DALI 3 Circuit	DALI	L Connector Left DALI 3 Circuit	White	119x119x35	0.125	12
93118992	TRACK 3PH D SM CONL R W	PRO-D635R	L Connector Right DALI 3 Circuit	DALI	L Connector Right DALI 3 Circuit	White	119x119x35	0.125	12
93118993	TRACK 3PH D SM CONX W	PRO-D637	X Connector DALI 3 Circuit	DALI	X Connector DALI 3 Circuit	White	203x203x35	0.26	2

A wide range of additional accessories is available on our website.

LED INDOOR SOLUTION

Linears



Retail / Hotel Restaurant



Commercial lighting / Office / Showrooms

TOROFI

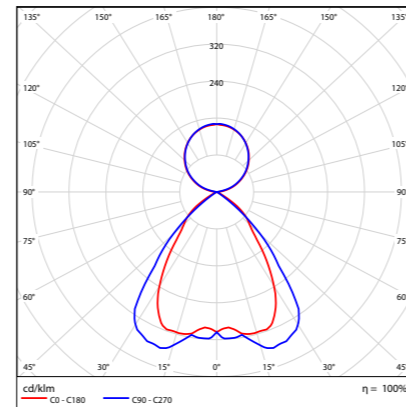
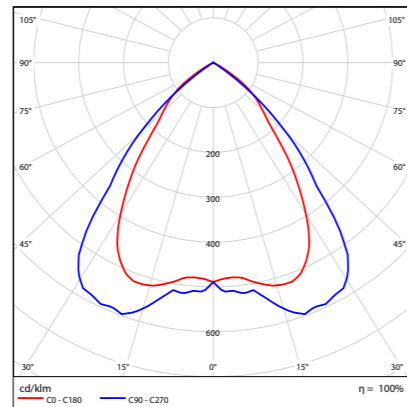
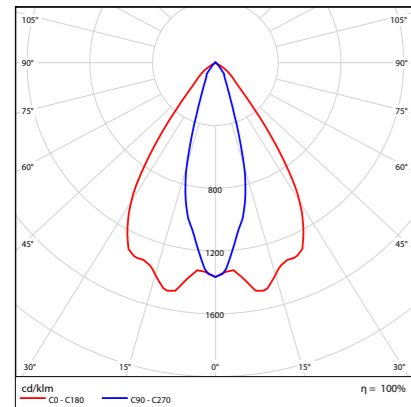
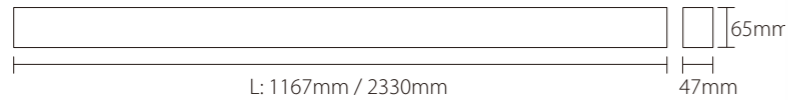
Tungsram Torofi range is ideal for commercial or office lighting due to its high visual comfort and flexible mounting options. It's modern design is highly esthetical and can upgrade the appearance of the space it has been installed.



Benefits

- Up to 128 lm/W efficiency
- Direct and direct-indirect versions
- Very low UGR versions - UGR 14
- Seamless continuous design
- Surface mount, pendant and track mount options

Dimensions (mm)



TOROFI



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimension (mm)	UGR	Beam angle (°)	Weight (kg)	Colour	Light distribution	EEC
Torofi - Static												
Torofi P 29W 1200 830 S 085 B 10	93115825	29	2700	3000	93	47x1167x6	18	85°x85°	1.9	Black	Direct	F
Torofi P 29W 1200 830 S 085 Wh 10	93115357	29	2700	3000	93	47x1167x6	18	85°x85°	3.4	White	Direct	F
Torofi P 29W 1200 830 S 085 B 73	93115826	29	3050	3000	105	47x1167x6	14	85°x85°	1.9	Black	Direct-Indirect	F
Torofi P 29W 1200 830 S 085 WH 73	93118948	29	3050	3000	105	47x1167x6	14	85°x85°	1.9	White	Direct-Indirect	F
Torofi P 29W 1200 830 S 030 B 10	93115827	29	2600	3000	90	47x1167x6	18	30°x70°	1.9	Black	Direct	F
Torofi P 29W 1200 840 S 085 B 10	93115828	29	2900	4000	100	47x1167x6	18	85°x85°	1.9	Black	Direct	F
Torofi P 29W 1200 840 S 085 Wh 10	93117107	29	2900	4000	100	47x1167x6	18	85°x85°	3.4	White	Direct	F
Torofi P 29W 1200 840 S 085 B 73	93115829	29	3250	4000	112	47x1167x6	14	85°x85°	1.9	Black	Direct-Indirect	E
Torofi P 29W 1200 840 S 085 WH 73	93118950	29	3250	4000	112	47x1167x6	14	85°x85°	1.9	White	Direct-Indirect	E
Torofi P 29W 1200 840 S 030 B 10	93115830	29	2700	4000	93	47x1167x6	19	30°x70°	1.9	Black	Direct	F
Torofi P 45W 1200 830 S 085 B 10	93115831	45	4650	3000	103	47x1167x6	20	85°x85°	1.9	Black	Direct	F
Torofi P 45W 1200 830 S 085 WH 10	93118951	45	4650	3000	103	47x1167x6	20	85°x85°	1.9	White	Direct	F
Torofi P 45W 1200 830 S 085 B 73	93115832	45	5350	3000	119	47x1167x6	15	85°x85°	1.9	Black	Direct-Indirect	E
Torofi P 45W 1200 830 S 085 WH 73	93118952	45	5350	3000	119	47x1167x6	15	85°x85°	1.9	White	Direct-Indirect	E
Torofi P 45W 1200 830 S 030 B 10	93115833	45	4450	3000	99	47x1167x6	20	30°x70°	1.9	Black	Direct	F
Torofi P 45W 1200 840 S 085 B 10	93115834	45	5000	4000	111	47x1167x6	21	85°x85°	1.9	Black	Direct	E
Torofi P 45W 1200 840 S 085 WH 10	93118953	45	5000	4000	111	47x1167x6	21	85°x85°	1.9	White	Direct	E
Torofi P 45W 1200 840 S 085 B 73	93115835	45	5750	4000	128	47x1167x6	16	85°x85°	1.9	Black	Direct-Indirect	E
Torofi P 45W 1200 840 S 085 WH 73	93118954	45	5750	4000	128	47x1167x6	16	85°x85°	1.9	White	Direct-Indirect	E
Torofi P 45W 1200 840 S 030 B 10	93115836	45	4600	4000	102	47x1167x6	20	30°x70°	1.9	Black	Direct	F
Torofi P 45W 2400 830 S 085 Wh 10	93115358	45	4650	3000	103	47x2330x68	18	85°x85°	3.4	White	Direct	F
Torofi P 45W 2400 840 S 085 Wh 10	93117108	45	5000	4000	111	47x2330x68	18	85°x85°	3.4	White	Direct	E
Torofi - DALI												
Torofi P 29W 1200 830 D 085 Wh 10	93118205	29	2700	3000	93	1167 x 47 x 65	18	85°x85°	1.9	White	Direct	F
Torofi P 29W 1200 830 D 085 B 10	93118206	29	2700	3000	93	1167 x 47 x 65	18	85°x85°	1.9	Black	Direct	F
Torofi P 29W 1200 830 D 085 Wh 73	93118207	29	3050	3000	105	1167 x 47 x 65	14	85°x85°	1.9	White	Direct-Indirect	F
Torofi P 29W 1200 830 D 085 B 73	93118208	29	3050	3000	105	1167 x 47 x 65	14	85°x85°	1.9	Black	Direct-Indirect	F
Torofi P 29W 1200 840 D 085 Wh 10	93118209	29	2900	4000	100	1167 x 47 x 65	18	85°x85°	1.9	White	Direct	F
Torofi P 29W 1200 840 D 085 B 10	93118210	29	2900	4000	100	1167 x 47 x 65	18	85°x85°	1.9	Black	Direct	F
Torofi P 29W 1200 840 D 085 Wh 73	93118211	29	3250	4000	112	1167 x 47 x 65	14	85°x85°	1.9	White	Direct-Indirect	E
Torofi P 29W 1200 840 D 085 B 73	93118212	29	3250	4000	112	1167 x 47 x 65	14	85°x85°	1.9	Black	Direct-Indirect	E
Torofi P 45W 1200 830 D 085 Wh 10	93118213	45	4650	3000	103	1167 x 47 x 65	20	85°x85°	1.9	White	Direct	F
Torofi P 45W 1200 830 D 085 B 10	93118214	45	4650	3000	103	1167 x 47 x 65	20	85°x85°	1.9	Black	Direct	F
Torofi P 45W 1200 830 D 085 Wh 73	93118215	45	5350	3000	119	1167 x 47 x 65	15	85°x85°	1.9	White	Direct-Indirect	E
Torofi P 45W 1200 830 D 085 B 73	93118216	45	5350	3000	119	1167 x 47 x 65	15	85°x85°	1.9	Black	Direct-Indirect	E
Torofi P 45W 1200 840 D 085 Wh 10	93118217	45	5000	4000	111	1167 x 47 x 65	21	85°x85°	1.9	White	Direct	E
Torofi P 45W 1200 840 D 085 B 10	93118218	45	5000	4000	111	1167 x 47 x 65	21	85°x85°	1.9	Black	Direct	E
Torofi P 45W 2400 840 D 085 Wh 10	93118221	45	5000	4000	111	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct	E
Torofi P 45W 2400 840 D 085 B 10	93118222	45	5000	4000	111	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct	E
Torofi P 45W 1200 840 D 085 Wh 73	93118219	45	5750	4000	128	1167 x 47 x 65	16	85°x85°	3.2	White	Direct-Indirect	E
Torofi P 45W 1200 840 D 085 B 73	93118220	45	5750	4000	128	1167 x 47 x 65	16	85°x85°	3.2	Black	Direct-Indirect	E
Torofi P 45W 2400 840 D 085 Wh 73	93118223	45	5750	4000	128	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect	E
Torofi P 45W 2400 840 D 085 B 73	93118224	45	5750	4000	128	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect	E
Torofi P 90W 2400 830 D 085 Wh 10	93118225	90	8800	3000	98	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct	F
Torofi P 90W 2400 830 D 085 B 10	93118226	90	8800	3000	98	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct	F
Torofi P 90W 2400 830 D 085 Wh 73	93118227	90	10100	3000	112	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect	E
Torofi P 90W 2400 830 D 085 B 73	93118228	90	10100	3000	112	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect	E
Torofi P 90W 2400 840 D 085 Wh 10	93118229	90	9500	4000	105	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct	F
Torofi P 90W 2400 840 D 085 B 10	93118230	90	9500	4000	105	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct	F
Torofi P 90W 2400 840 D 085 Wh 73	93118231	90	10900	4000	121	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect	E
Torofi P 90W 2400 840 D 085 B 73	93118232	90	10900	4000	121	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect	E

LED INDOOR SOLUTION

Linears

TOROFI

Product Description

Product Code

Accessories for different mounting options

Torofi I connector	93115359
Torofi L connector White	93115360
Torofi T connector White	93115361
Torofi X connector White	93115362
Torofi Endcap White	93115845
Torofi Track adapter with Cable White	93115843
Torofi L Connector Black	93115837
Torofi T Connector Black	93115838
Torofi X Connector Black	93115839
Torofi Pendant Canopy Kit Black	93115840
Torofi Track adapter with Cable Black	93115844
Torofi Endcap Black	93115846
Torofi Continuous kit Static 1200mm	93115365
Torofi Continuous kit Static 2400mm	93115366
Torofi Continuous Kit DALI 1200mm	93115841
Torofi Continuous Kit DALI 2400mm	93115842
Torofi Pendant Canopy kit White	93115363
Torofi Pendant kit	93115364
Torofi Surface mount kit 3PCS	93115367
Torofi P Empty Profile 1200mm B	93118455
Torofi P Empty Profile 1200mm Wh	93118454
Torofi Track adapter without Cable White	93120501
Torofi Track adapter without Cable Black	93120502

Connectors



Mounting types



Pendant



Surface



Track Mounted



LED INDOOR SOLUTION

Linears



Retail / Hotel
Restaurant



Commercial
lighting /
Office /
Showrooms

TOROFI Recessed

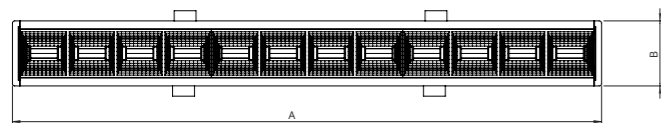
Tungsum Torofi range is ideal for commercial or office lighting due to its high visual comfort and flexible mounting options. It's modern design is highly esthetical and can upgrade the appearance of the space it has been installed.



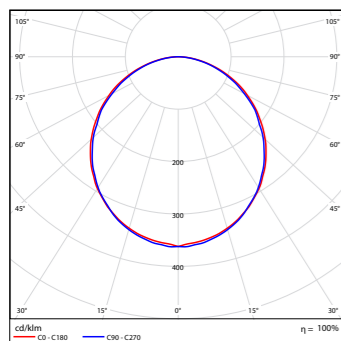
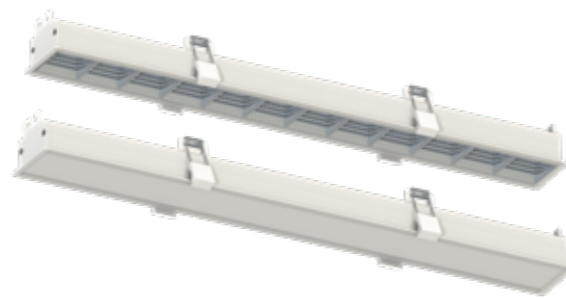
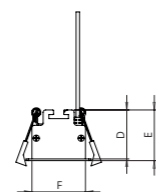
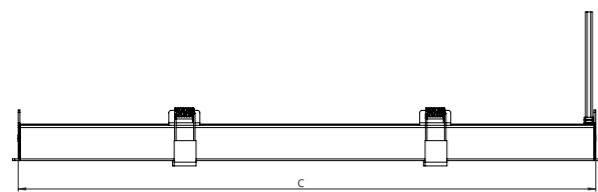
Benefits

- Length - 511mm and 1177mm
- Driver options - Static, DALI
- Recessed Installation
- Reflector - Standard Specular
- Seamless continuous connection
- Low UGR options are available in the range
- Up to 127lm/W system efficacy
- Helvar driver

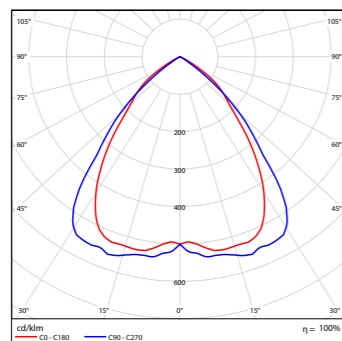
Dimensions (mm)



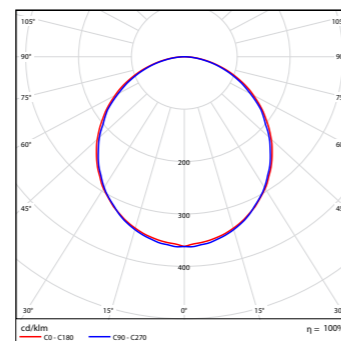
Type	A	B	C	D	E	F
511 mm version	511	56.5	501	44	47	47
1177 mm version	1177	56.5	1167	44	47	47



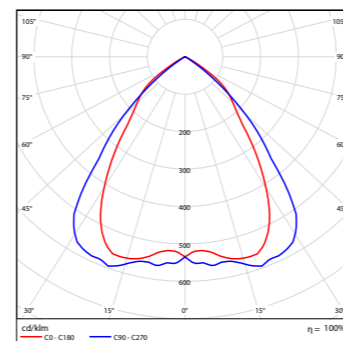
28W 110°



28W 85°



36W 110°



36W 85°

TOROFI Recessed



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimension (mm)	UGR	Beam angle (°)	SDCM	EEC
Torofi Recessed - Static										
Torofi R 28W 500 830 S 110	93118651	28	3250	3000	116	511	30	110°	≤3	E
Torofi R 28W 500 830 S 085	93118652	28	3000	3000	107	511	18	85°x85°	≤3	E
Torofi R 28W 500 840 S 110	93118659	28	3550	4000	127	511	30	110°	≤3	E
Torofi R 28W 500 840 S 085	93118660	28	3250	4000	116	511	18	85°x85°	≤3	E
Torofi R 36W1200 830 S 110	93118653	36	3900	3000	108	1177	28	110°	≤3	E
Torofi R 36W1200 830 S 085	93118654	36	3600	3000	100	1177	15	85°x85°	≤3	F
Torofi R 36W1200 840 S 110	93118661	36	4150	4000	115	1177	28	110°	≤3	E
Torofi R 36W1200 840 S 085	93118662	36	3800	4000	106	1177	15	85°x85°	≤3	E
Torofi Recessed - DALI										
Torofi R 28W 500 830 D 110	93118655	28	3250	3000	116	511	30	110°	≤3	E
Torofi R 28W 500 830 D 085	93118656	28	3000	3000	107	511	18	85°x85°	≤3	E
Torofi R 28W 500 840 D 110	93118663	28	3550	4000	127	511	30	110°	≤3	E
Torofi R 28W 500 840 D 085	93118664	28	3250	4000	116	511	18	85°x85°	≤3	E
Torofi R 36W1200 830 D 110	93118657	36	3900	3000	108	1177	28	110°	≤3	E
Torofi R 36W1200 830 D 085	93118658	36	3600	3000	100	1177	15	85°x85°	≤3	F
Torofi R 36W1200 840 D 110	93118665	36	4150	4000	115	1177	28	110°	≤3	E
Torofi R 36W1200 840 D 085	93118666	36	3800	4000	106	1177	15	85°x85°	≤3	E



LED INDOOR SOLUTION

Linears



Linear Indirect

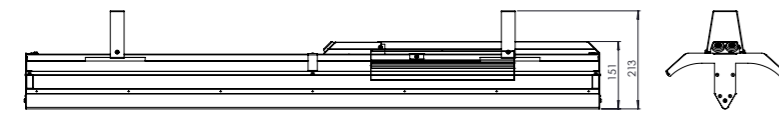


The new Tungsram Linear Indirect range is designed to deliver efficient lighting for commercial and education applications. These efficient lighting fixtures have a long life and deliver a remarkable efficacy (up to 135lm/W), allowing for lower maintenance and operating costs.

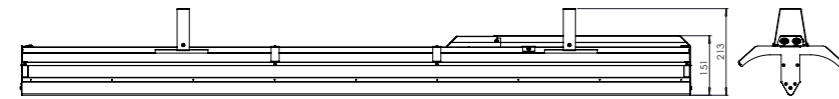
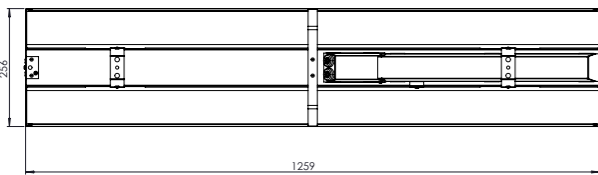


Benefits

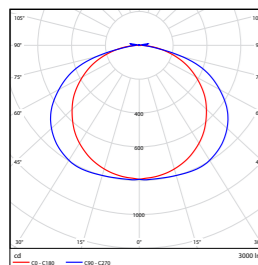
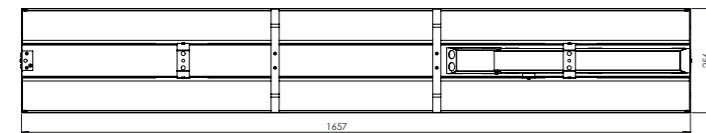
- Visually appealing illumination with CRI 80+
- High-luminous efficiency with minimal glare (<UGR19) due to indirect reflector solution
- Provides strong horizontal and vertical illuminance
- Available in two lengths: 1250 and 1650 mm
- Optional DALI or static control
- Energy efficient replacement for traditional LFL solutions
- Assembled with Nichia LED chips and Tridonic static or BAG DALI driver



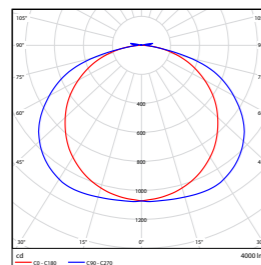
WATTAGE: 22W, 30W, 38W
WEIGHT: 4.8KG



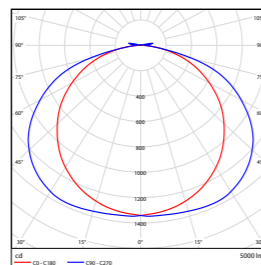
WATTAGE: 40W, 50W
WEIGHT: 5.9KG



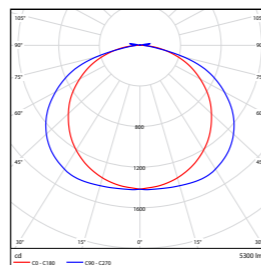
22W - 3000lm



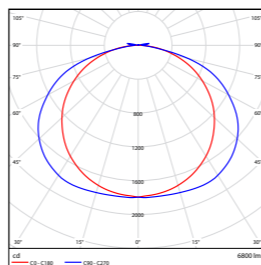
30W - 4000lm



38W - 5000lm



40W - 5300lm



50W - 6800lm

Linear Indirect



Product Description

Linear Indirect - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	UGR	Dimensions (mm)	Weight (kg)
TU LINEAR INDIRECT 30W 12 830 S11 ST G1B	30	4000	3000	133	<19	1259x256x151	4,80
TU LINEAR INDIRECT 30W 12 840 S11 ST G1B	30	4000	4000	133	<19	1259x256x151	4,80
TU LINEAR INDIRECT 38W 12 830 S11 ST G1B	38	5000	3000	132	<19	1259x256x151	4,80
TU LINEAR INDIRECT 38W 12 840 S11 ST G1B	38	5000	4000	132	<19	1259x256x151	4,80
TU LINEAR INDIRECT 40W 16 830 S11 ST G1B	40	5300	3000	133	<19	1657x256x151	5,90
TU LINEAR INDIRECT 40W 16 840 S11 ST G1B	40	5300	4000	133	<19	1657x256x151	5,90
TU LINEAR INDIRECT 50W 16 830 S11 ST G1B	50	6800	3000	136	<19	1657x256x151	5,90
TU LINEAR INDIRECT 50W 16 840 S11 ST G1B	50	6800	4000	136	<19	1657x256x151	5,90





Car park /
Garage



Warehouse/
Distribution center/
Factory

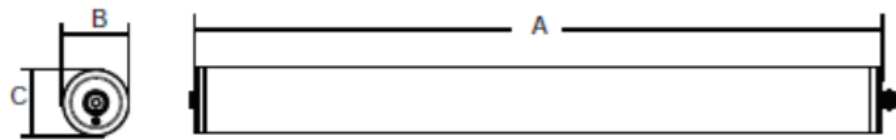
Tubular IP67/69K

The high performance IP67/ IP69K weatherproof Tungstram Tubular luminaire range has many advantages. Matching an outstanding design and performance, the product offers an impressive efficacy up to 150 lm/W. The LED Tubular range carries high protection ratings (IK10 & IP67/IP69K) to make this a durable solution for dusty or damp environments such as car parks, railway stations, airports, warehouses, etc, and the thin tubular shape allows easy architectural integration. With high efficiency and pleasing aesthetics, this product ensures a sustainable investment due to low energy consumption and reduced maintenance costs.

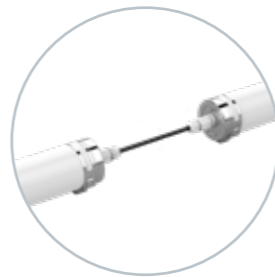


Benefits

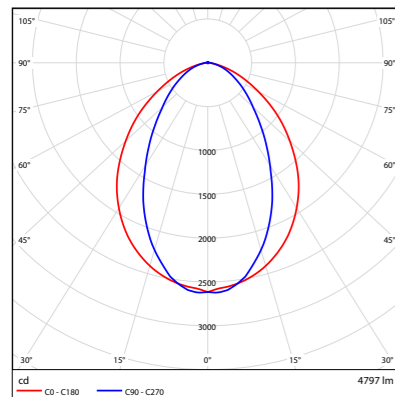
- Evenly distributed light
- High energy savings of up to 60% compared to conventional LFL luminaires
- Easy installation as mounting brackets can be positioned freely on the luminaire
- Suitable to use in dusty and damp locations thanks to high IP rating



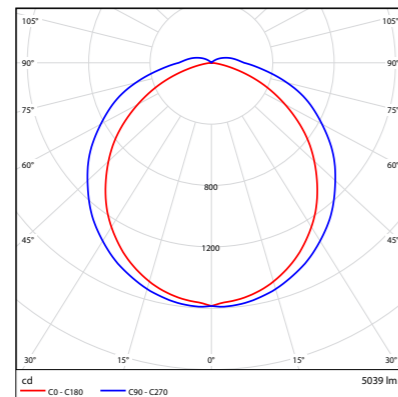
LINKABLE



Description	Wattage	A (mm)	B (mm)	C (mm)	Weight (kg) - PC/PMMA	Weight (kg) - Glass
LED Tubular TU-x-LS36-xxxx	36W	1200	70	70	1.70	3.62
LED Tubular TU-x-LS48-xxxx	48W	1500	70	70	2.00	4.32



80°



120°

Metal bracket



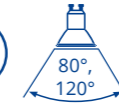
Anti-theft bracket



Suspension cable



Tubular IP67/69K

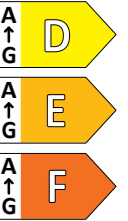


up to
117 000h/
L70/B50



-30°C -
+50°C

(High Temperature)
/-20 + 40 op temp
(Static&DALI&Anti
corrosion)/-20 +35 op
temp (Food&Farm)



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
Tubular IP67/69K - Static driver								
LED Tubular TU-S-LS36-1200C40-80°	93113213	36	4800	4000	133	Ø70x1200	1,7	F
LED Tubular TU-S-LS36-1200F40-120°	93113214	36	5220	4000	145	Ø70x1200	1,7	D
LED Tubular TU-S-LS48-1500C40-80°	93113216	48	6400	4000	133	Ø70x1500	2	F
LED Tubular TU-S-LS48-1500F40-120°	93113217	48	6960	4000	145	Ø70x1500	2	D
LED Tubular TU-S-SM36-1200F40-120°	93113224 *	36	5040	4000	140	Ø70x1200	1,7	D
LED Tubular TU-S-SM48-1500F40-120°	93113225 *	48	6720	4000	140	Ø70x1500	1,7	D
Tubular IP67/69K - High temperature								
LED Tubular TU-HT-SS19-1200F30-120	93119684	19	2700	3000	140	Ø70x1200	1,7	D
LED Tubular TU-HT-LS19-1200F30-120	93119683	19	2700	3000	140	Ø70x1200	1,7	D
LED Tubular TU-HT-SS28-1200F30-120	93119682	28	3900	3000	140	Ø70x1200	1,7	D
LED Tubular TU-HT-LS28-1200F30-120	93119681	28	3900	3000	140	Ø70x1200	1,7	D
LED Tubular TU-HT-SS36-1500F30-120	93119680	36	5000	3000	140	Ø70x1500	2	D
LED Tubular TU-HT-LS36-1500F30-120	93119679	36	5000	3000	140	Ø70x1500	2	D
Tubular IP67/69K - DALI driver								
LED Tubular TU-S-LD36-1200C40-80°	93113219	36	4350	4000	121	Ø70x1200	1,7	F
LED Tubular TU-S-LD36-1200F40-120°	93113220	36	4680	4000	130	Ø70x1200	1,7	E
LED Tubular TU-S-LD45-1500C40-80°	93113222	45	5850	4000	130	Ø70x1500	2	F
LED Tubular TU-S-LD45-1500F40-120°	93113223	45	6300	4000	140	Ø70x1500	2	D
LED Tubular TU-S-LD45-1500F30-120°	93115396	45	5850	3000	130	Ø70x1500	2	E
Tubular IP67/69K Food - Static driver								
LED Tubular TU-F-LS36-1200F40-120°	93113208	36	5220	4000	145	Ø70x1200	1,7	D
LED Tubular TU-F-LS48-1500F40-120°	93113209	48	6950	4000	145	Ø70x1500	2	D
LED Tubular TU-F-LS36-1200F30-120°	93113210	36	4800	3000	133	Ø70x1200	1,7	E
LED Tubular TU-F-LS48-1500F30-120°	93113211	48	6400	3000	133	Ø70x1500	2	E
Tubular IP67/69K Farm, ammonium resistant - Static driver								
LED Tubular TU-M-LS36-1200F40-120°	93113226	36	5400	4000	150	Ø70x1200	1,7	D
LED Tubular TU-M-LS48-1500F40-120°	93113227	48	7200	4000	150	Ø70x1500	2	D
Tubular IP67/69K Anti-corrosion - Static driver								
LED Tubular TU-G-LS36-1200C40-120°	93113228	36	5040	4000	140	Ø70x1200	3,62	D
LED Tubular TU-G-LS48-1500C40-120°	93113229	48	6720	4000	140	Ø70x1500	4,32	D
Tubular range - accessories								
LED Tubular Suspension Cable 2pcs 1.5M	93116543							
LED Tubular Anti theft Clip 2pcs	93116544							
Tubular Remote control	93116528							

* With Microwave Motion and daylight sensor





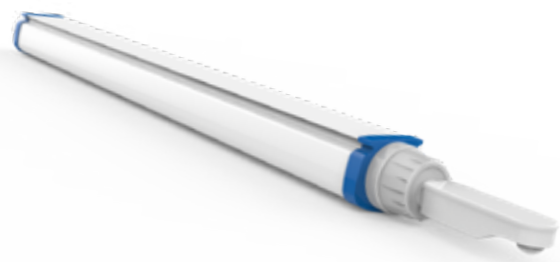
Garages



Warehouses, factories

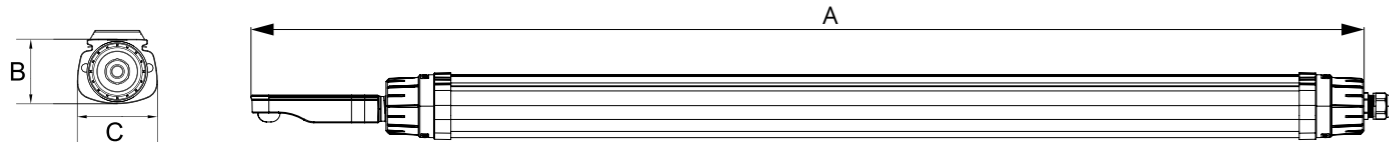
Programmable Mariner with PIR

The new premium mariner fixtures from Tungsram are featuring passive infrared sensors. On top of the significant cost saving thanks to LED technology, the sensors help to reduce further the energy costs by switching on the lamps only when they needed to be on. The products are ideal for warehouses, factories and garages. Beyond the 4 lighting scenarios prepared in the fixtures, the users have the freedom to adjust any of the working parameters, for example the detection range, the waiting time and the delay time, the stand-by dimming level and the light sensor input value.

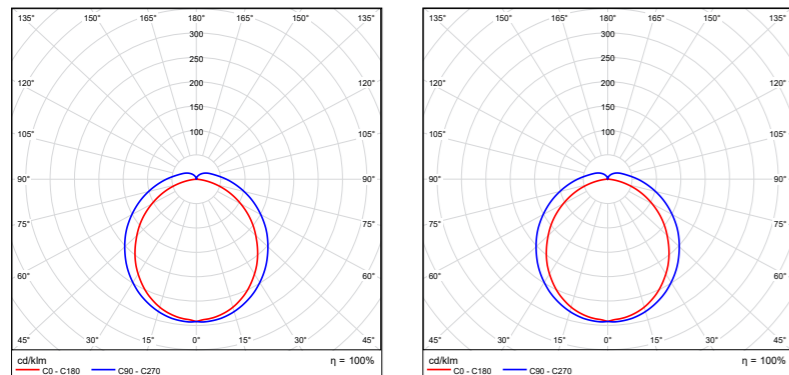


Benefits

- 50W and 63W
- 4000K, 6500K
- Up to 8800 lm
- Very high efficiency up to 140 lm/W
- CRI80+
- Beam angle – 120°
- IP65
- IK08
- Long life: 86.000 hours L80B10
- Installation height: from 2.8m to 6.5m
- Glow wire test 650 °C has been passed



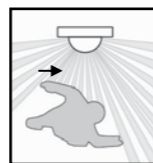
Product	Size A	Size B	Size C
Tung Mariner PR	1660	68	84



50W

63W

Walk across



Height	Range Diameter
6.5m	16m
2.8m	9m

Walk towards



Height	Range Diameter
6.5m	10m
2.8m	5m

Programmable Mariner with PIR



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Rated life L70 (h) @ 25°C	Weight (kg)	EEC
Waterproof Programmable mariner with PIR - Static driver									
TUNG Mariner PR G1 5 50W 840 S PIR	93118426	50	7000	4000	140	1660x84x68x	171000	1,90	D
TUNG Mariner PR G1 5 50W 865 S PIR	93118427	50	6700	6500	134	1660x84x68x	171000	1,90	E
TUNG Mariner PR G1 5 63W 840 S PIR	93118428	63	8800	4000	140	1660x84x68x	171000	1,90	D
TUNG Mariner PR G1 5 63W 865 S PIR	93118429	63	8500	6500	135	1660x84x68x	171000	1,90	E
Waterproof Programmable mariner with PIR - Accessories									
Tung Mariner Remote control	93118470								
Tung Mariner Suspension Cable	93118471								



Tool-Free Installation Design



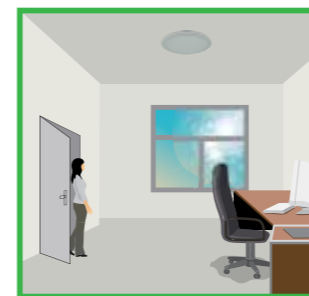
Dimmable 5-Pole Push-in Terminal Block



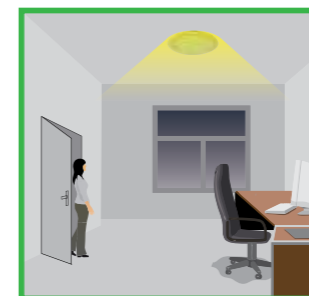
Ceiling Mounting Installation



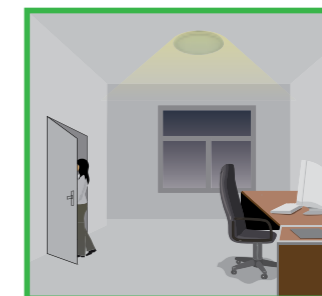
Suspension Installation



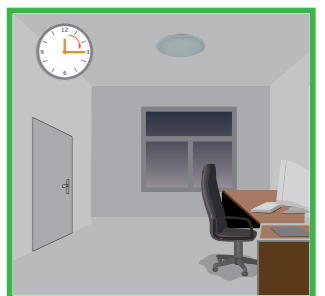
With sufficient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters the room. The lamp never switches off with presence, even if the natural light is sufficient.



People leave, light still dims to 0/ 10%/20%/30% (options) standby level after the hold time.



Light switches off automatically after the dimming time elapsed.

LED INDOOR SOLUTION

Mariners



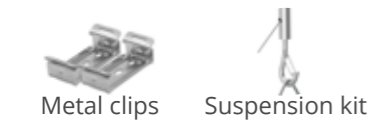
Mariner Integrated Premium

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential- and industrial environments. It is an energy-efficient, low-maintenance alternative to traditional fluorescent waterproof fixtures. The integrated mariner offers customers the best mix of value and performance. It has a compact size with high lumen output and is a completely integrable lighting solution for applications with high requirements for luminous intensity and resistance.

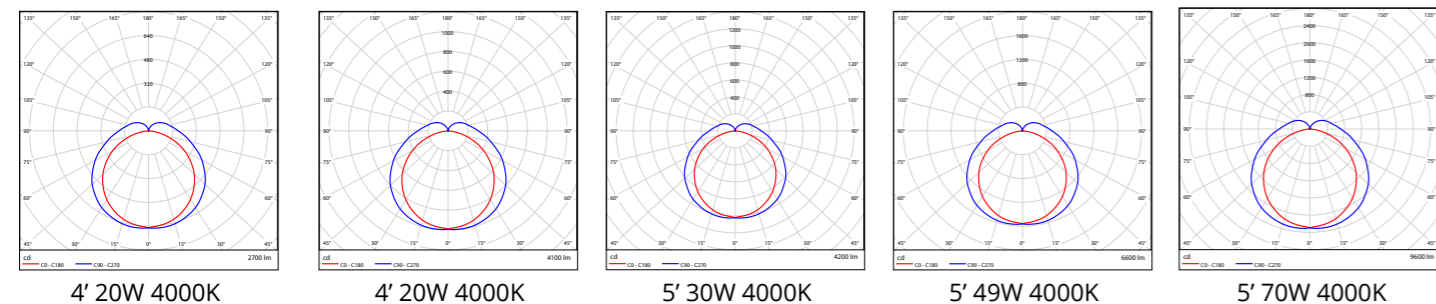
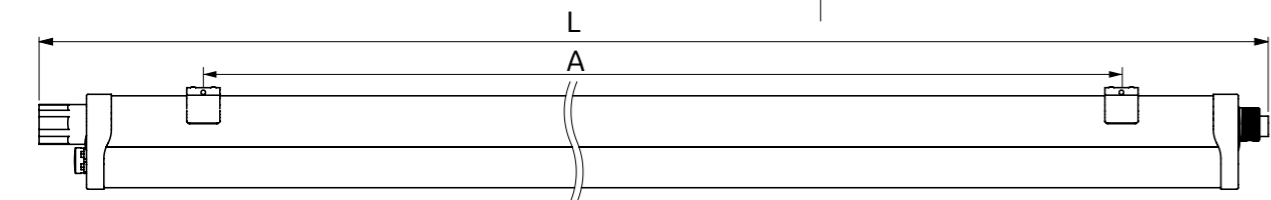
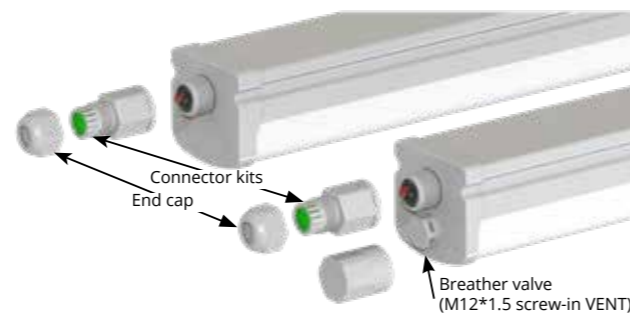


Benefits

- Energy savings of up to 70% (compared to luminaires that use fluorescent lamps)
- Convenient, continuous connection for both sizes of 1200mm and 1500mm, simple and easy installation
- High resistance against ambient air with humidity and high-particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector design



Type	L (mm)	W (mm)	H (mm)
LED Mariner PR G1 TU 4' xxx	1170	66	63
LED Mariner PR G1 TU 5' xxx	1470	66	63



Mariner Integrated Premium



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Additional feature	EEC
Mariner Integrated Premium - Static driver									
LED Mariner PR G1 TU 4' 20W 840 SST	93101662	20	2700	4000	135	66x1170x63	0.87	-	D
LED Mariner PR G1 TU 4' 20W 865 SST	93107528	20	2700	6500	135	66x1170x63	0.87	-	D
LED Mariner PR G1 TU 4' 30W 840 SST	93101663	30	4100	4000	137	66x1170x63	0.87	-	D
LED Mariner PR G1 TU 4' 30W 865 SST	93107529	30	4100	6500	137	66x1170x63	0.87	-	D
LED Mariner PR G1 TU 5' 30W 840 SST	93107530	30	4200	4000	140	66x1470x63	1.07	-	D
LED Mariner PR G1 TU 5' 30W 865 SST	93107531	30	4200	6500	140	66x1470x63	1.07	-	D
LED Mariner PR G1 TU 5' 49W 840 SST	93101668	49	6600	4000	135	66x1470x63	1.12	-	E
LED Mariner PR G1 TU 5' 49W 865 SST	93107532	49	6600	6500	135	66x1470x63	1.12	-	E
LED Mariner PR G1 TU 5' 70W 840 SST	93101687	70	9600	4000	137	66x1470x63	1.12	-	D
LED Mariner PR G1 TU 5' 70W 865 SST	93107568	70	9600	6500	137	66x1470x63	1.12	-	D
LED Mariner PR G1 TU 4' 34W 840 SEM	93108072	34	4100	4000	121	66x1197x63	1.35	3 hours emergency	D
LED Mariner PR G1 TU 4' 34W 865 SEM	93108073	34	4100	6500	121	66x1497x63	1.57		D
LED Mariner PR G1 TU 5' 52W 840 SEM	93108074	52	6600	4000	127	66x1497x63	1.6		E
LED Mariner PR G1 TU 5' 52W 865 SEM	93108075	52	6600	6500	127	66x1497x63	1.6	E	
Mariner Integrated Premium - DALI driver									
LED Mariner PR G1 TU 4' 30W 840 DST	93101691	30	3800	4000	127	66x1170x63	0.87	-	E
LED Mariner PR G1 TU 5' 49W 840 DST	93101696	49	6200	4000	127	66x1470x63	1.12	-	E
Mariner Integrated Premium Accessories									
Mariner Suspension Kit	93118307								
Metal clips for Integrated Mariner	93118308								
PIR Sensor	93118920								

PIR Sensor

Compatible with all waterproof fixtures with static driver



LED INDOOR SOLUTION

Mariners



Integrated Mariner Premium G2

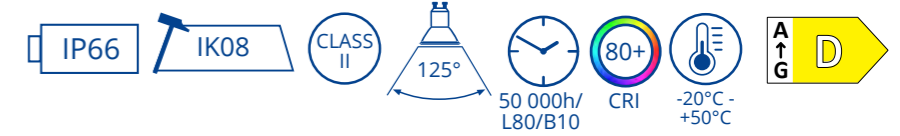
Tungsum Integrated Mariner Premium G2 is an excellent choice when looking for a high efficiency, long life solution for warehouse, factory or garage lighting. The range is suitable for most location when linear lighting is needed due to its high ingress protection (IP66) and high impact protection level (IK08).



Benefits

- Highly Efficient: up to 140lm/W
- Luminous flux: up to 7200lm
- CCT: 4000K and 6500K
- SDCM ≤ 6
- Lifetime: 50.000 hours @ L80B10
- IP66 and IK08 protection

Integrated Mariner Premium G2



Product Description	Product Code	Dimensions (mm)	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	Weight (kg)	Operating Temperature °C
Integrated Mariner Premium G2 - Static driver								
LED Mariner PR G2 TU 4' 17/33W 840 SST	93119302	1210	17.5/33W	2480/4620	140	4000	0,9	-20 to +50
LED Mariner PR G2 TU 4' 17/33W 865 SST	93119303	1210	17.5/33W	2480/4620	140	6500	0,9	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 840 SST	93119476	1510	33/49W	4620/6900	140	4000	1,1	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 865 SST	93119477	1510	33/49W	4620/6900	140	6500	1,1	-20 to +50
LED Mariner PR G2 TU 5' 49/69W 840 SST	93120972 *	1510	49/69W	7000/9800	140	4000	1,1	-20 to +50
LED Mariner PR G2 TU 5' 49/69W 865 SST	93120973 *	1510	49/69W	7000/9800	140	6500	1,1	-20 to +50
Integrated Mariner Premium G2 - DALI driver								
LED Mariner PR G2 TU 4' 33W 840 DST	93119480	1210	33.5W	4700	140	4000	0.9	-20 to +40
LED Mariner PR G2 TU 5' 51W 840 DST	93119481	1510	51W	7200	140	4000	1.1	-20 to +40
Integrated Mariner Premium G2 Accessory								
LED Mariner PR G2 suspension kit	93119482							

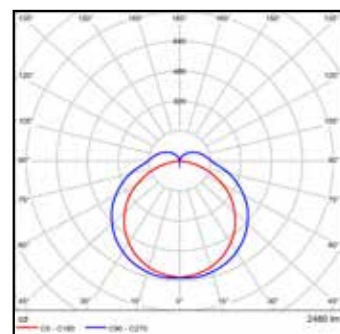
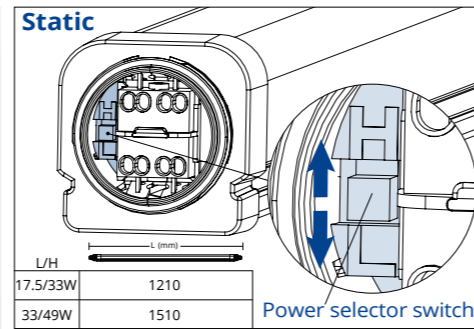
* Available from November



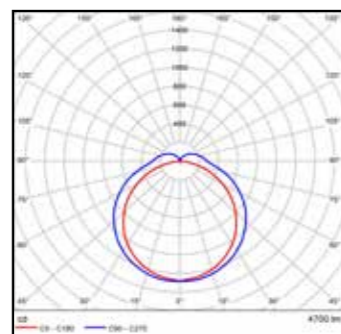
Dali connector



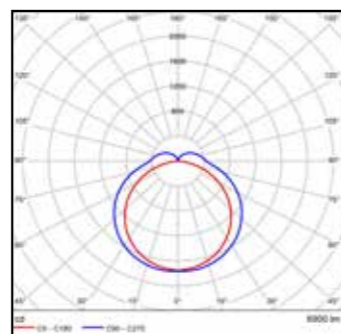
Static connector



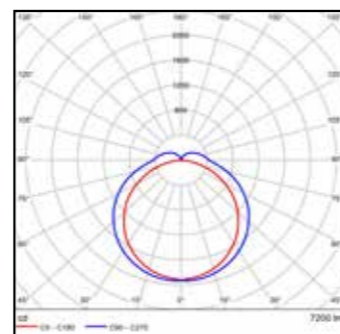
17,5W



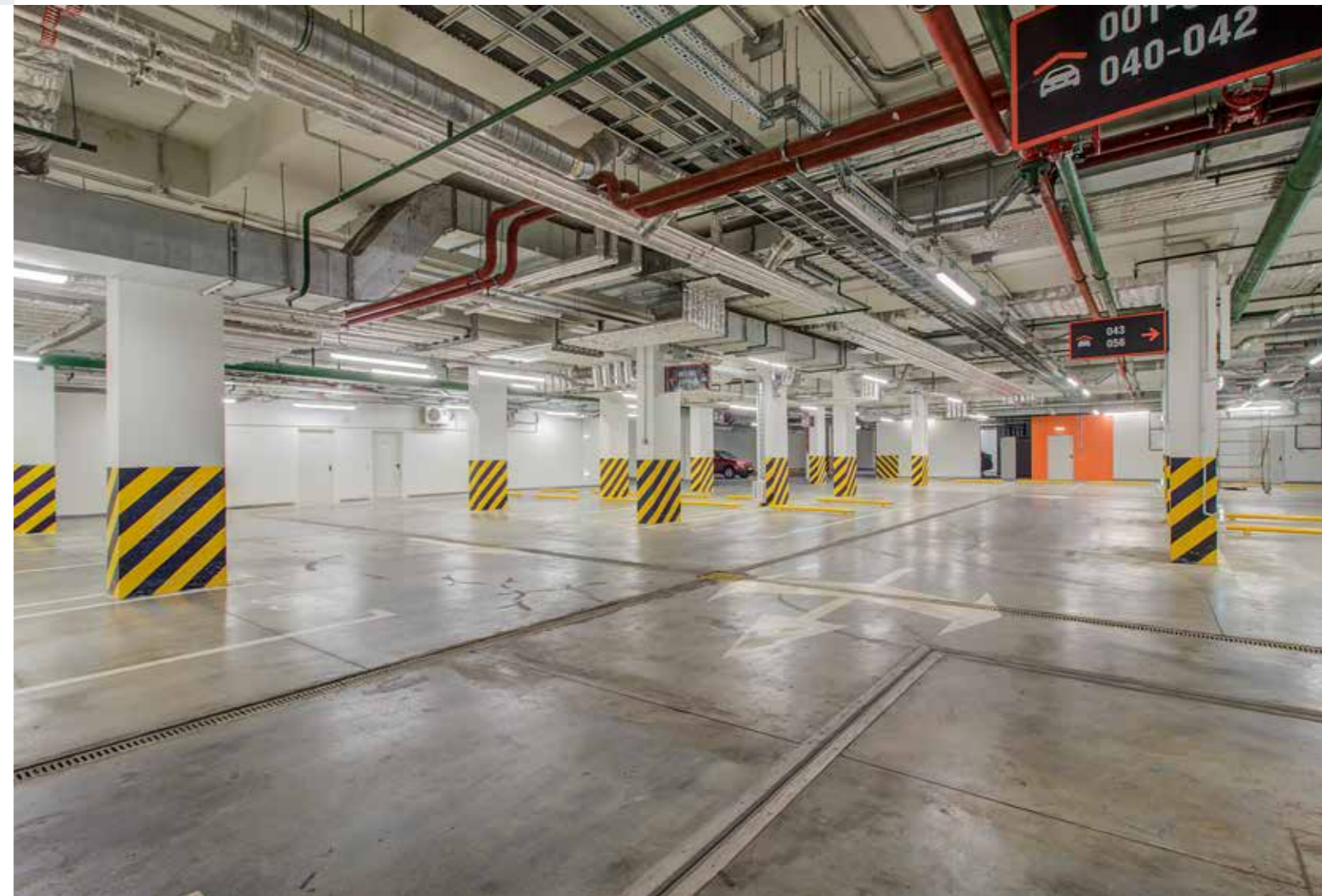
33W



49W



51W



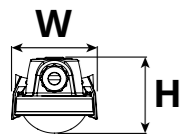
Mariner Clip G1

Tungram Mariner Clip combines a classical, traditional design with modern technology. This product is an ideal choice for warehouse, factory or garage lighting, where robust structure, easy and flexible installation, high luminous flux combined with high efficiency is required. The range is suitable for most location when linear lighting is needed, due to its high ingress protection (IP65) and high impact protection level (IK08).

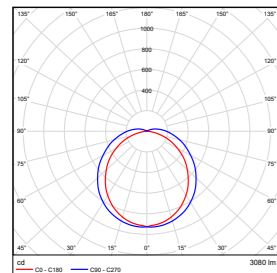
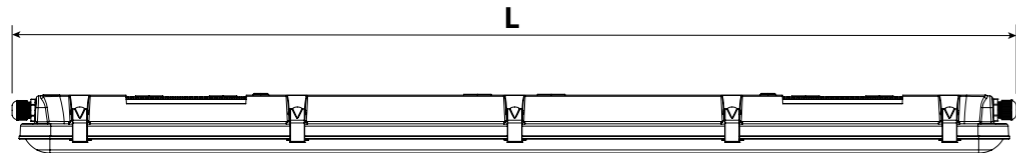


Benefits

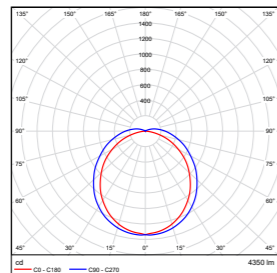
- Two sizes: 1207mm and 1507mm
- Control: Lifud DALI and Static drivers
- Highly Efficient: 140lm/W
- Luminous flux: up to 7000 lm
- CCT: 4000K
- SDCM ≤ 6
- Lifetime: 50.000 hours @ L80B10
- 5 - Year Warranty
- IP65 and IK08 protection
- Flicker free Driver
- Quick connector
- High quality Lumileds chips
- Grey body with semi-transparent diffuser and stainless steel
- Operating temperature from 20 °C up to 50 °C



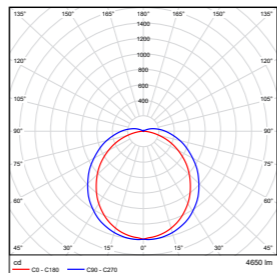
Type	L (mm)	W (mm)	H (mm)
4ft	1207	78	72
5ft	1507	78	72



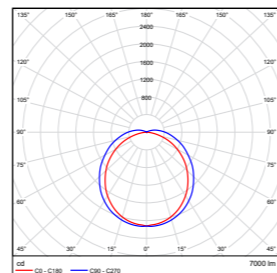
22W



31W



33W



50W

Mariner Clip G1

Product Description	Product Code	Dimensions (mm)	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	Weight (kg)	Operating Temperature °C	EEC
Mariner Clip G1 - static									
Tung Mariner CL G1 4' 22W 840 S	93119472	1230	22	3080	140	4000	1,4	-20 to +50	D
Tung Mariner CL G1 4' 33W 840 S	93119473	1230	33	4650	140	4000	1,4	-20 to +50	D
Tung Mariner CL G1 5' 31W 840 S	93119474	1530	31	4350	140	4000	1,7	-20 to +50	D
Tung Mariner CL G1 5' 50W 840 S	93119475	1530	50	7000	140	4000	1,7	-20 to +50	D
Mariner Clip G1 - DALI									
Tung Mariner CL G1 4' 21W 840 D	93119516	1230	21	2950	140	4000	1,4	-20 to +50	D
Tung Mariner CL G1 4' 32W 840 D	93119517	1230	32	4500	140	4000	1,4	-20 to +50	D
Tung Mariner CL G1 5' 30W 840 D	93119518	1530	30	4140	138	4000	1,7	-20 to +50	D
Tung Mariner CL G1 5' 51W 840 D	93119519	1530	51	6920	135	4000	1,7	-20 to +40	D
Mariner Clip G1 - Motion Sensor *									
Tung Mariner CL G1 4' 22W 840 MS	93119858	1230	22	2900	132	4000	1,5	-20 to +50	E
Tung Mariner CL G1 4' 33W 840 MS	93119859	1230	33	4400	133	4000	1,5	-20 to +50	D
Tung Mariner CL G1 5' 31W 840 MS	93119860	1530	31	4150	134	4000	1,7	-20 to +50	E
Tung Mariner CL G1 5' 50W 840 MS	93119861	1530	50	6800	136	4000	1,7	-20 to +50	E
Mariner Clip G1 - Emergency Static *									
Tung Mariner CL G1 4' 21W 840 SEM	93119520	1230	21	2880	137	4000	1,8	-20 to +50	E
Tung Mariner CL G1 4' 33W 840 SEM	93119521	1230	33	4350	132	4000	1,8	-20 to +50	E
Tung Mariner CL G1 5' 31W 840 SEM	93119522	1530	31	4150	134	4000	2,0	-20 to +50	E
Tung Mariner CL G1 5' 54W 840 SEM	93119523	1530	64	6650	123	4000	2,0	-20 to +50	E
Mariner Clip G1 - Emergency DALI *									
Tung Mariner CL G1 4' 21W 840 DEM	93119524	1230	21	2750	131	4000	1,9	-20 to +50	E
Tung Mariner CL G1 4' 33W 840 DEM	93119525	1230	33	4350	132	4000	1,9	-20 to +50	D
Tung Mariner CL G1 5' 31W 840 DEM	93119526	1530	31	3900	126	4000	2,3	-20 to +50	E
Tung Mariner CL G1 5' 54W 840 DEM	93119527	1530	54	6500	120	4000	2,3	-20 to +40	E

* available from December 2021 only.



LED INDOOR SOLUTION

Mariners



Car park



Industrial



Retail

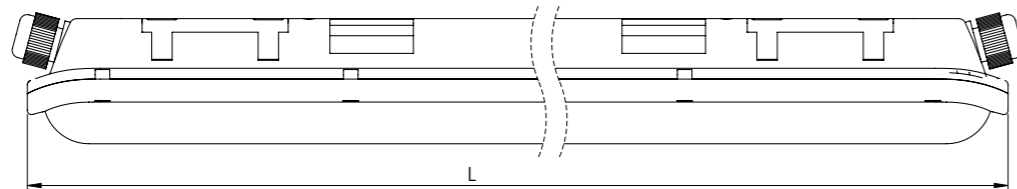
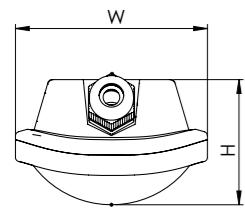
Mariner Integrated Value range

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential, and industrial environments. It is an energy-efficient, low maintenance alternative to traditional fluorescent waterproof fixtures.

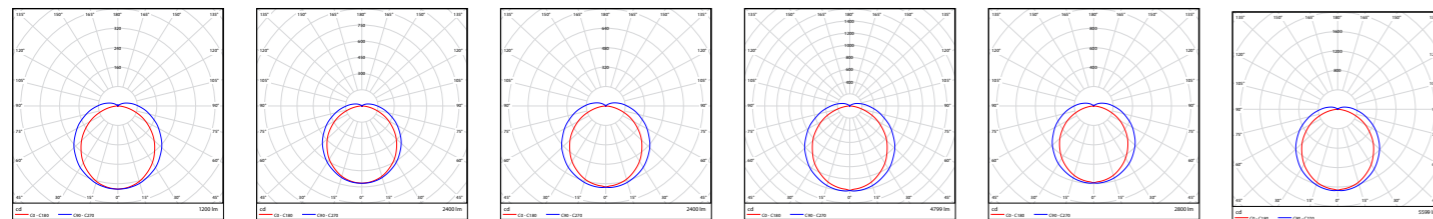


Benefits

- Uniform light
- Convenient, continuous connection for sizes of 600mm, 1200mm and 1500mm, simple and easy installation options
- High resistance against ambient air with humidity and high-particle loads
- Fast and simple installation due to easy connection design



Length	Lumen package	Width (mm)	Length (mm)	Height (mm)
2ft = 600mm	low - 1200lm	72	600	58
2ft = 600mm	high - 2400lm	92	600	60
4ft = 1200mm	low - 2400lm	72	1200	58
4ft = 1200mm	high - 4800lm	92	1200	60
5ft = 1500mm	low - 2800lm	72	1500	58
5ft = 1500mm	high - 5600lm	92	1500	60



2' 12W

2' 24W

4' 24W

4' 48W

5' 28W

5' 56W

Mariner Integrated Value range



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Rated life (h)/L80B50	Dimensions (mm)	Weight (kg)	EEC
Mariner Integrated Value range - Static driver									
LED MARINER ST G1 TU 2' 12W 840 S EU	93096947	12	1200	4000	100	40000	72x600x58	0,7	-
LED MARINER ST G1 TU 2' 12W 865 S EU	93096949	12	1200	6500	100	40000	72x600x58	0,7	-
LED MARINER ST G1 TU 2' 24W 840 S EU	93096950	24	2400	4000	100	40000	92x600x60	0,8	-
LED MARINER ST G1 TU 2' 24W 865 S EU	93096952	24	2400	6500	100	40000	92x600x60	0,8	-
LED MARINER ST G1 TU 4' 24W 840 S EU	93096955	24	2400	4000	100	40000	72x1200x58	1,3	-
LED MARINER ST G1 TU 4' 24W 865 S EU	93096957	24	2400	6500	100	40000	72x1200x58	1,3	-
LED MARINER ST G1 TU 5' 28W 840 S EU	93096959	28	2800	4000	100	40000	72x1500x58	1,7	-
LED MARINER ST G1 TU 5' 28W 865 S EU	93096961	28	2800	6500	100	40000	72x1500x58	1,7	-
LED MARINER ST G1 TU 4' 48W 840 S EU	93096962	48	4800	4000	100	40000	92x1200x60	1,7	-
LED MARINER ST G1 TU 4' 48W 865 S EU	93096965	48	4800	6500	100	40000	92x1200x60	1,7	-
LED MARINER ST G1 TU 5' 56W 840 S EU	93096968	56	5600	4000	100	40000	92x1500x60	2	-
LED MARINER ST G1 TU 5' 56W 865 S EU	93096971	56	5600	6500	100	40000	92x1500x60	2	-

Products available only until stock lasts.



LED INDOOR SOLUTION

Mariners



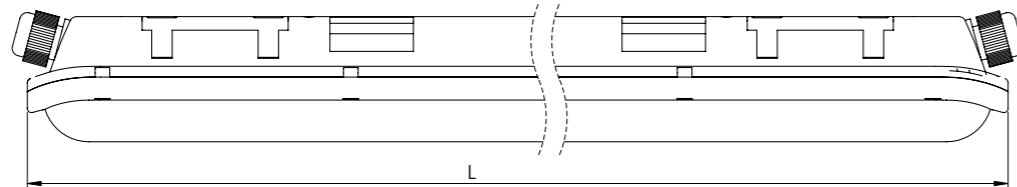
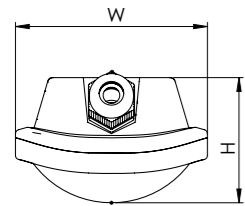
Mariner Integrated Standard range

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential, and industrial environments. It is an energy-efficient, low maintenance alternative to traditional fluorescent waterproof fixtures.

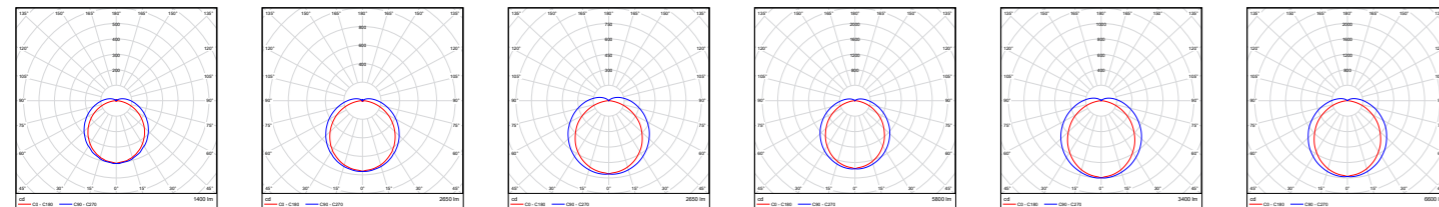


Benefits

- Uniform light
- Convenient, continuous connection for sizes of 600mm, 1200mm and 1500mm, simple and easy installation options
- High resistance against ambient air with humidity and high-particle loads
- Fast and simple installation due to easy connection design

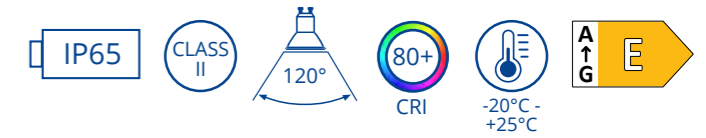


Length	Lumen package	Width (mm)	Length (mm)	Height (mm)
2ft = 600mm	low - 1200lm	72	600	58
2ft = 600mm	high - 2400lm	92	600	60
4ft = 1200mm	low - 2400lm	72	1200	58
4ft = 1200mm	high - 4800lm	92	1200	60
5ft = 1500mm	low - 2800lm	72	1500	58
5ft = 1500mm	high - 5600lm	92	1500	60



2' 12W 2' 22W 4' 22W 4' 46W 5' 28W 5' 54W

Mariner Integrated Standard range



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Rated life (h) /L80B50	Dimensions (mm)	Weight (kg)
Mariner Integrated Standard range - Static driver								
LED MARINER ST G2 TU 2' 12W 840 S	93120923	12	1400	4000	116	50000	72x600x58	0,7
LED MARINER ST G2 TU 2' 12W 865 S	93120924	12	1400	6500	116	50000	72x600x58	0,7
LED MARINER ST G2 TU 2' 22W 840 S	93120925	22	2650	4000	110	50000	92x600x60	0,8
LED MARINER ST G2 TU 2' 22W 865 S	93120926	22	2650	6500	110	50000	92x600x60	0,8
LED MARINER ST G2 TU 4' 22W 840 S	93120927	22	2650	4000	110	50000	72x1200x58	1,3
LED MARINER ST G2 TU 4' 22W 865 S	93120928	22	2650	6500	110	50000	72x1200x58	1,3
LED MARINER ST G2 TU 4' 46W 840 S	93120931	46	5800	4000	121	50000	92x1200x60	1,7
LED MARINER ST G2 TU 4' 46W 865 S	93120941	46	5800	6500	121	50000	92x1200x60	1,7
LED MARINER ST G2 TU 5' 28W 840 S	93120929	28	3400	4000	120	50000	72x1500x58	1,7
LED MARINER ST G2 TU 5' 28W 865 S	93120930	28	3400	6500	120	50000	72x1500x58	1,7
LED MARINER ST G2 TU 5' 54W 840 S	93120942	54	6600	4000	117	50000	92x1500x60	2
LED MARINER ST G2 TU 5' 54W 865 S	93120932	54	6600	6500	117	50000	92x1500x60	2

Available from November
The fixture is manufactured with PC (polycarbonate) materials, which can be sensitive to certain corrosive materials (like oil or different chemicals), therefore we recommend to consult with our sales representative or customer care team the right fixture, prior to purchase and installation.



Waterproof Mariner Empty Body

Standard surface mounted / suspended waterproof fittings created for use with GE/Tungsramp T8 LED tubes. Slim profile luminaire, supplied in single and twin lamp versions. IP65 rated, where effective protection against contamination from water or accidental damage are major considerations for the end-user. Neutral aesthetics render the product suitable for applications in both commercial and residential environments as well as industrial environments.

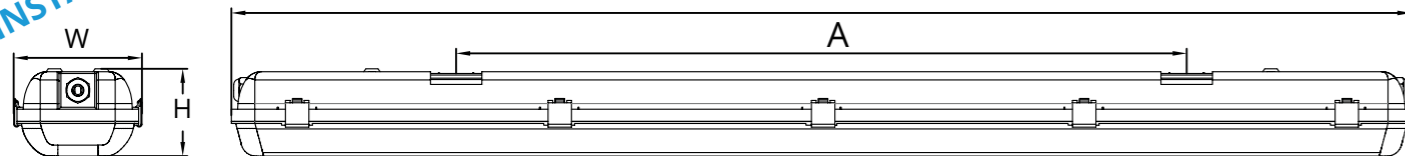


Benefits

- Prewired for easy installation of AC T8 LED lamps
- Luminous flux and light-colour adjustable based on selected lamps
- High protection rating: IP65 and IK08
- Suitable for operation in ambient temperature of -20°C to +40°C
- Integrated through-wiring (3x1.5mm²) for continuous connection

- Body: impact-resistant, self-extinguishing polycarbonate cover
- Colour: grey
- Sealing material between the shell and cover in PU (polyurethane), which offers the lamp-excellent waterproof ability
- Waterproof plastic wiring connector with rubber gasket on one side of the fitting
- Convenient assembly bracket for ceiling mount
- Reflector in white painted steel, connected to the shell by two anti-loss plastic devices
- Small shape and lightweight

**EASY
INSTALLATION**



Type	L (mm)	W (mm)	H (mm)	A (mm)
1x1200mm	1270	65	70	900 +/- 36
2x1200mm	1270	102	70	900 +/- 36
1x1500mm	1570	65	70	1200 +/- 36
2x1500mm	1570	103	70	1200 +/- 36

Waterproof Mariner Empty Body

IP65

Product Description

Product Code

Wattage (W)

Dimensions (mm)

Waterproof Mariner Empty Body

LED MARINER BODY TU T8 SINGLE 1200MM	93107517	max 18W	1270x65x70
LED MARINER BODY TU T8 TWIN 1200MM	93107518	max 2x18W	1270x102x70
LED MARINER BODY TU T8 SINGLE 1500MM	93107519	max 27W	1570x65x70
LED MARINER BODY TU T8 TWIN 1500MM	93107520	max 2x27W	1570x102x70

The fixture is manufactured with PC (polycarbonate) materials, which can be sensitive to certain corrosive materials (like oil or different chemicals), therefore we recommend to consult with our sales representative or customer care team the right fixture, prior to purchase and installation.



LED INDOOR SOLUTION

Battens



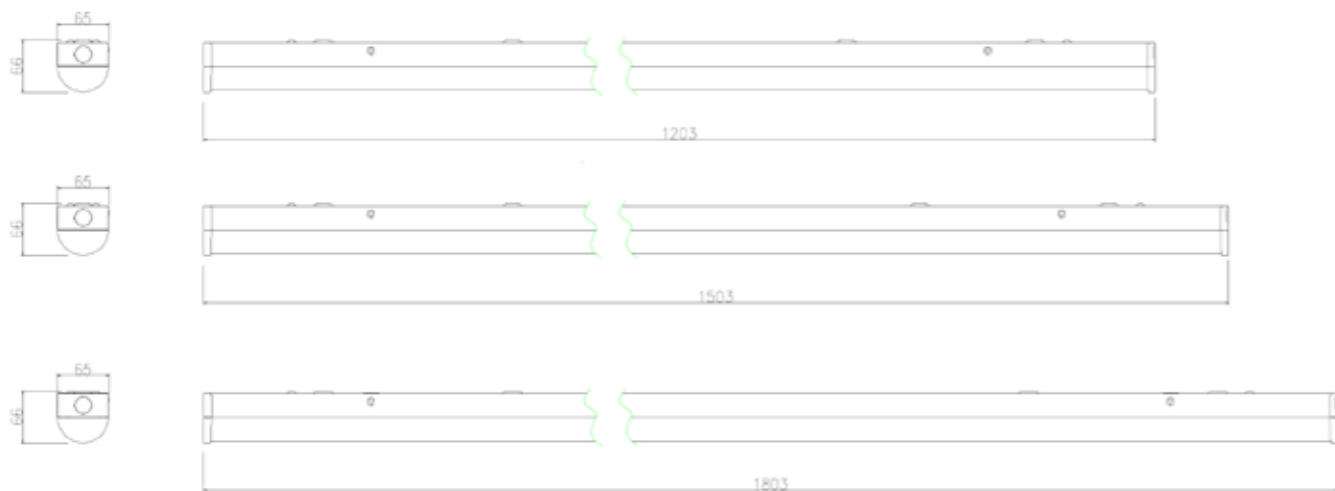
SwiftLUX

Tungsrām SwiftLux linear range of fixtures offer a quick install adaptable IP20 batten. Its sleek and innovative design offer up to 142lm/W with a lifetime of 50,000 hours @ L80/B20. Tried and tested integrated LED technology, which guarantees a quick installation and long life. This range of fixtures offer a direct replacement for fluorescent battens in terms of lumen output and standard dimensions.

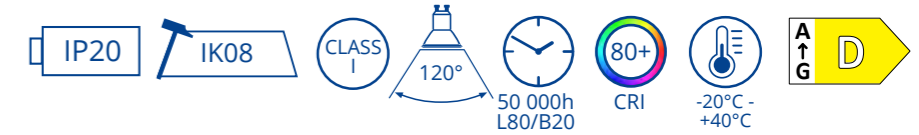


Benefits

- Power: from 22W to 72W
- Control: DALI and Static control
- Efficiency: Up to 142lm/w
- Luminous flux: up to 9750lm
- 5 - Year Warranty
- Emergency Option
- Microwave Sensor Option
- Corridor function



SwiftLUX



Product Description	Product Code	Length	Control	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)
Static range							
SWIFTLUX G1 4' 22W 840 S	93119486	1200mm	Static	22	3100	141	840
SWIFTLUX G1 4' 37W 840 S	93119492	1200mm	Static	37	5200	141	840
SWIFTLUX G1 5' 36W 840 S	93119487	1500mm	Static	36	5100	142	840
SWIFTLUX G1 5' 57W 840 S	93119493	1500mm	Static	57	7980	140	840
SWIFTLUX G1 6' 53W 840 S	93119488	1800mm	Static	53	7500	142	840
SWIFTLUX G1 6' 69W 840 S	93119494	1800mm	Static	69	9670	140	840
Static with Sensor							
SWIFTLUX G1 4' 21W 840 S MS	93119498	1200mm	Static	21	2870	137	840
SWIFTLUX G1 4' 38W 840 S MS	93119501	1200mm	Static	38	5200	137	840
SWIFTLUX G1 5' 34W 840 S MS	93119499	1500mm	Static	34	4760	140	840
SWIFTLUX G1 5' 55W 840 S MS	93119502	1500mm	Static	55	7200	131	840
SWIFTLUX G1 6' 52W 840 S MS	93119500	1800mm	Static	52	7100	137	840
Dimmable range							
SWIFTLUX G1 4' 41W 840 D	93119506	1200mm	DALI	40	5400	135	840
SWIFTLUX G1 5' 62W 840 D	93119507	1500mm	DALI	62	8100	131	840
Emergency range							
SWIFTLUX G1 4' 25W 840 S EM	93119489	1200mm	Emergency	25	3100	124	840
SWIFTLUX G1 4' 40W 840 S EM	93119495	1200mm	Emergency	40	5000	125	840
SWIFTLUX G1 5' 39W 840 S EM	93119490	1500mm	Emergency	39	4750	122	840
SWIFTLUX G1 5' 60W 840 S EM	93119496	1500mm	Emergency	60	7800	130	840
SWIFTLUX G1 6' 56W 840 S EM	93119491	1800mm	Emergency	56	7600	135	840
SWIFTLUX G1 6' 72W 840 S EM	93119497	1800mm	Emergency	72	9400	130	840



LED INDOOR SOLUTION

Battens



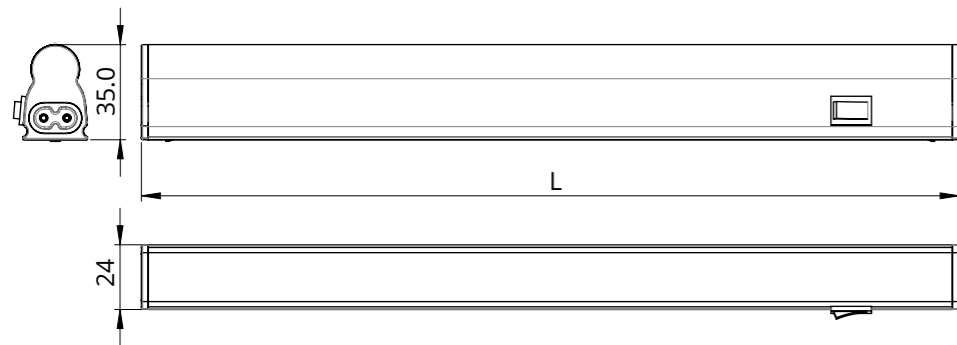
T5 Switch Batten

The LED T5 Batten designed to be a direct replacement for conventional battens, with energy savings. It offers multiple installation methods to ease your worries and bring the customer a brand new experience of soft lighting. The luminaire is fitted with an on/off switch for individual operation. The best choice for smooth linear lighting.



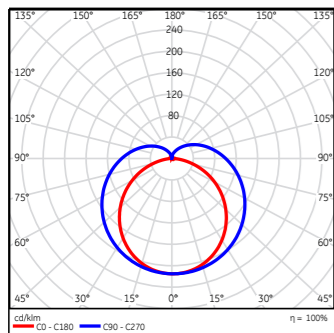
Benefits

- Long life: lifetime 50 000hrs @L70
- High color rendering: CRI>80
- High efficiency: up to 110lm/w
- Environmental: save up to 60% energy
- Beam angle: 150°
- Class: II
- IP20
- IK03

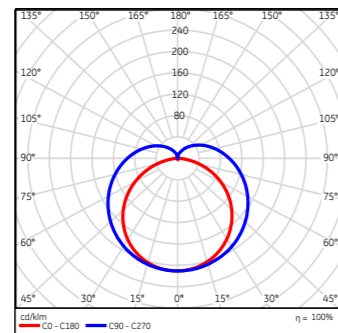


Body material: Polycarbonate (PC)

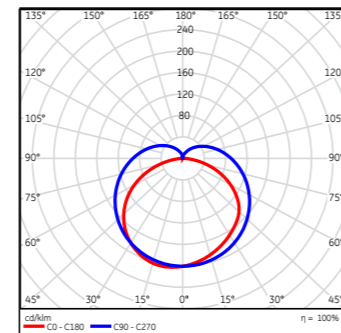
Product colour: White



8W



12W



16W

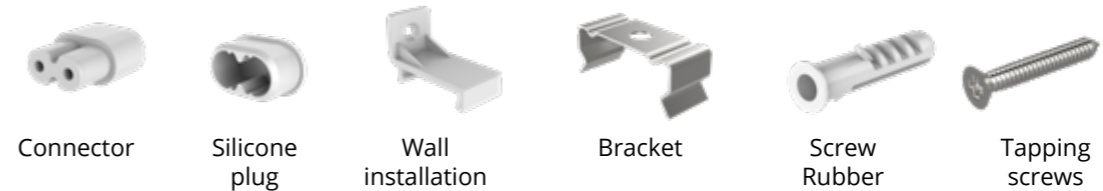
T5 Switch Batten



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
T5 Switch Batten - Static driver *								
LED Batten G1 TU IP20 8W 2ft 830 S	93107522	8	900	3000	110	24x602x35	0,115	-
LED Batten G1 TU IP20 8W 2ft 840 S	93108069	8	900	4000	110	24x602x35	0,115	-
LED Batten G1 TU IP20 12W 3ft 830 S	93107523	12	1350	3000	110	24x902x35	0,16	-
LED Batten G1 TU IP20 12W 3ft 840 S	93108070	12	1350	4000	110	24x902x35	0,16	-
LED Batten G1 TU IP20 16W 4ft 830 S	93107524	16	1800	3000	110	24x1184x35	0,2	-
LED Batten G1 TU IP20 16W 4ft 840 S	93108071	16	1800	4000	110	24x1184x35	0,2	-
T5 Switch Batten - Static driver (Gen2) **								
LED Batten G2 TU IP20 8W 2ft 830 S	93120933	8	960	3000	120	24x602x35	0,115	E
LED Batten G2 TU IP20 8W 2ft 840 S	93120934	8	960	4000	120	24x602x35	0,115	E
LED Batten G2 TU IP20 12W 3ft 830 S	93120935	12	1440	3000	120	24x902x35	0,16	E
LED Batten G2 TU IP20 12W 3ft 840 S	93120936	12	1440	4000	120	24x902x35	0,16	E
LED Batten G2 TU IP20 16W 4ft 830 S	93120937	16	1920	3000	120	24x1184x35	0,2	E
LED Batten G2 TU IP20 16W 4ft 840 S	93120938	16	1920	4000	120	24x1184x35	0,2	E
Accessories								
Connecting cable (wire 200mm)	93107516							
Power cable 1m with EU plug	93108089							
Power cord without plug	93107515							

* Available only until stock lasts
** Available from November 2021

The below accessories are included in the product.



LED INDOOR SOLUTION

Battens



Indoor/
cove



Industrial



Retail



Hospitality



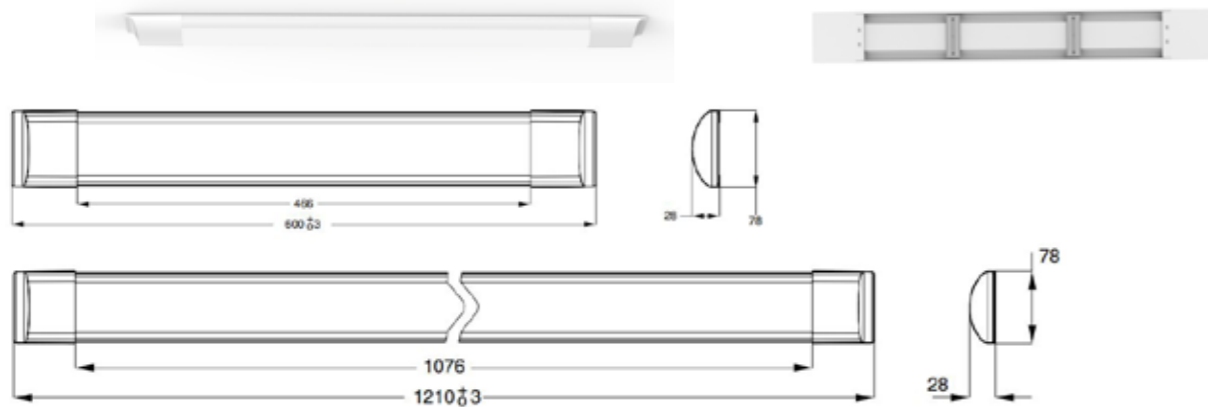
Office

Batten IP65

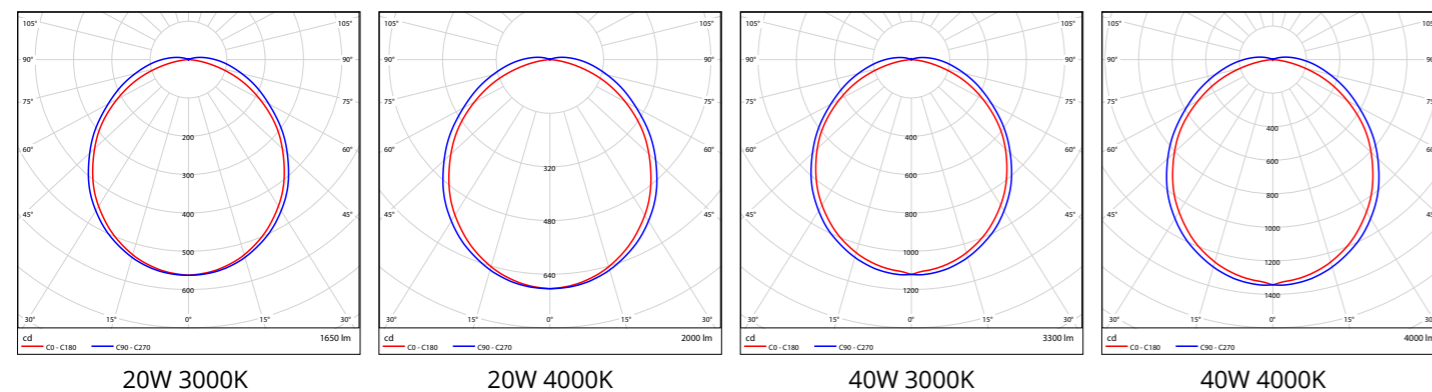
We designed the LED IP65 Batten to be a direct replacement for conventional battens while providing energy savings. Your best choice for smooth linear lighting; the available range is in 20W & 40W with the sizes of 600mm and 1200mm. Featuring high grade polycarbonate diffuser and housing, they are suitable for commercial and industrial use where moisture or dust is prevalent. The Weatherproof Batten range offers cost effective reliability and weatherproof resistance.

Benefits

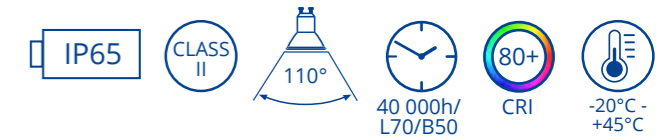
- Easy to install, requires small space due to compact size
- Seamless linear lighting without dark spots
- Environmental: save up to 60% energy
- High color rendering: CRI>80
- High efficiency: up to 100lm/w



Description	Wattage	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
LED Batten TU 20W xxx	20	600	78	28	0.45
LED Batten TU 40W xxx	40	1210	78	28	0.75



Batten IP65



Product Description

Batten IP65 - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
LED Batten TU 20W 600mm 3000K IP65	20	1650	3000	83	600x28x78	0.45
LED Batten TU 20W 600mm 4000K IP65	20	2000	4000	100	600x28x78	0.45
LED Batten TU 40W 1200mm 3000K IP65	40	3300	3000	83	1210x28x78	0.75
LED Batten TU 40W 1200mm 4000K IP65	40	4000	4000	100	1210x28x78	0.75

Available only until stock lasts



LED Indoor

LED INDOOR SOLUTION

Bulkheads



General lighting



Retail



Education



Office

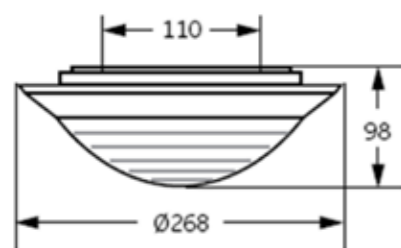
TU-D Bulkhead

A simple and elegant interior light fitting with leading efficiency and classic shape. This is a unique solution which makes the fixture future proof, as only a TU-D replacement lamp is needed, once product has reached its end-of-life, or when an end user wishes to switch to a different colour temperature. It is a wall and ceiling LED luminaire that can be utilised in versatile application ranges including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and outside walls of buildings.

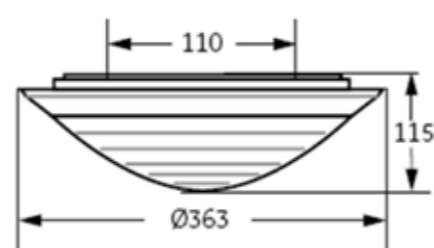


Benefits

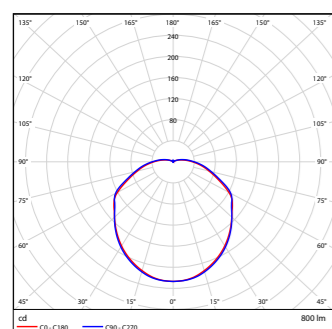
- Future-proof, upgradeable design
- Replaceable LED TU-D lamp included
- High efficiency up to 138 lm/W
- L70 40,000 hours
- Min 80 CRI
- Clear and Opal diffuser options



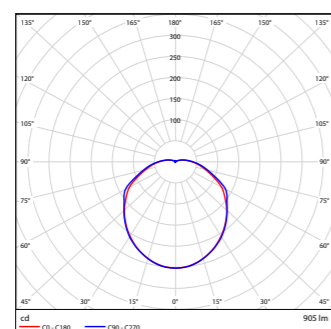
6.5W



12.5W



3500K



4000K



TU-D Bulkhead



40 000h/
L70/B50



80+
CRI



-10°C -
+40°C

LED Indoor

Product Description

TU-D Bulkhead - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Diffuser type
93118131	6,5	800	3500	123	Ø268 x 98	0,668	Clear
93118133	12,5	1500	3500	120	Ø363 x 115	1,154	Clear
93118135	6,5	700	3500	108	Ø268 x 98	0,661	Opal
93118137	12,5	1300	3500	104	Ø363 x 115	1,146	Opal
93118134	12,5	1675	4000	133	Ø363 x 115	1,154	Clear
93118138	12,5	1548	4000	122	Ø363 x 115	1,146	Opal
93118132	6,5	907	4000	138	Ø268 x 98	0,668	Clear
93118136	6,5	792	4000	123	Ø268 x 98	0,661	Opal





Integrated Bulkhead

Tungsram bulkhead range offer an excellent choice with simple and elegant design in 3 sizes. It is a wall and ceiling LED luminaire that can be used in versatile application areas including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and outside walls of buildings.



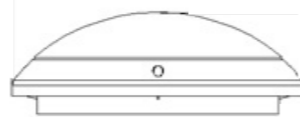
Benefits

- Power: from 17W to 30W
- Control: DALI and Static control
- Finish: Opal diffuser, optional Eyelid accessory available
- Efficiency: up to 120lm/W
- Luminous flux: up to 3240lm
- Lifetime: 60.000 hours @ L80/B10
- 5 - Year Warranty
- Programmable Microwave Sensor Options

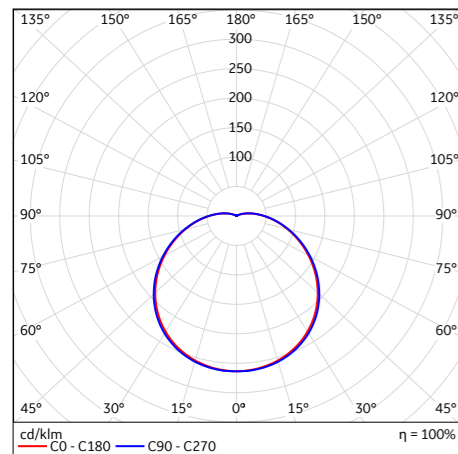
Backplate

LED modul

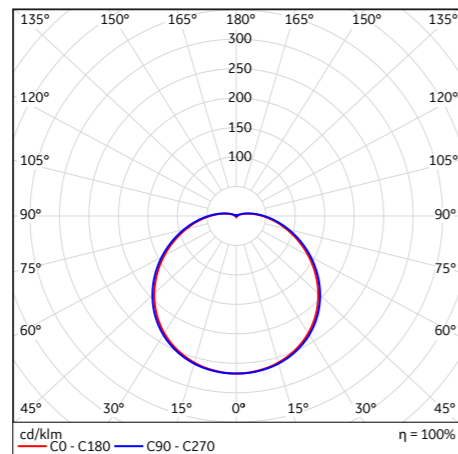
Eyelid



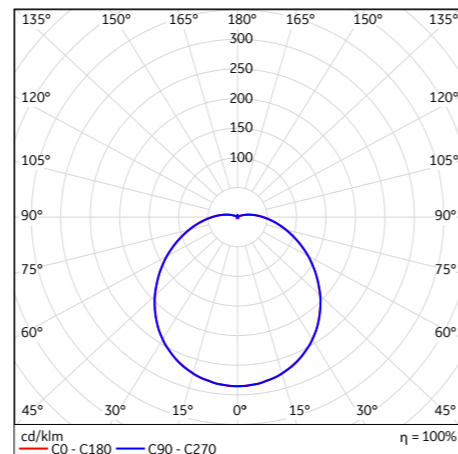
Range	Diameter	Height
D25	ø250mm	100mm
D30	ø300mm	106mm
D33	ø330mm	106mm



Ø250 9W

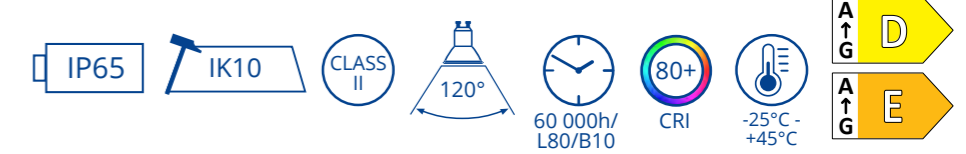


Ø250 17W



Ø300 25W

Integrated Bulkhead



Product Description	Product Code	Wattage (W)	Control	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Ambient Temperature °C	EEC
Integrated Bulkhead - Static basic										
LED Bulkhead G2 TU D25 17W 840 S NNN	93119318	17	static	2040	4000	120	Ø250 x 100	0,5	-25 to +45	E
LED Bulkhead G2 TU D30 17W 840 S NNN	93119319	17	static	2040	4000	120	Ø300 x 106	0,7	-25 to +45	E
LED Bulkhead G2 TU D30 25W 840 S NNN	93119320	25	static	3000	4000	120	Ø300 x 106	0,7	-25 to +45	E
LED Bulkhead G2 TU D33 20W 840 S NNN	93119321	20	static	2400	4000	120	Ø330 x 106	0,7	-25 to +45	E
LED Bulkhead G2 TU D33 27W 840 S NNN	93119322	27	static	3240	4000	120	Ø330 x 106	0,7	-25 to +45	E
Integrated Bulkhead - DALI										
LED Bulkhead G2 TU D30 18W 840 D NNN	93119349	18	DALI	1980	4000	110	Ø300 x 106	0,8	-25 to +45	E
LED Bulkhead G2 TU D33 18W 840 D NNN	93119351	18	DALI	1980	4000	110	Ø330 x 106	0,8	-25 to +45	E
Integrated Bulkhead - Motion and daylight sensor										
LED Bulkhead G2 TU D25 17W 840 S NNM	93119333	17	static	2040	4000	120	Ø250 x 100	0,6	-25 to +45	E
LED Bulkhead G2 TU D30 17W 840 S NNM	93119334	17	static	2040	4000	120	Ø300 x 106	0,8	-25 to +45	E
LED Bulkhead G2 TU D30 25W 840 S NNM	93119335	25	static	3000	4000	120	Ø300 x 106	0,8	-25 to +45	E
LED Bulkhead G2 TU D33 17W 840 S NNM	93119336	17	static	2040	4000	120	Ø330 x 106	0,8	-25 to +45	E
LED Bulkhead G2 TU D33 27W 840 S NNM	93119337	27	static	3240	4000	120	Ø330 x 106	0,8	-25 to +45	E
Integrated Bulkhead - Emergency 3 hours										
LED Bulkhead G2 TU D30 20W 840 S EMN	93119361	20	static	2100	4000	105	Ø300 x 106	0,9	0 to +25	D
LED Bulkhead G2 TU D33 20W 840 S EMN	93119362	20	static	2100	4000	105	Ø330 x 106	0,9	0 to +25	E
LED Bulkhead G2 TU D33 30W 840 S EMN	93119363	30	static	3150	4000	105	Ø330 x 106	0,9	0 to +25	E
Integrated Bulkhead - Motion and daylight sensor + Emergency										
LED Bulkhead G2 TU D33 20W 840 S EMM	93119369	20	static	2100	4000	105	Ø330 x 106	0,9	0 to +25	E
LED Bulkhead G2 TU D33 30W 840 S EMM	93119370	30	static	3150	4000	105	Ø330 x 106	0,9	0 to +25	E
Integrated Bulkhead - Eyelid accessory										
LED Bulkhead G2 TU D30 Eyelid B	93119685									
LED Bulkhead G2 TU EM Battery	93119722									



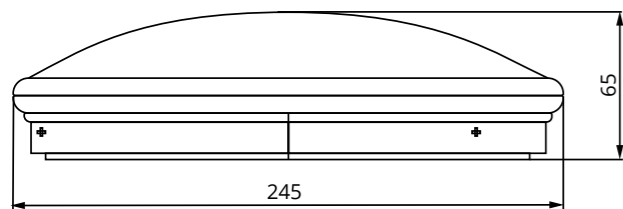
Ceiling Light

This is a simple and elegant light fitting, designed with Integrated LED Light Module for interior applications. A wall and ceiling LED luminaire, it can be utilised in versatile application ranges including entrance halls, receptions, stairwells, corridors, circulation routes, and rest areas of buildings.

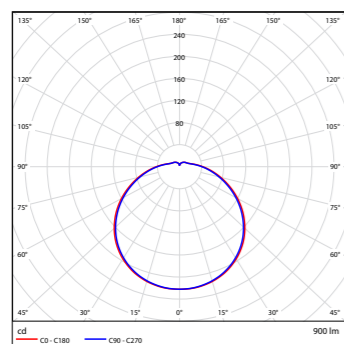


Benefits

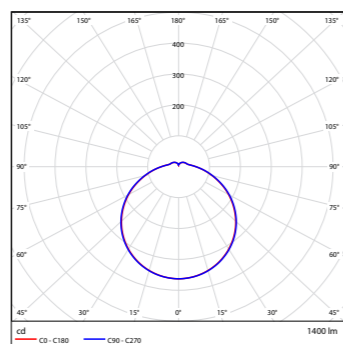
- Light weight: up to 0.62kg
- Max ambient temperature: +25°C, „horizont light“ category
- Lifespan 25 000 hours (L70)
- Fast, simple and easy installation options
- Colour rendering index: CRI 80+



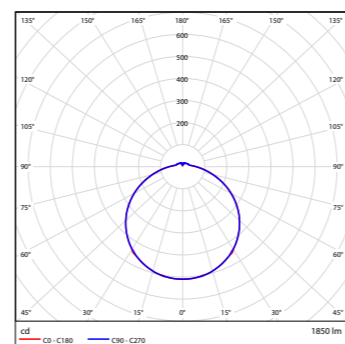
Wattage	D	H
12W	Ø245	65
18W	Ø315	65
24W	Ø365	65



12W 4000K



18W 4000K



24W 4000K

Ceiling Light

Product Description

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	EEC
Ceiling Light - Static driver								
LED Ceiling G1 TU SC 12W 830 SN IP20	93115048 *	12	900	3000	75	Ø245 x 65	0,35	F
LED Ceiling G1 TU SC 12W 840 SN IP20	93115049	12	900	4000	75	Ø245 x 65	0,35	F
LED Ceiling G1 TU SC 18W 830 SN IP20	93115050 *	18	1400	3000	78	Ø315 x 65	0,55	E
LED Ceiling G1 TU SC 18W 840 SN IP20	93115051	18	1400	4000	78	Ø315 x 65	0,55	E
LED Ceiling G1 TU SC 24W 830 SN IP20	93115052 *	22	1850	3000	77	Ø365 x 65	0,62	E
LED Ceiling G1 TU SC 24W 840 SN IP20	93115053	22	1850	4000	77	Ø365 x 65	0,62	E

* Available only until stock lasts



LED INDOOR SOLUTION

Floodlights



Public areas



Car park / Garage



Industrial



Building facades



Retail

Floodlights G3

LED Floodlight is a universal, compact range of floodlights with six lumen output levels from 2.000 to 24.000lm and up to 130 LPW efficiency. The range is suitable for wall-mounted applications around building facades, ideal for the classic floodlighting of buildings, as well as lighting for gardens, paths near to buildings, garages or entrance ways. Tungsram LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminium housing and the safety glass cover, the floodlights are ideal for outdoor use.



Benefits

- High impact and ingress protection level
- High efficiency up to 130lm/W
- Robust, reliable design
- Multivoltage driver for all products without sensor.
- CCT: 3000K, 4000K and 6500K options
- Long life: 50 000h @ L80B20



50W



70W



100W



150W



Floodlights G3



50 000h / L80B20



80 CRI



-30°C - +50°C



A ↑ E

Product Description	Product Code	Wattage (W)	Total Lumen (lm)	System Efficiency (lm/W) Based on Total lumen	CCT (K)	IP	IK	Beam angle (°)	Rated life L70 (h)	CRI (Ra)	Voltage (V)
Symmetric range											
LED Flood G3 TU S 10W 830 SY MV BN	93119420	10	1150	115	3000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 10W 840 SY MV BN	93119421	10	1200	120	4000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 10W 865 SY MV BN	93119422	10	1200	120	6500	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 20W 830 SY MV BN	93119423	20	2300	115	3000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 20W 840 SY MV BN	93119424	20	2400	120	4000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 20W 865 SY MV BN	93119425	20	2400	120	6500	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 30W 830 SY MV BN	93119426	30	3450	115	3000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 30W 840 SY MV BN	93119427	30	3600	120	4000	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 30W 865 SY MV BN	93119428	30	3600	120	6500	65	IK07	110	72000	80	110-240
LED Flood G3 TU S 50W 830 SY MV BN	93119429	50	6250	125	3000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 50W 840 SY MV BN	93119430	50	6500	130	4000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 50W 865 SY MV BN	93119431	50	6500	130	6500	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 70W 830 SY MV BN	93119432	70	8750	125	3000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 70W 840 SY MV BN	93119433	70	9100	130	4000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 70W 865 SY MV BN	93119434	70	9100	130	6500	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 100W 830 SY MV BN	93119435	100	12500	125	3000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 100W 840 SY MV BN	93119436	100	13000	130	4000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 100W 865 SY MV BN	93119437	100	13000	130	6500	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 150W 830 SY MV BN	93119438	150	18750	125	3000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 150W 840 SY MV BN	93119439	150	19500	130	4000	65	IK08	110	72000	80	110-240
LED Flood G3 TU S 150W 865 SY MV BN	93119440	150	19500	130	6500	65	IK08	110	72000	80	110-240
Asymmetric range											
LED Flood G3 TU S 100W 830 AS MV BN	93119454	100	11000	110	3000	65	IK08	40X80	72000	80	110-240
LED Flood G3 TU S 100W 840 AS MV BN	93119456	100	11500	115	4000	65	IK08	40X80	72000	80	110-240
Motion sensor range											
LED Flood G3 TU S 10W 840 SY ST BM	93119444	10	1200	120	4000	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 20W 840 SY ST BM	93119445	20	2400	120	4000	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 20W 865 SY ST BM	93119446	20	2400	120	6500	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 30W 840 SY ST BM	93119447	30	3600	120	4000	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 30W 865 SY ST BM	93119448	30	3600	120	6500	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 50W 840 SY ST BM	93119449	50	6500	130	4000	65	IK08	110	50 000	80	220-240
LED Flood G3 TU S 50W 865 SY ST BM	93119450	50	6500	130	6500	65	IK08	110	50 000	80	220-240
Dusk till dawn range											
LED Flood G3 TU S 20W 840 SY ST BDD	93119451	20	2400	120	4000	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 30W 840 SY ST BDD	93119452	30	3600	120	4000	65	IK07	110	50 000	80	220-240
LED Flood G3 TU S 50W 840 SY ST BDD	93119453	50	6500	130	4000	65	IK07	110	50 000	80	220-240

Motion sensor range and Dusk till dawn range are available only from Q4 2021. For more information, please contact our customer service organization.

LED INDOOR SOLUTION

Floodlights



Public areas



Car park / Garage



Industrial



Building facades



Construction areas

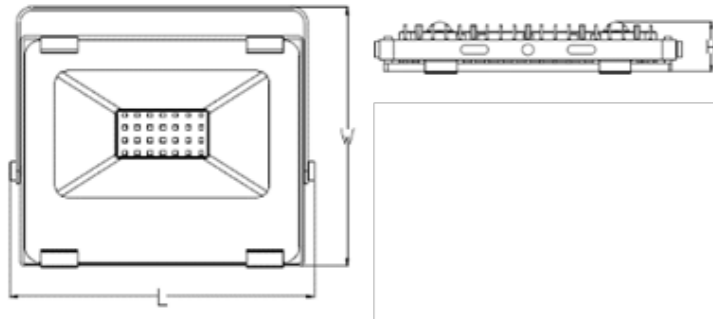
Floodlight Symmetrical Value

LED Floodlight is a universal, compact range of floodlights with lumen output levels from 800 to 9000 lumen and up to 90 LPW efficiency. The range is suitable for various applications wall-mounted around building facades, ideal for the classic floodlighting of buildings as well as lighting for gardens, paths near to buildings, garages, entrance ways and drives. Compared to traditional floodlights, Tungsram LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminum housing with safety glass cover, the floodlights are ideal for outdoor use.

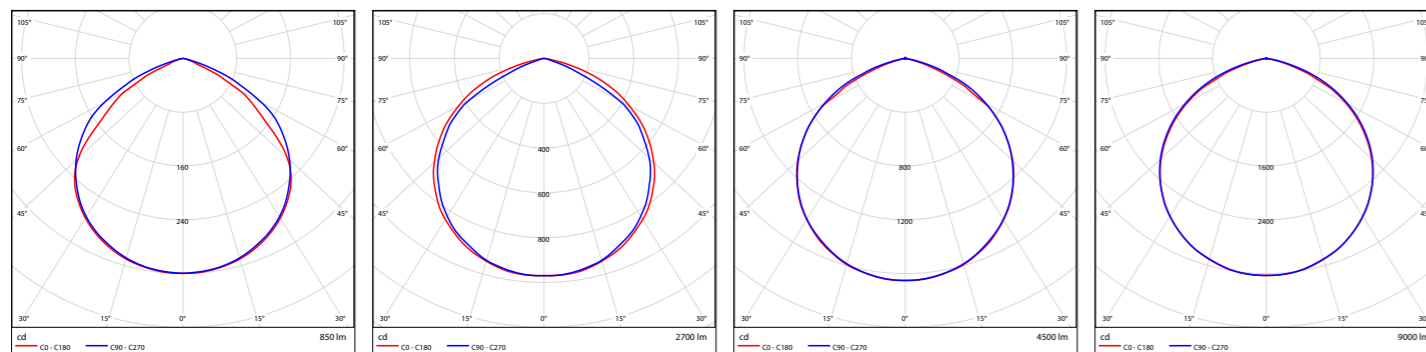


Benefits

- Replace halogen lamps with floodlight luminaires (up to 750W)
- Energy savings up to 80% (compared to luminaires that use halogen)
- Homogenous light
- High resistance against ambient air with humidity and high particle loads (IP65)



Wattage	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
10W	97	103	23.5	0.284
30W	190	242	41	1.085
50W	225	285	48	1.529
100W	262	340	48	2.223



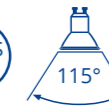
10W

30W

50W

100W

Floodlight Symmetrical Value



25 000h / L70/B50



80+ CRI



-20°C - +40°C



Product Description

Floodlight Symmetrical Value - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
93115851	10	800	3000	80	103x97x23.5	0,28
93115847	10	850	4000	85	103x97x23.5	0,28
93115852	30	2550	3000	85	242x190x41	1,09
93115848	30	2700	4000	90	242x190x41	1,09
93115853	50	4250	3000	85	285x225x48	1,53
93115849	50	4500	4000	90	285x225x48	1,53
93115854	100	8500	3000	85	340x262x48	2,22
93115850	100	9000	4000	90	340x262x48	2,22



LED Indoor

LED INDOOR SOLUTION

Floodlights



Public areas



Car park / Garage



Industrial



Building facades



Retail

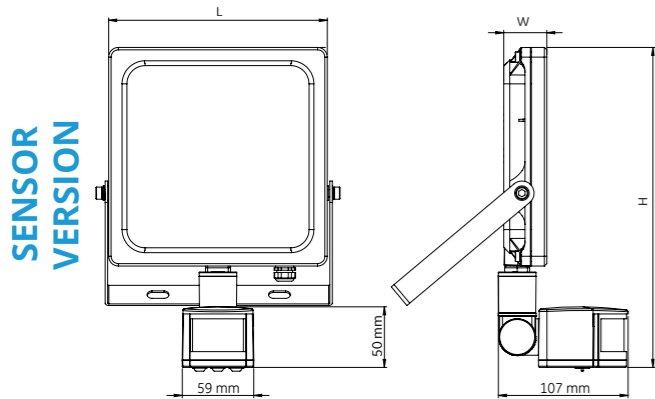
Floodlights

LED Floodlight is a universal, compact range of floodlights with six lumen output levels from 2.000 to 20.000lm and up to 130 LPW efficiency. The range is suitable for wall-mounted applications around building facades, ideal for the classic floodlighting of buildings, as well as lighting for gardens, paths near to buildings, garages or entrance ways. Tunsgam LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminium housing and the safety glass cover, the floodlights are ideal for outdoor use.

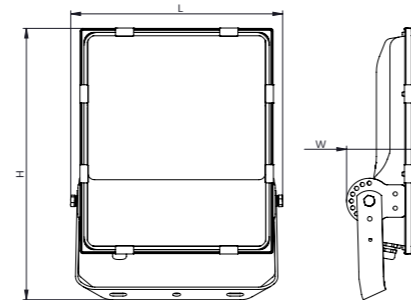


Benefits

- Energy savings up to 90% (compared to luminaires that use halogen)
- Homogenous light
- High-resistance against ambient air with humidity and high particle loads
- Static built-in driver
- 3000K, 4000K, 6500K versions



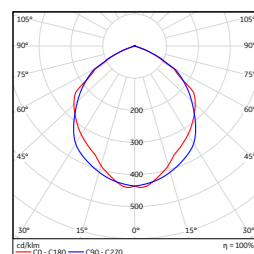
STANDARD VERSION



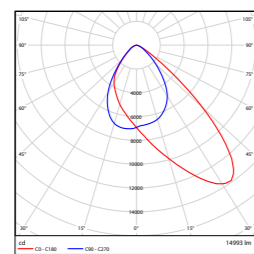
Type	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BM	263±1	36	163±1
LED Flood G1 TU S 30W...BM	303±1	36	202±1
LED Flood G1 TU S 50W...BM	323±1	36	216±1

Type	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BN	163±1	36	163±1
LED Flood G1 TU S 30W...BN	203±1	36	202±1
LED Flood G1 TU S 50W...BN	223±1	36	216±1
LED Flood G1 TU S 75W...BN	286±1	91	368±1
LED Flood G1 TU S 115W...BN	337±1	91	419±1
LED Flood G1 TU S 150W...BN	373±1	91	450±1

Symmetric optic



Asymmetric optic



Up to 20000lm

Floodlights



LED Indoor

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	IP	Dimensions (mm)	Beam Angle (°)	Weight (kg)
Floodlight Symmetrical - Static driver									
LED Flood G1 TU S 20W 830 SY ST BN	93115907	20	1800	3000	90	65	163x36x163	100 without reflector	0.62
LED Flood G1 TU S 20W 840 SY ST BN	93101677	20	2000	4000	100	65	163x36x163		0.62
LED Flood G1 TU S 20W 865 SY ST BN	93107561	20	2000	6500	100	65	163x36x163		0.62
LED Flood G1 TU S 30W 830 SY ST BN	93115908	30	2800	3000	93	65	203x36x202		0.97
LED Flood G1 TU S 30W 840 SY ST BN	93101678	30	3000	4000	100	65	203x36x202		0.97
LED Flood G1 TU S 30W 865 SY ST BN	93107562	30	3000	6500	100	65	203x36x202		0.97
LED Flood G1 TU S 50W 830 SY ST BN	93115909	50	5600	3000	110	65	223x36x216		1.14
LED Flood G1 TU S 50W 840 SY ST BN	93101679	50	6000	4000	120	65	223x36x216		1.14
LED Flood G1 TU S 50W 865 SY ST BN	93107563	50	6000	6500	120	65	223x36x216		1.14
LED Flood G1 TU S 75W 830 SY ST BN	93115910	75	9000	3000	120	66	286x91x368		3.29
LED Flood G1 TU S 75W 840 SY ST BN	93101680	75	10000	4000	133	66	286x91x368	3.29	
LED Flood G1 TU S 75W 865 SY ST BN	93107564	75	10000	6500	133	66	286x91x368	3.29	
LED Flood G1 TU S 115W 830 SY ST BN	93115911	115	14000	3000	122	66	337x91x419	4.20	
LED Flood G1 TU S 115W 840 SY ST BN	93101681	115	15000	4000	130	66	337x91x419	4.20	
LED Flood G1 TU S 115W 865 SY ST BN	93107565	115	15000	6500	130	66	337x91x419	4.20	
LED Flood G1 TU S 150W 830 SY ST BN	93115912	150	18500	3000	123	66	373x91x450	5.33	
LED Flood G1 TU S 150W 840 SY ST BN	93101683	150	20000	4000	133	66	373x91x450	5.33	
LED Flood G1 TU S 150W 865 SY ST BN	93107566	150	20000	6500	133	66	373x91x450	5.33	
LED Flood G1 TU S 20W 840 SY ST BM *	93107575	20	2000	4000	100	65	263x36x163	100 without reflector	0.62
LED Flood G1 TU S 20W 865 SY ST BM *	93107576	20	2000	6500	100	65	263x36x163		0.62
LED Flood G1 TU S 30W 840 SY ST BM *	93107577	30	3000	4000	100	65	303x36x202		0.97
LED Flood G1 TU S 30W 865 SY ST BM *	93107578	30	3000	6500	100	65	303x36x202		0.97
LED Flood G1 TU S 50W 840 SY ST BM *	93107579	50	6000	4000	120	65	323x36x216		1.14
LED Flood G1 TU S 50W 865 SY ST BM *	93107580	50	6000	6500	120	65	323x36x216		1.14
LED Flood G1 TU S 20W 840 SY ST BDD **	93118605	20	2000	4000	100	65	163x36x163		0.62
LED Flood G1 TU S 30W 840 SY ST BDD **	93118616	30	3000	4000	100	65	203x36x202		0.97
LED Flood G1 TU S 50W 840 SY ST BDD **	93118617	50	6000	4000	120	65	223x36x216		1.14
Floodlight Asymmetrical - Static driver									
LED Flood G1 TU S 115W 840 AS ST BN	93101682	115	14375	4000	125	66	373x91x450	45x85 asym.	5.33
LED Flood G1 TU S 150W 840 AS ST BN	93101684	150	18000	4000	120	66	373x91x450	45x85 asym.	5.33
Accessories									
IP68 connector for Floodlight/DL01-3A	93118306								

The range is available only until stock lasts.

* With Motion Sensor

** Dusk till Dawn Floodlight



LED INDOOR SOLUTION

Emergency solution



Healthcare



General lighting



Education



Retail



Office

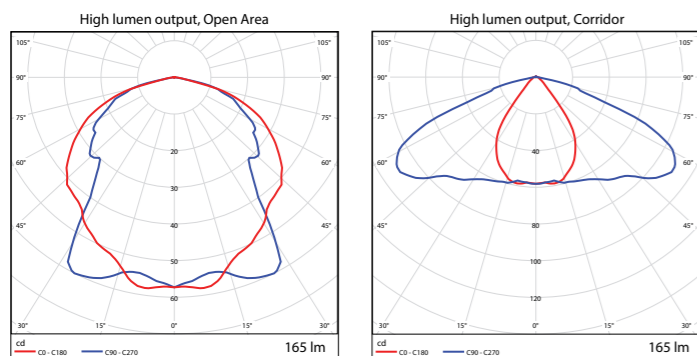
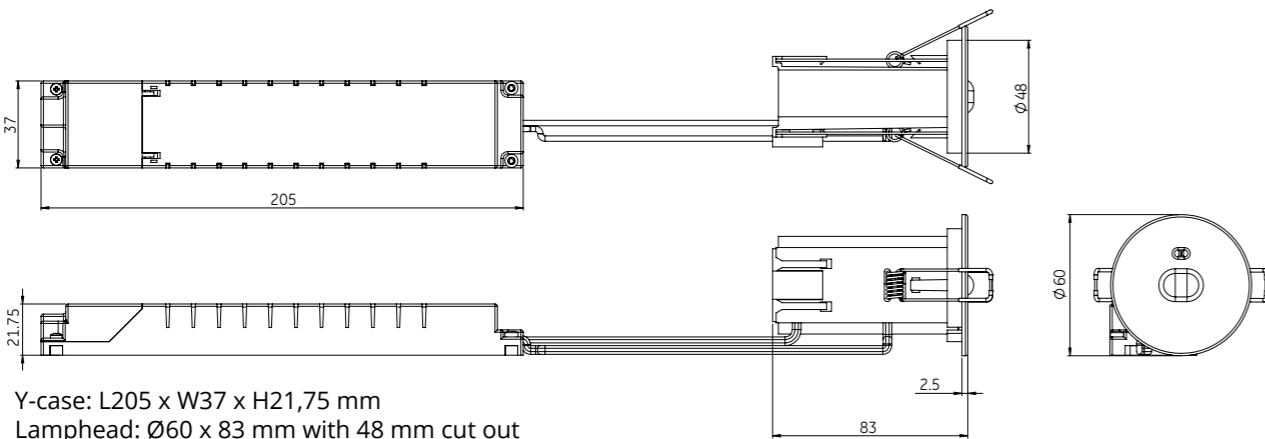
LED Emergency Downlight Recessed

The Emergency Downlighter consists of an LED lamphead with integrated battery, status indicator LED and an emergency lighting unit to operate the single LED in maintained and non-maintained mode. The optically efficient lenses ensure optimum performance for corridor or open area applications. The safety-compliant downlight emergency lighting is for recessed mounting and ensures emergency escape route lighting in buildings. The integrated selftest function corresponds to the European standard.

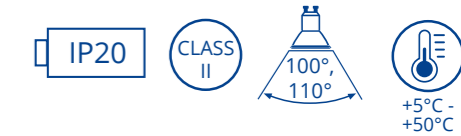


Features

- 3 h operating time
- Battery charging time 24 h
- Selftest as per IEC 62034
- Status display LED
- Easy 3-pole terminal connector (L,N,PE)
- Different lenses for emergency escape route lighting (elliptical)
- Simple recessed mounting of preinstalled luminaire and driver (ceiling min 5mm, max 20mm)
- Strain relief
- LiFePO4-batteries 3.2V-4.5Ah



LED Emergency Downlight Recessed



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Dimension (mm)	Beam angle (°)	Weight (kg)
LED Emergency Downlight Recessed – Static driver							
Emergency Downlight G1 TU 3 HL O Li N	93100228	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li N	93100229	3	165	6000	Ø60x83	110	0.233
Emergency Downlight G1 TU 3 HL O Li S	93100230	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li S	93100231	3	165	6000	Ø60x83	110	0.233
LED Emergency Downlight Recessed – DALI driver							
Emergency Downlight G1 TU 3 HL O Li D	93100232	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li D	93100233	3	165	6000	Ø60x83	110	0.233



LED INDOOR SOLUTION

Emergency solution



Public buildings



Factories



Hotel / Restaurant



Retail



Office

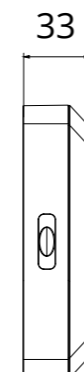
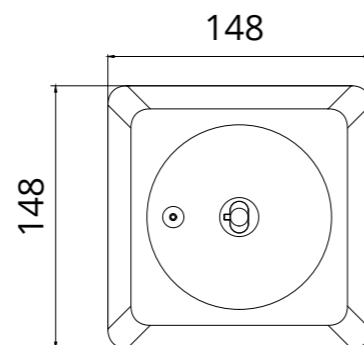
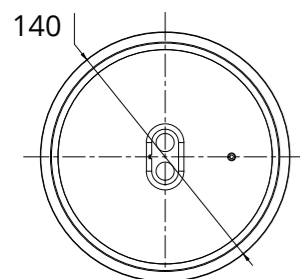
LED Emergency Downlight Surface Mount

Emergency DL range available in two different shapes with a simple and elegant design. The optically efficient lenses ensure optimum performance for corridor or open area applications. The products are available for surface mounting installation. The integrated selftest/DALI test function corresponds to the European standard.



Features

- More than 3 hours operation time in emergency situation
- Surface mount installation
- Selftest / DALI test function
- IK06
- CCT: 5000K
- High quality Samsung chips
- Long life: >78.000 hours



LED Emergency Downlight Surface Mount



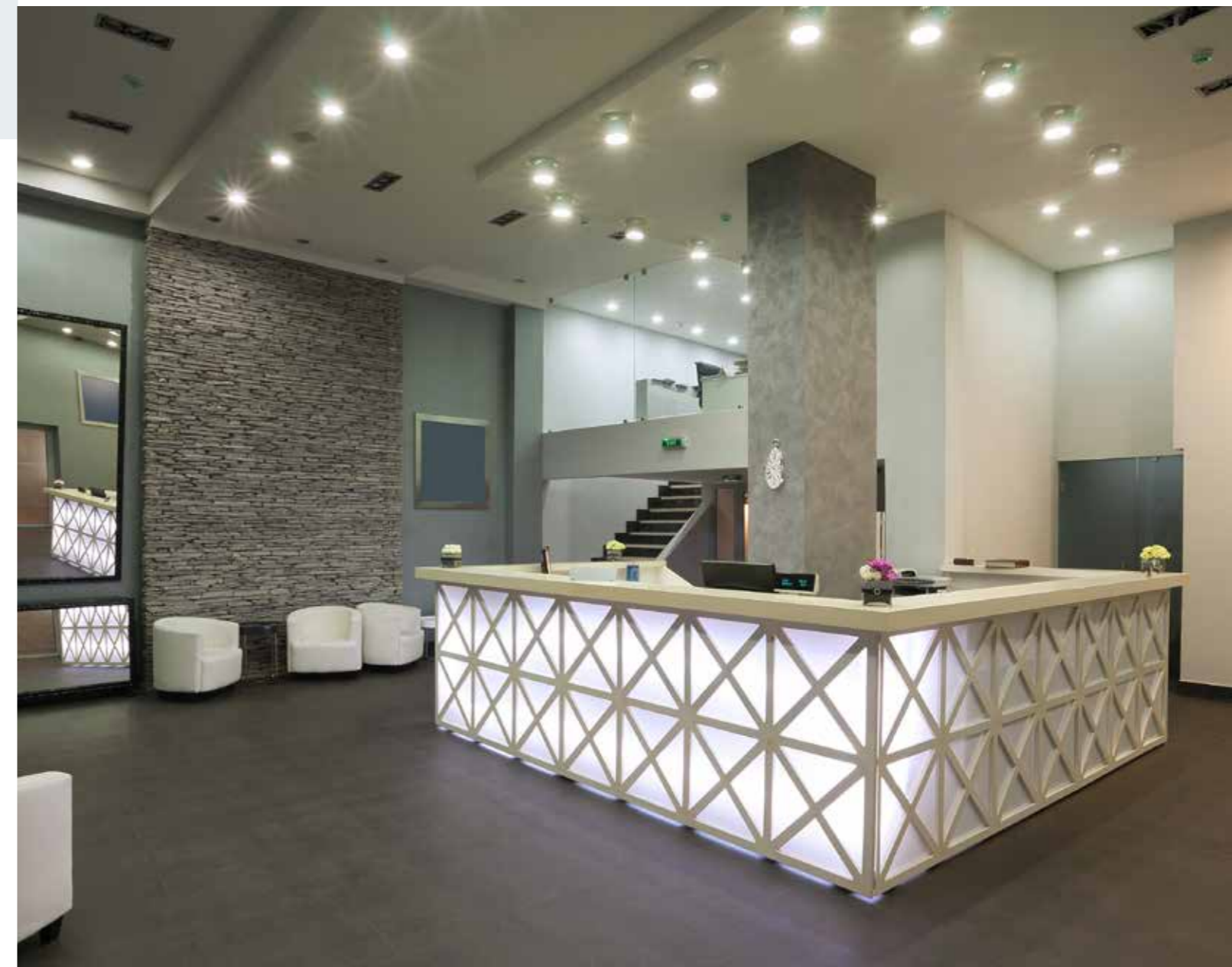
78.000h/
L80/B20
+0°C -
+45°C

Product Description

LED Emergency Downlight Surface Mount - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Dimension (mm)	Beam angle (°)	Weight (kg)
Emergency DL G1 TU 3W 3 Li DDT R R SM	3	220	5000	Ø140x48	148	0,3
Emergency DL G1 TU 3W 3 Li DDT O R SM	3	220	5000	Ø140x48	163/61	0,3
Emergency DL G1 TU 3W 3 Li SST R R SM	3	220	5000	Ø140x48	148	0,3
Emergency DL G1 TU 3W 3 Li SST O R SM	3	220	5000	Ø140x48	163/61	0,3
Emergency DL G1 TU 6W 3 Li SST R R SM	6	400	5000	Ø140x48	148	0,4
Emergency DL G1 TU 6W 3 Li SST O R SM	6	400	5000	Ø140x48	163/61	0,4
Emergency DL G1 TU 3W 3 Li SST R S SM	3	200	5000	148x148x33	148	0,3
Emergency DL G1 TU 3W 3 Li SST O S SM	3	200	5000	148x148x33	163/61	0,3

The range is available only from Q4 2021. For more information, please contact our customer service organization.



LED INDOOR SOLUTION

Emergency solution



Public buildings



Factories



Hotel / Restaurant



Retail



Office

LED Emergency Twin Spot

Emergency Twin Spot exit signs are available with two different lenses for different applications. The products are available for wall mounting installation. The integrated selftest function corresponds to the European standard.



Features

- More than 3 hours operation time in emergency situation
- Wall mount Installation
- Selftest function
- IK06
- CCT: 5000K
- High quality Samsung chips
- Long life: 78.000 hours

LED Emergency Twin Spot

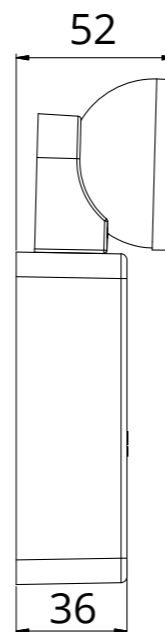
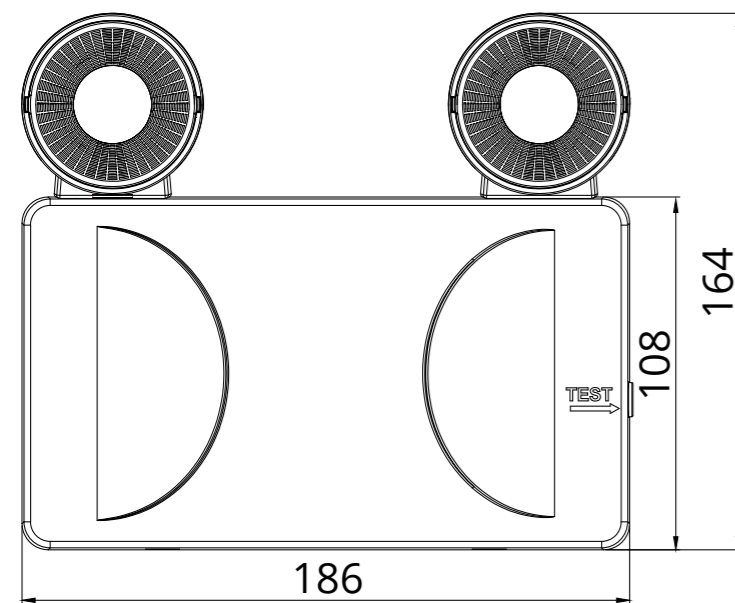


Product Description

LED Emergency Downlight Surface Mount - Static driver

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Dimension (mm)	Beam angle (°)	Weight (kg)
Emergency TW Spot G1 TU 6W 3 Li SST R WM	6	400	5000	186x52x164	148	0,4
Emergency TW Spot G1 TU 6W 3 Li SST O WM	6	400	5000	186x52x164	163/61	0,4

The range is available only from Q4 2021. For more information, please contact our customer service organization.



LED Indoor

LED INDOOR SOLUTION

Emergency solution



Healthcare



General lighting



Education



Retail



Office

LED Emergency Converter Kit

This emergency lighting unit is a conversion kit remote box for operating Tungsram LED luminaires in emergency mode. The conversion kit is suitable for converting existing light fittings to emergency operation. It provides a sensible solution when fitting dedicated emergency luminaires is not possible. It supports a variety of LED light sources offering standard, self-test, and DALI self-test. Compact polycarbonate case contains electronics and battery for external installation outside the luminaire for usage in protection class II luminaires.

LED Emergency Converter Kit



LED Indoor

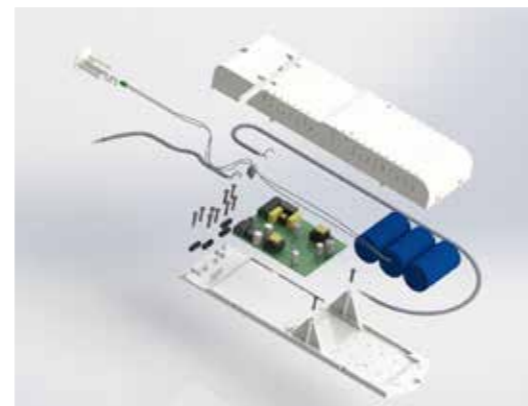
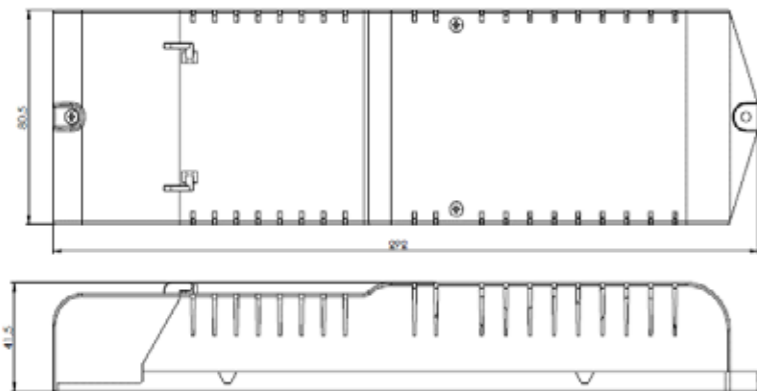
Product Description	Product Code	Wattage (W)	Lumen (lm)	Dimensions (mm)	Weight (kg)	Pack Qty
LED Emergency Converter Kit - Static driver						
Emergency Kit G1 TU 3 Li N	93100237	3	-	292x81x41	0.415	1
Emergency Kit G1 TU 3 Li S	93100238	3	-	292x81x41	0.415	1
LED Emergency Converter Kit - DALI driver						
Emergency Kit G1 TU 3 Li D	93100239	3	-	292x81x41	0.415	1



Benefits

- Constant power output in emergency mode
- Ground connection for LED-driver and LED module on main terminal
- Suitable for escape route lighting, back-up lighting and particularly hazardous workplaces
- Deep discharge protection
- Premium Lithium batteries (LiFePO4) - compared to lead acid batteries

- Premium Lithium batteries (LiFePO4) - compared to lead acid batteries - offer significant advantages:
 - **Safety and stability:** In case of hazardous events, such as collision or short-circuiting, this type of battery does not explode or catch fire, significantly reducing any chance of harm. It can reach 350°C to 500°C.
 - **Environmental Impact:** The batteries are non-toxic, non-contaminating, and contain no rare-earth metals, making them an environmentally conscious choice. Lead acid and nickel oxide lithium batteries, by comparison, carry significant environmental risk.
 - **Light weight:** The dimension of a battery of the same size is 2/3 of the size of a lead acid battery, and a third of the weight of a lead acid battery.
 - **Performance:** The batteries perform well in several areas, especially life span. Service life is usually 'least five to six years. Energy density is typically lower than certain counterparts, such as cobalt and nickel oxide. Battery charging time is also considerably reduced, another convenient performance perk.
 - **Improved discharge efficiency:** Ability to deep cycle while maintaining performance. The minimal maintenance and infrequent replacement makes lithium a worthwhile investment and smart long-term solution.



LED INDOOR SOLUTION

Emergency solution



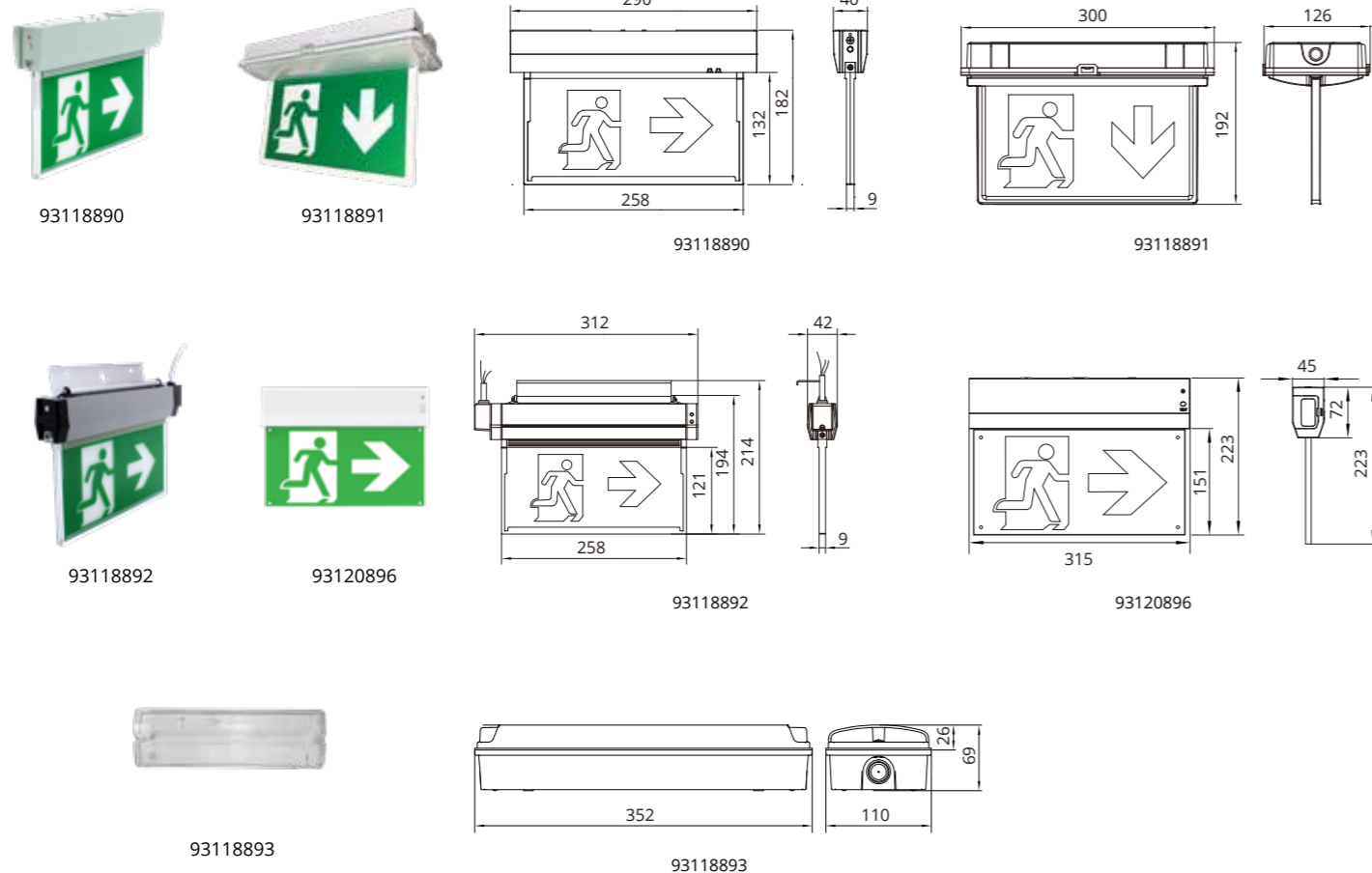
Emergency EXIT Signs

Tungram EXITs signs are a reliable but affordable solution in any project from public buildings to factory sites.



Benefits

- More than 3 hours operation time in emergency situation
- Recessed, Surface mount and wall mount Installation
- Maintained and Maintained/Non-maintained options to be chosen during installation (except SKU: 93118892)
- Long life: 50.000 hours
- Marker panels arrive with 4 replaceable signs: left, right and 2 down directions



Emergency EXIT Signs

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Rated life (h)	Self test	Battery type	IP	Mounting options
LED Emergency Exit signs - Static driver									
Emergency Exit G1 TU 3 LI S SM	93118890	5,5	NA	6500	50 000	Yes	LiFePO4	IP40	Ceiling
Emergency Exit G1 TU 3 LI S RM	93118891	5,5	50	6500	50 000	Yes	LiFePO4	IP65	Recessed
Emergency Exit G1 TU 3 LI S WM	93118892	5,5	NA	6500	50 000	Yes	LiFePO4	IP40	Ceiling or wall
Emergency Bulkhead G1 TU 3 LI S WM	93118893	5	150	6500	50 000	No	Ni-Cd	IP65	Surface
Emergency Exit Suspension Kit	93118865								
LED Emergency Exit signs - DALI driver									
Emergency Exit G1 TU 3 LI DST SM	93120896	3	NA	5000	>78 000	Yes	LiFePO4	IP20	Surface mount

Emergency Exit sign with DALI driver is only available from December. For further information please contact our customer service organization.





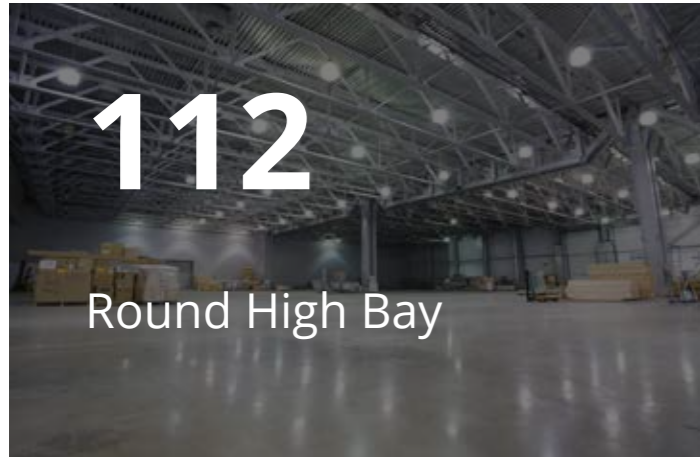
INDUSTRIAL SOLUTIONS

Light affects how we perform at work and how we perceive the professional environment around us. Selecting the optimal light for industrial facilities impacts not only trivial practicalities such as accident prevention but also our coworkers' psychological state.

Our range of industrial products helps you take full advantage of the safety and cost-cutting opportunities presented by today's advanced LED lighting systems. In typical cases of facilities, 20% of all electric costs are due to their lighting. We offer an opportunity to reduce these costs significantly, with a marginal investment. Get to know more about lighting opportunities that can help you reconsider and reduce your costs while establishing a better place for quality work to happen.

LED INDUSTRIAL SOLUTION

Content



Round High-bay



Round High-bay with HoneyComb



HB IP20 High Efficiency & NEDAP Node



AURISO



HB IP66



HB IP66 NEDAP Node



Linear High Bay



Exproof Easylight 

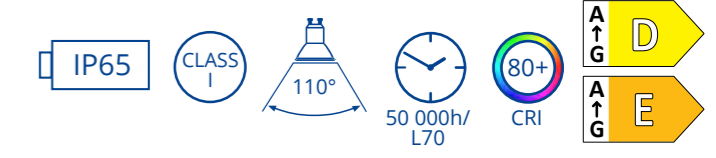
LED INDUSTRIAL SOLUTION

Round High Bay



LED Round High Bay IP65 G1

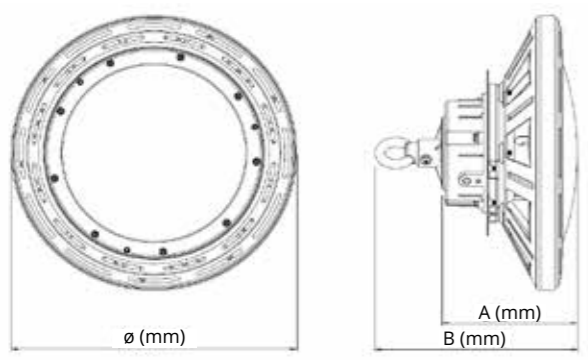
LED Round High Bay IP65 G1



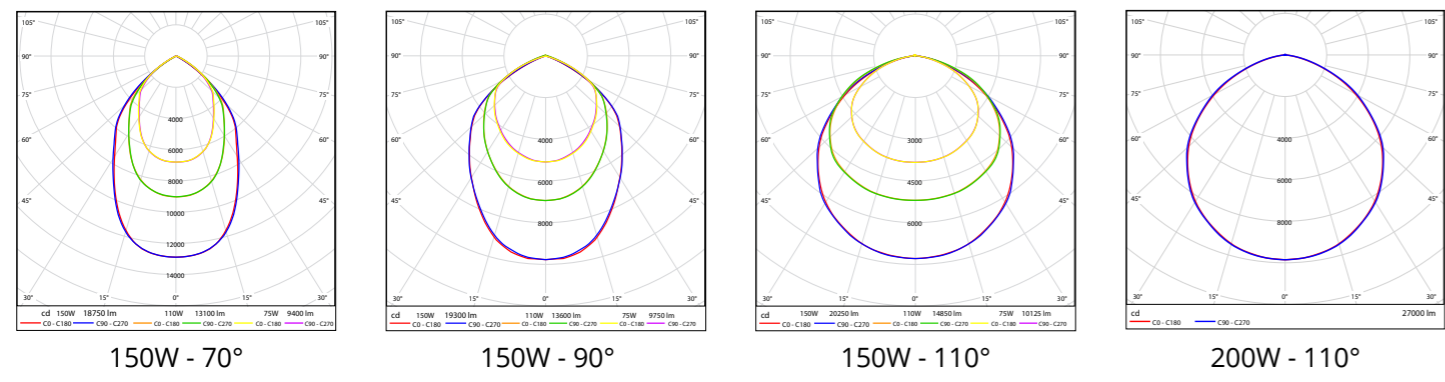
The Tungram Round High Bay G1 range has a massive industrial aesthetic that makes it suitable for applications in a facility that has high ceilings and requires illumination of six meter or more. It is designed as a simple point-to-point replacement for conventional high-bay luminaires with 250 and 400 W mercury vapor or metal halide lamps. The 4-5x longer lifetime vs HID lamps provides significant reduction in maintenance costs without the use of mercury and other hazardous materials. Its light flow can be dimmed from 0-10V or DALI, allowing us to adjust the brightness of the light emitted, in function with the needs of each moment.

Benefits

- The luminaire can be installed on the existing grid.
- Optimized weight and size due to compact design
- High resistance against ambient air with humidity and high-particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector
- Aluminium body to optimize heat performance



Product	Wattage	ø (mm)	A (mm)	B (mm)
High Bay TU Gen1 70W	70w	300	142	213
High Bay TU Gen1 105W	105w	300	142	213
High Bay TU Gen1 140W	140w	300	131	202
High Bay TU Gen1 150W	150w	300	131	202
High Bay TU Gen1 200W	200w	360	131	202



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Pack Qty	EEC
Round High Bay IP65 Gen1 - 0-10V driver									
High Bay TU Gen1 70W 4000K 2A 110°	93115795	70	10150	4000	145	Ø300x213	2.43	1	D
High Bay TU Gen1 70W 6500K 2A 110°	93115796	70	10150	6500	145	Ø300x213	2.43	1	D
High Bay TU Gen1 105W 4000K 2A 110°	93115793	105	15225	4000	145	Ø300x213	2.43	1	D
High Bay TU Gen1 105W 6500K 2A 110°	93115797	105	15225	6500	145	Ø300x213	2.43	1	D
High Bay TU Gen1 140W 4000K 2A 110°	93115794	140	20300	4000	145	Ø302x213	2.5	1	D
High Bay TU Gen1 140W 6500K 2A 110°	93115798	140	20300	6500	145	Ø302x213	2.5	1	D
High Bay TU Gen1B 200W 4000K 2A 110°	93121457	200	29000	4000	145	Ø360x207	3.04	1	E
High Bay TU Gen1B 200W 6500K 2A 110°	93121459	200	29000	6500	145	Ø360x207	3.04	1	E
Round High Bay IP65 Gen1 - DALI driver									
High Bay TU Gen1B 150W 4000K 2D 110	93121456	150	22500	4000	150	Ø302x213	2.5	1	E
High Bay TU Gen1B 200W 4000K 2D 110°	93121458	200	29000	4000	145	Ø360x207	3.04	1	E
Round High Bay IP65 Gen1 - Static driver ONLY FOR MEA									
High Bay TU Gen1B 120W 840 2S 110° 52	93121453	120	16200	4000	135	Ø250x180	2.3	1	-
High Bay TU Gen1B 150W 840 2S 110° 52	93121454	150	20250	4000	135	Ø280x195	2.7	1	-
High Bay TU Gen1B 200W 840 2S 110° 52	93121455	200	27000	4000	135	Ø280x195	3	1	-
LED Round High Bay IP65 Accessories									
High Bay Chain	93105658	-	-	-	-	-	-	-	-
High Bay Reflector 90°	93105659	-	-	-	-	-	-	-	-
High Bay Reflector 70°	93105660	-	-	-	-	-	-	-	-
High Bay Reflector 90° 200W	93111515	-	-	-	-	-	-	-	-
High Bay Reflector 70° 200W	93112596	-	-	-	-	-	-	-	-
High Bay Surface mount Kit	93105661	-	-	-	-	-	-	-	-



LED INDUSTRIAL SOLUTION

Round High Bay



Warehouses



Retail

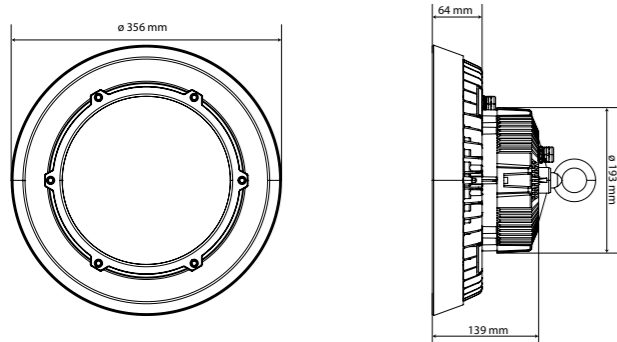
Round High Bay IP65 G2 HoneyComb

The IP65 Round High Bay with HoneyComb® optic is designed to replace traditional high ceiling fixture applications. The HoneyComb®, optic together with the specially designed housing frame, provides a dual anti-glare and more comfortable UGR level in all industrial areas (<UGR22, RG0). The lower glare means a more comfortable light for your working environment while the efficacy is above 135lm/W, which provides additional savings. The robust design offers a long lifetime solution for all applications.



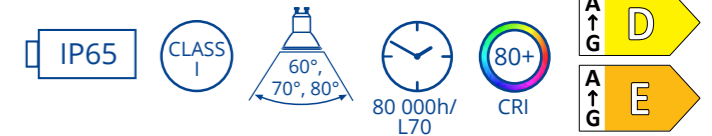
Benefits

- Designed for replacement of conventional high-bays with HID lamps up to 400W
- High luminous efficiency and energy savings up to 70% compared to conventional high bay fixtures
- An affordable solution for retrofit or new installations
- Different accessories for available for versatile installation: suspension chain or metal bracket
- Installation height is up to 20m



Model	Wattage	Fixture diameter (mm)	Fixture height incl driver and hook (mm)	Weight incl driver (kg)	Driver size (mm)	Control
High Bay TU Gen2 90Wxxx	90W	280	190	2.66	Ø132*71	DALI
High Bay TU Gen2 100Wxxx	100W	280	190	2.66	Ø132*71	Static/1-10V/Sensor
High Bay TU Gen2 140Wxxx	140W	360	210	3.08	Ø151*71	DALI
High Bay TU Gen2 150Wxxx	150W	360	210	3.08	Ø151*71	DALI
High Bay TU Gen2 190Wxxx	200W	360	210	5.50	Ø182*71	Static/1-10V/Sensor
High Bay TU Gen2 200Wxxx	230W	360	210	5.50	Ø182*71	DALI

Round High Bay IP65 G2 HoneyComb



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	UGR	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Pack Qty	EEC
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Round High Bay IP65 Gen2 HoneyComb - Static driver

High Bay TU Gen2 100W-4000K-2S-70°	93114906	100	13 500	4000	70	<23.2	135	Ø280x190	2.66	1	D
High Bay TU Gen2 100W-4000K-2M-70° *	93114908	100	13 500	4000	70	<22.7	135	Ø280x190	2.66	1	D
High Bay TU Gen2 100W-5000K-2S-70°	93114910	100	13 500	5000	70	<23	135	Ø280x190	2.66	1	D
High Bay TU Gen2 100W-5000K-2M-70° *	93114912	100	13 500	5000	70	<23.1	135	Ø280x190	2.66	1	D
High Bay TU Gen2 140W-4000K-2S-80°	93114914	140	18 900	4000	80	<25.2	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-4000K-2S-60°	93114915	140	18 900	4000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 140W-4000K-2M-80° *	93114918	140	18 900	4000	80	<24.7	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-4000K-2M-60° *	93114919	140	18 900	4000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 140W-5000K-2S-80°	93114922	140	18 900	5000	80	<24.8	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-5000K-2S-60°	93114923	140	18 900	5000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 140W-5000K-2M-80° *	93114926	140	18 900	5000	80	<24.7	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-5000K-2M-60° *	93114927	140	18 900	5000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 190W-4000K-2S-80°	93114930	190	24 700	4000	80	<25.6	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-4000K-2S-60°	93114931	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1	D
High Bay TU Gen2 190W-4000K-2M-80° *	93114934	190	24 700	4000	80	<26	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-4000K-2M-60° *	93114935	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1	D
High Bay TU Gen2 190W-5000K-2S-80°	93114938	190	24 700	5000	80	<25.6	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-5000K-2S-60°	93114939	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1	D
High Bay TU Gen2 190W-5000K-2M-80° *	93114942	190	24 700	5000	80	<26	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-5000K-2M-60° *	93114943	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1	D

Round High Bay IP65 Gen2 HoneyComb - 1-10V driver

High Bay TU Gen2 100W-4000K-2A-70°	93114907	100	13 500	4000	70	<23.5	135	Ø280x190	2.66	1	D
High Bay TU Gen2 100W-5000K-2A-70°	93114911	100	13 500	5000	70	<23.5	135	Ø280x190	2.66	1	D
High Bay TU Gen2 140W-4000K-2A-80°	93114916	140	18 900	4000	80	<25.2	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-4000K-2A-60°	93114917	140	18 900	4000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 140W-5000K-2A-80°	93114924	140	18 900	5000	80	<25.2	135	Ø360x210	3.08	1	E
High Bay TU Gen2 140W-5000K-2A-60°	93114925	140	18 900	5000	60	<21	135	Ø360x210	3.08	1	D
High Bay TU Gen2 190W-4000K-2A-80°	93114932	190	24 700	4000	80	<26	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-4000K-2A-60°	93114933	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1	D
High Bay TU Gen2 190W-5000K-2A-80°	93114940	190	24 700	5000	80	<26	130	Ø360x210	5.50	1	E
High Bay TU Gen2 190W-5000K-2A-60°	93114941	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1	D

Round High Bay IP65 Gen2 HoneyComb - DALI driver

High Bay TU Gen2 90W-4000K-2D-70°	93114909	90	12 150	4000	70	<22.5	135	Ø280x190	2.66	1	D
High Bay TU Gen2 90W-5000K-2D-70°	93114913	90	12 150	5000	70	<22.5	135	Ø280x190	2.66	1	D
High Bay TU Gen2 150W-4000K-2D-80°	93114920	150	19 500	4000	80	<25.2	130	Ø360x210	3.08	1	E
High Bay TU Gen2 150W-4000K-2D-60°	93114921	150	19 500	4000	60	<21.2	130	Ø360x210	3.08	1	E
High Bay TU Gen2 150W-5000K-2D-80°	93114928	150	19 500	5000	80	<25.2	130	Ø360x210	3.08	1	E
High Bay TU Gen2 150W-5000K-2D-60°	93114929	150	19 500	5000	60	<21.1	130	Ø360x210	3.08	1	E
High Bay TU Gen2 230W-4000K-2D-80°	93114936	230	28 750	4000	80	<25.8	125	Ø360x210	5.50	1	E
High Bay TU Gen2 230W-4000K-2D-60°	93114937	230	28 750	4000	60	<22.6	125	Ø360x210	5.50	1	D
High Bay TU Gen2 230W-5000K-2D-80°	93114944	230	28 750	5000	80	<25.8	125	Ø360x210	5.50	1	E
High Bay TU Gen2 230W-5000K-2D-60°	93114945	230	28 750	5000	60	<22.6	125	Ø360x210	5.50	1	D

Round High Bay IP65 Gen2 HoneyComb Accessories

High Bay TU Gen2 Bracket for 280	93115197	-	-	-	-	-	-	-	-	1	-
High Bay TU Gen2 Bracket for 360	93115198	-	-	-	-	-	-	-	-	1	-
High Bay TU Gen2 Remote Control	93115198	-	-	-	-	-	-	-	-	1	-

* With Motion sensor

LED INDUSTRIAL SOLUTION

High Bay Rectangular



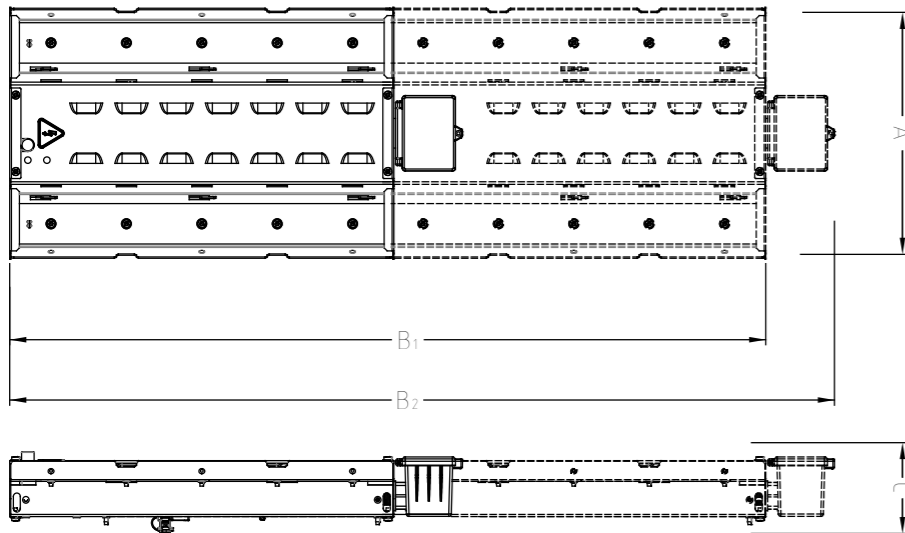
AURISO



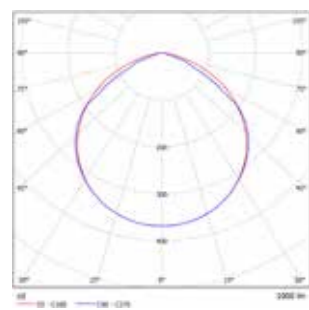
The new Tunsgsam High Bay LED luminaire is an exceptional mixture of value and performance. The standard efficacy product range has been upgraded to reach up to 163 lm/w and cover lumen packages between 10,000 – 60,000 lumens in 5,000 steps. More combinations to choose from. The range includes no control and DALI versions and also several sensor options: SN (motion), RFM (daylight harvesting), RFS (can be controlled by the RFM). This solution is ideal for grouping luminaires. With the improved efficacy, wide range of control options and higher lumen output, the Auriso is an ideal choice to replace high watt HID and T5/T8 LFL fixtures in high bay and low bay applications, in industrial and commercial buildings.

Benefits

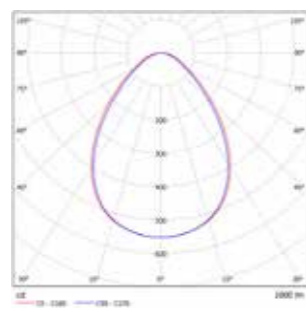
- Aluminum housing
- Housing is available in two different sizes, defined by lumen packages
- Various mounting options: Y-cable or bracket mounting.
- System power factor is >0,95 and THD <15%
- IP50 protection level for the optical compartment for all lenses 35, 45, 65, 70 and 90 degree optics are dust protected.
- IK10 protected level for Fix output and DALI versions
- IK08 for sensor types
- TU HB Series optical system enables LEDs to provide optimized illumination for open floor and racked aisles with photometric distributions of 35, 45, 65, 70, 80, 90, 100 and 110 degrees.



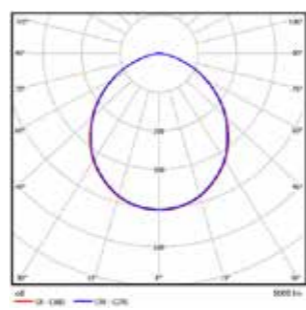
	10-30	35-60	kLM
		250	A
FX • DL • RFS	382	752	B ¹
SN • RFM	450	820	B ²
FX • DL • SN • RFM		75	C
RFS		80	



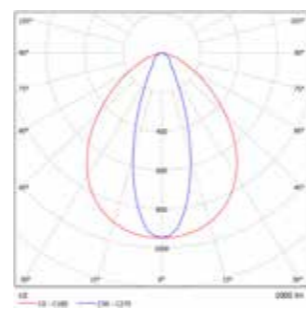
C1 - 110° Clear



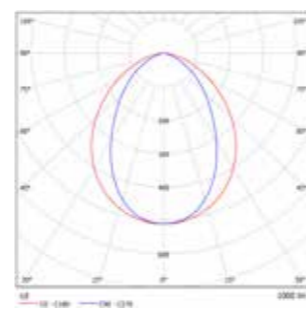
U8 - 80°



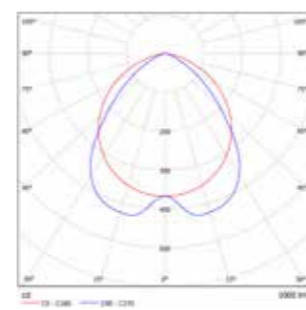
D1 - 100° Diffuse



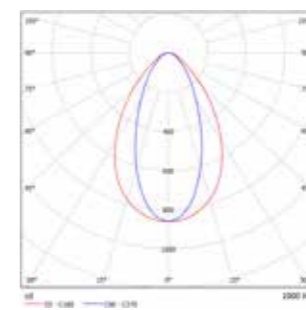
L3 - 35°



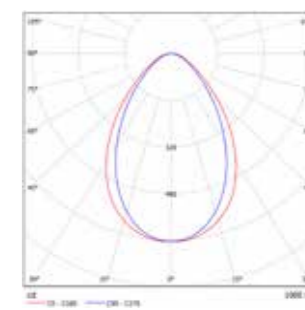
L6 - 70°



L9 - 90°



U4 - 45°



U6 - 65°

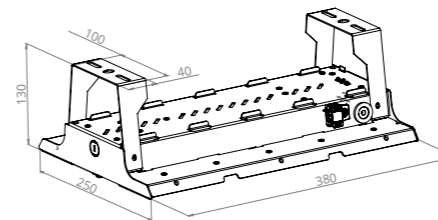
AURISO



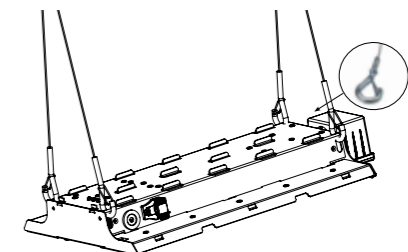
Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Control	Option	Precable	Color
TU High bay - Standard Efficiency							
AUR	1S10 - 1M Std 10klm 1S15 - 1M Std 15klm 1S20 - 1M Std 20klm 1S25 - 1M Std 25klm 1S30 - 1M Std 30klm 2S35 - 2M Std 35klm 2S40 - 2M Std 40klm 2S45 - 2M Std 45klm 2S50 - 2M Std 50klm 2S55 - 2M Std 55klm 2S60 - 2M Std 60klm	730 - 3000K CRI70 740 - 4000K CRI70 750 - 5000K CRI70 830 - 3000K CRI80 840 - 4000K CRI80 850 - 5000K CRI80	C1 - 110° Clear D1 - 100° Diffuse L3 - 35° L6 - 70° L9 - 90° U4 - 45° U6 - 65° U8 - 80°	FX - Fix output DL - DALI SN - Sensor (On / Off) RFM - RF Master RFS - RF Slave (On/Off)	ST - (non emergency)	PXX*	R7021NB XXXXXXX

* 1-10 m long precable is available
Module length is predefined by lumen package and not a selectable option.

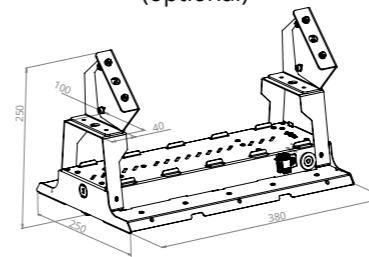
MOUNTING



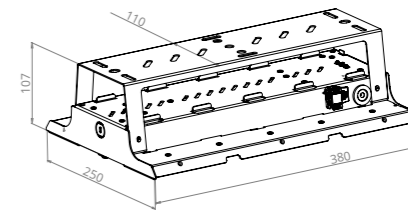
Rod Mount (optional)



Y-Cable w/hook (optional)



Tilted bracket kit



Busbar bracket kit (optional)

LED INDUSTRIAL SOLUTION

High Bay Rectangular



High Bay IP20 - High Efficiency

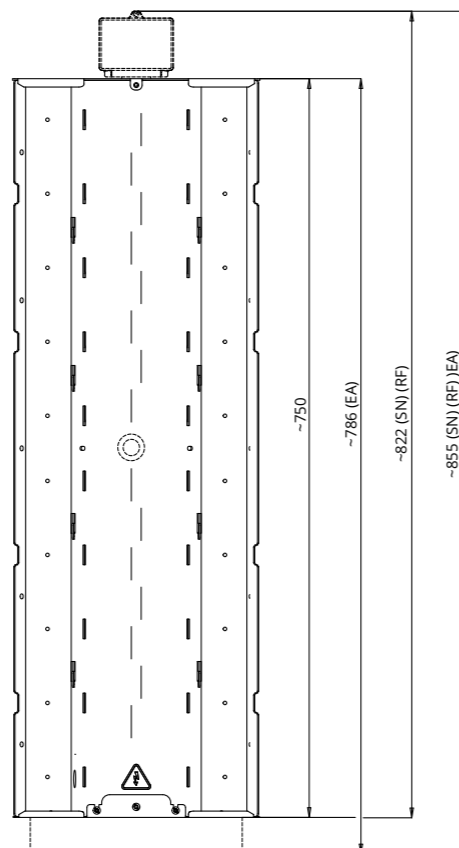
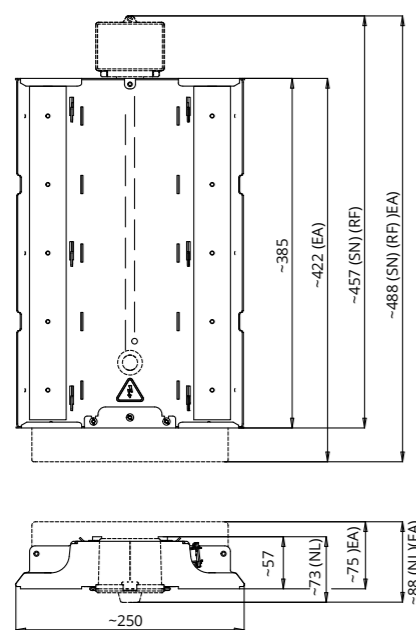


The new Tungsram High Bay LED luminaire is an exceptional mixture of value and performance. The product range has been upgraded to reach very high efficacy- up to 177 lm/w and cover lumen packages between 10,000 - 45,000 lumens. The range includes DALI and RF sensor versions, and Nedap Luxon IoT Node, to enable internet connection and wireless control of the luminaire range. With the improved efficacy, wide range of control options, and higher lumen output, the HB IP20 is an ideal choice to replace high-watt HID and T5/T8 LFL fixtures in high bay and low bay applications, in industrial and commercial buildings.



Benefits

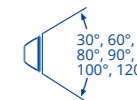
- Combination of steel and aluminium housing
- HB IP20 Series' design accommodates 1 or 2 modules with 2 LED units per module
- Various mounting options: Cable or threaded rod kit.
- System power factor is >90% and THD <20%
- IP50 protection level for the optical compartment for all lenses - 30, 60 and 90 degree optics are dust protected.
- IK08 protection level for DALI versions.
- IK02 for sensor types, IK03 for Emergency version.
- TU HB Series optical system enables LEDs to provide optimized illumination for open floor and racked aisles with photometric distributions of 30, 60, 80, 90, 100 and 120 degrees.



High Bay IP20
High Efficiency

IP20

IK08/IK02



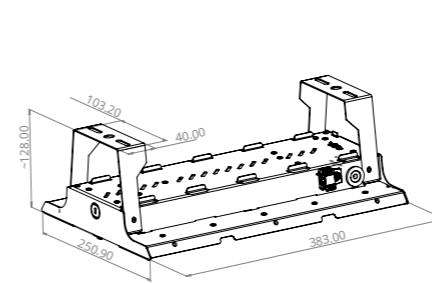
CE

LED Industrial

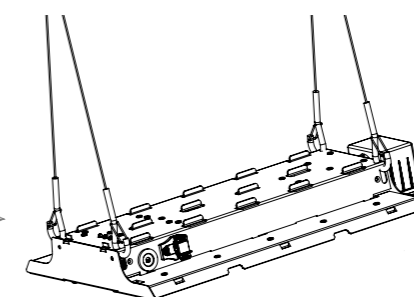
TU High bay IP20 - High efficiency

Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Control	Options ¹
TU HB IP20 G1	1H10 - 1M High 10klm	4K-4000K 70 CRI70	C1-120° Clear	DL-DALI RF-RF sensor (Motion and Lux) NL-Nedap Luxon	ST-Standard EA-EM auto-test
	1H15 - 1M High 15klm		D1-100° Diffuse		
	1H20 - 1M High 20klm	5K-5000K 70 CRI70	U1 - 80° Diffuse		
	1H25 - 1M High 25klm	4K-4000K 80 CRI80	L9-90° Clear		
	2H30 - 2M High 30klm	5K-5000K 80 CRI80	L6-60° Clear		
	2H45 - 2M High 45klm		L3-30° Clear		

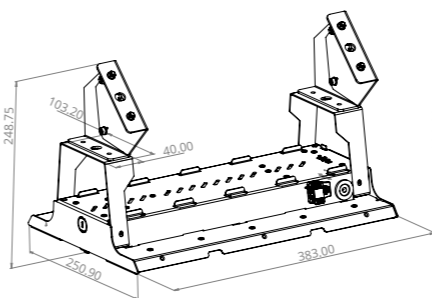
MOUNTING



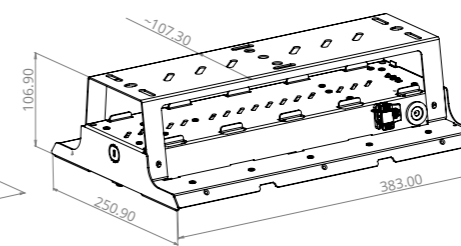
Rod Mount (optional)



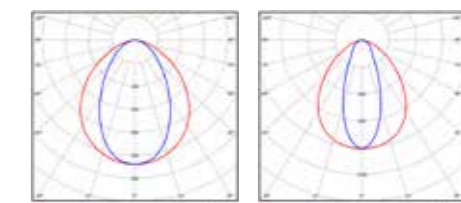
Y-Cable w/hook (optional)



Tilted bracket kit

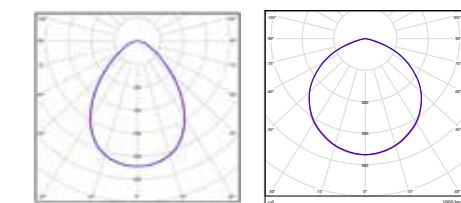


Busbar bracket kit (optional)



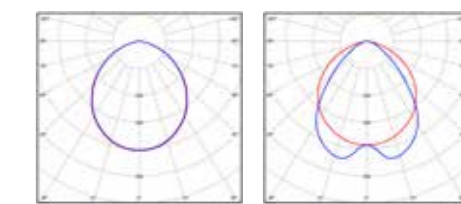
L6

L3



U1

C1



D1

L9

LED INDUSTRIAL SOLUTION

High Bay Rectangular

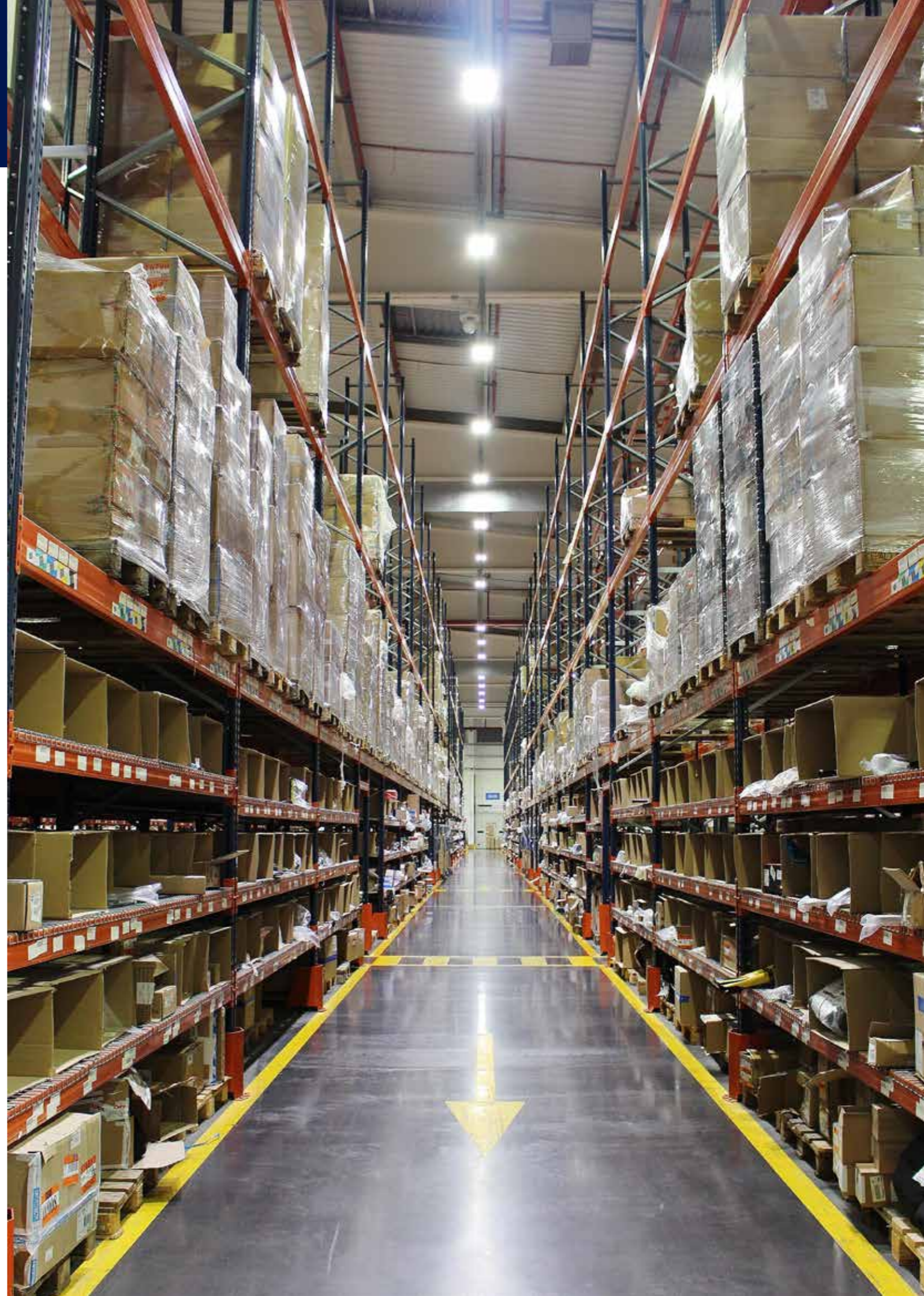
High Bay IP20 - High Efficiency

	w	4000 K				5000 K				L80B50 25°C *	Regulatory Mark	
		70 CRI		80 CRI		70 CRI		80 CRI				
		LM	LM/W	LM	LM/W	LM	LM/W	LM	LM/W	Lumen maintenance		
Dimmable Output (DL)												
- DL	1H10	56	9500	170	9400	168	9900	177	9500	170	116000	CE/ENEC
- DL	1H15	86	14400	167	14200	165	15000	174	14400	167	116000	CE
- DL	1H20	116	18700	161	18500	159	19500	168	18700	161	116000	CE/ENEC
- DL	1H25	155	24000	155	23700	153	25000	162	24000	155	88000	CE
- DL	2H30	170	28000	165	27700	163	29200	172	28000	165	116000	CE/ENEC
- DL	2H45	272	43300	159	42900	158	45200	166	43300	159	94000	CE
Radio Frequency Sensor (RF)												
- RF	1H10	58	9500	165	9400	163	9900	172	9500	165	116000	CE/ENEC
- RF	1H15	88	14400	164	14200	162	15000	171	14400	164	116000	CE
- RF	1H20	118	18700	159	18500	157	19500	166	18700	159	105000	CE/ENEC
- RF	1H25	156	24000	154	23700	152	25000	160	24000	154	88000	CE
- RF	2H30	172	28000	163	27700	161	29200	170	28000	163	116000	CE/ENEC
- RF	2H45	274	43300	158	42900	157	45200	165	43300	158	94000	CE
Nedap IoT (NL)												
NL -	1H10	57	9500	167	9400	165	9900	174	9500	167	116000	CE/ENEC
NL -	1H15	87	14400	166	14200	163	15000	172	14400	166	116000	CE
NL -	1H20	117	18700	160	18500	158	19500	167	18700	160	106000	CE/ENEC
NL -	1H25	156	24000	154	23700	152	25000	161	24000	154	90000	CE
NL -	2H30	171	28000	164	27700	162	29200	171	28000	164	116000	CE/ENEC
NL -	2H45	273	43300	159	42900	157	45200	166	43300	159	93000	CE
Emergency (EA)												
- DL	1H20	120	18700	156	18500	154	19500	163	18700	156	106000	CE
- RF	1H20	159	24000	151	23700	149	25000	158	24000	151	88000	CE
- DL	1H25	122	18700	154	18500	152	19500	160	18700	154	105000	CE
- RF	1H25	160	24000	150	23700	148	25000	156	24000	150	88000	CE
NL -	1H25	160	24000	150	23700	148	25000	157	24000	150	90000	CE

Our products are in compliance with IEC 60598-2-1:1979+A1:1987 used in conjunction with IEC 60598-1:2014.
* 1H25, 2H30, has two drivers and DALI versions have two DALI addresses.

Optical multipliers**

C1	100%
D1	90%
U1	94%
L9	100%
L6	97%
L3	98%



LED INDUSTRIAL SOLUTION

High Bay Rectangular



High Bay IP66



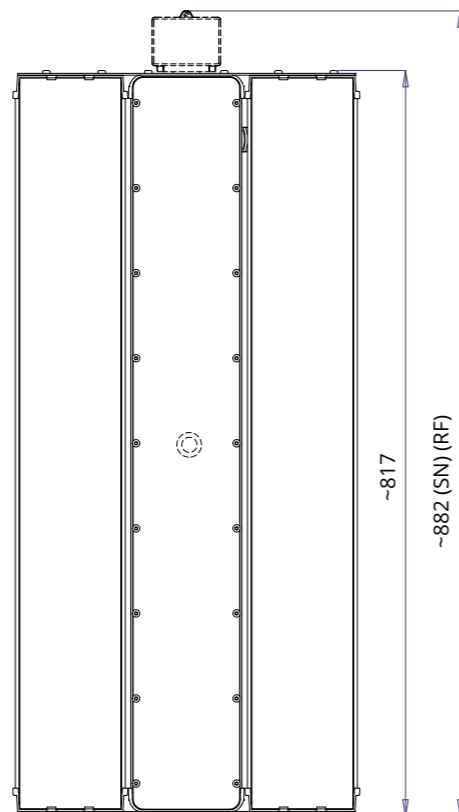
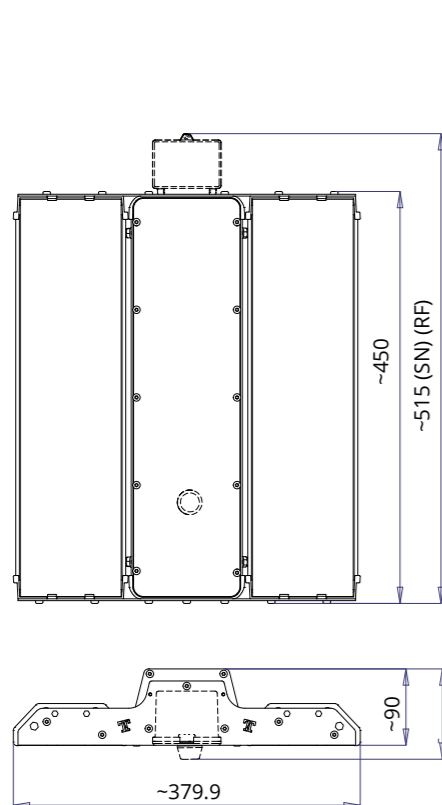
This IP66 rated LED fixture range offers an exceptional mixture of value and performance for high bay applications requiring water and dust resistance. This range has been upgraded to reach a very high efficacy- up to 182 lm/W with high lumen packages from 10,000lm to 45,000 lumens.

The range includes a wide variety of alternatives for color temperature, color rendering, beam angle and control systems, for to best optimized customer solutions. DALI, IoT and various sensor versions offer modern solutions for any lighting project. Designed to replace high-watt HID and T5/T8 LFL light sources.



Benefits

- Direct replacement for compact fluorescent lamp downlights
- Up to 70% energy savings compared to HID lamps
- Affordable solution for retrofit or new installations
- Easy installation
- UV-free & IR-free
- Product height with driver (90mm) fits more ceiling types



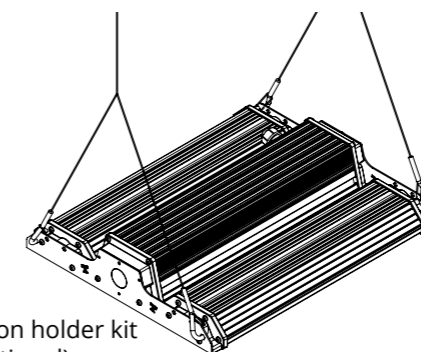
High Bay IP66



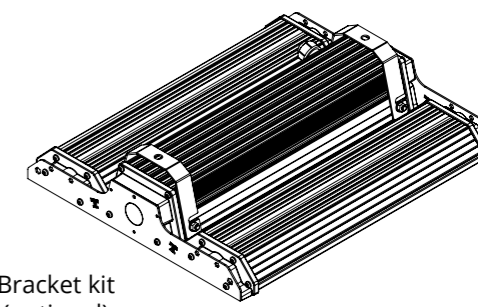
LED Industrial

Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Sensor - Control	Options 1	Options 2
TU High Bay IP66 - Standard						
TU HB IP66 G1	1S10 - 1M Std 10klm	4K - 4000K 70 CRI70	C1-120° Clear	FX- Fix output DL- DALI	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1S20 - 1M Std 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	1S30 - 1M Std 30klm	4K - 4000K 80 CRI80 5K - 5000K 80 CRI80	L6-60° Clear L3-30° Clear			
TU High Bay IP65 - Standard						
TUHB IP65 G1	1S10 - 1M Std 10klm	4K - 4000K 70 CRI70	C1-120° Clear	SN- Sensor(ON/OFF) RF- Sensor(Motion&Lux)	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1S20 - 1M Std 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	1S30 - 1M Std 30klm	4K - 4000K 80 CRI80 5K - 5000K 80 CRI80	L6-60° Clear L3-30° Clear			
TU High Bay IP66 - High Efficiency						
TUHB IP66 G1	1H10 - 1M High 10klm	4K - 4000K 70 CRI70	C1-120° Clear	DL- DALI	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1H20 - 1M High 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	2H30 - 2M High 30klm	4K - 4000K 80 CRI80	L6-60° Clear			
	2H45 - 2M High 30klm	5K - 5000K 80 CRI80	L3-30° Clear			
TU High Bay IP65 - High Efficiency						
TUHB IP65 G1	1H10 - 1M High 10klm	4K - 4000K 70 CRI70	C1-120° Clear	RF- Sensor(Mo- tion&Lux)	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1H20 - 1M High 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	2H30 - 2M High 45klm	4K - 4000K 80 CRI80	L6-60° Clear			
	2H45 - 2M High 45klm	5K - 5000K 80 CRI80	L3-30° Clear			

MOUNTING



Suspension holder kit (optional)



Bracket kit (optional)

LED INDUSTRIAL SOLUTION

High Bay Rectangular

High Bay IP66

		4000 K				5000 K				L80B50		Regulatory Mark	
		70 CRI		80 CRI		70 CRI		80 CRI		25°C *	Lumen maintenance		
W		LM	LM/W	LM	LM/W	LM	LM/W	LM	LM/W				
Constant Output (FX) & Dimmable Output (DL) - IP66													
FX	DL	1S10	67	9590	143	9490	142	9997	149	9590	143	259000	CE, ENEC
FX	DL	1S20	141	19770	140	19570	139	20600	146	19770	140	197000	CE, ENEC
FX	DL	1S30	199	28030	141	27740	139	29200	147	28030	141	117000	CE, ENEC
-	DL	1H10	56	9790	175	9690	173	10200	182	9790	175	115000	CE, ENEC
-	DL	1H20	116	19390	167	19190	165	20200	174	19390	167	100000	CE, ENEC
-	DL	2H30	170	28990	171	28690	169	30200	178	28990	171	105000	CE, ENEC
-	DL	2H45	261	42330	162	41890	160	44100	169	42330	162	116000	CE, ENEC
Motion Sensor (SN) & Radio Frequency Sensor (RF) - IP65													
SN	RF	1S10	69	9590	140	9490	138	9997	146	9590	140	259000	CE, ENEC
SN	RF	1S20	143	19770	139	19570	137	20600	144	19770	139	197000	CE, ENEC
SN	RF	1S30	201	28030	140	27740	138	29200	145	28030	140	117000	CE, ENEC
-	RF	1H10	58	9790	170	9690	168	10200	177	9790	170	115000	CE, ENEC
-	RF	1H20	118	19390	165	19190	163	20200	172	19390	165	100000	CE, ENEC
-	RF	2H30	172	28990	169	28690	167	30200	176	28990	169	105000	CE, ENEC
-	RF	2H45	263	42330	161	41890	159	44100	168	42330	161	116000	CE, ENEC
Nedap IoT (NL) - IP66													
NL		1H10	57	9790	172	9690	170	10200	179	9790	172	115000	CE, ENEC
NL		1H20	117	19390	166	19190	164	20200	173	19390	166	100000	CE, ENEC
NL		2H30	171	28990	170	28690	168	30200	177	28990	170	105000	CE, ENEC
NL		2H45	261	42330	162	41890	160	44100	169	42330	162	116000	CE, ENEC

Optical multipliers**

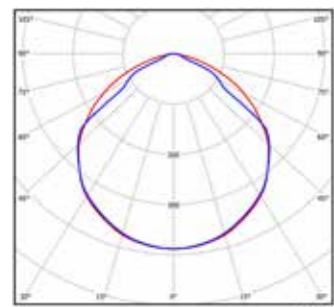
C1	100%
L9	92,5%
L6	90,0%
L3	90,0%

* IK03 protection level for Emergency version

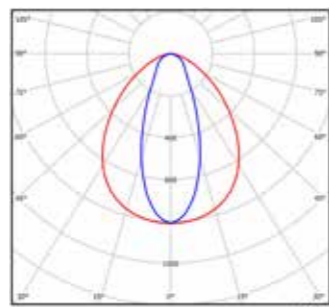
** Fixed output and sensor versions could have slightly different values.

Our products are in compliance with IEC 60598-2-1:1979 + A1 1987 used in conjunction with IEC 60598-1:2014. Emergency version is expected in Q1 2020

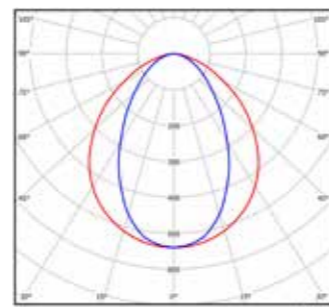
*** 1S30, 2H30 and 2H45 has 2 drivers, DALI versions have 2 DALI addresses



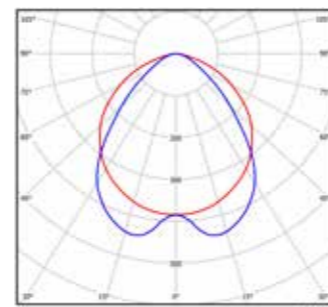
C1



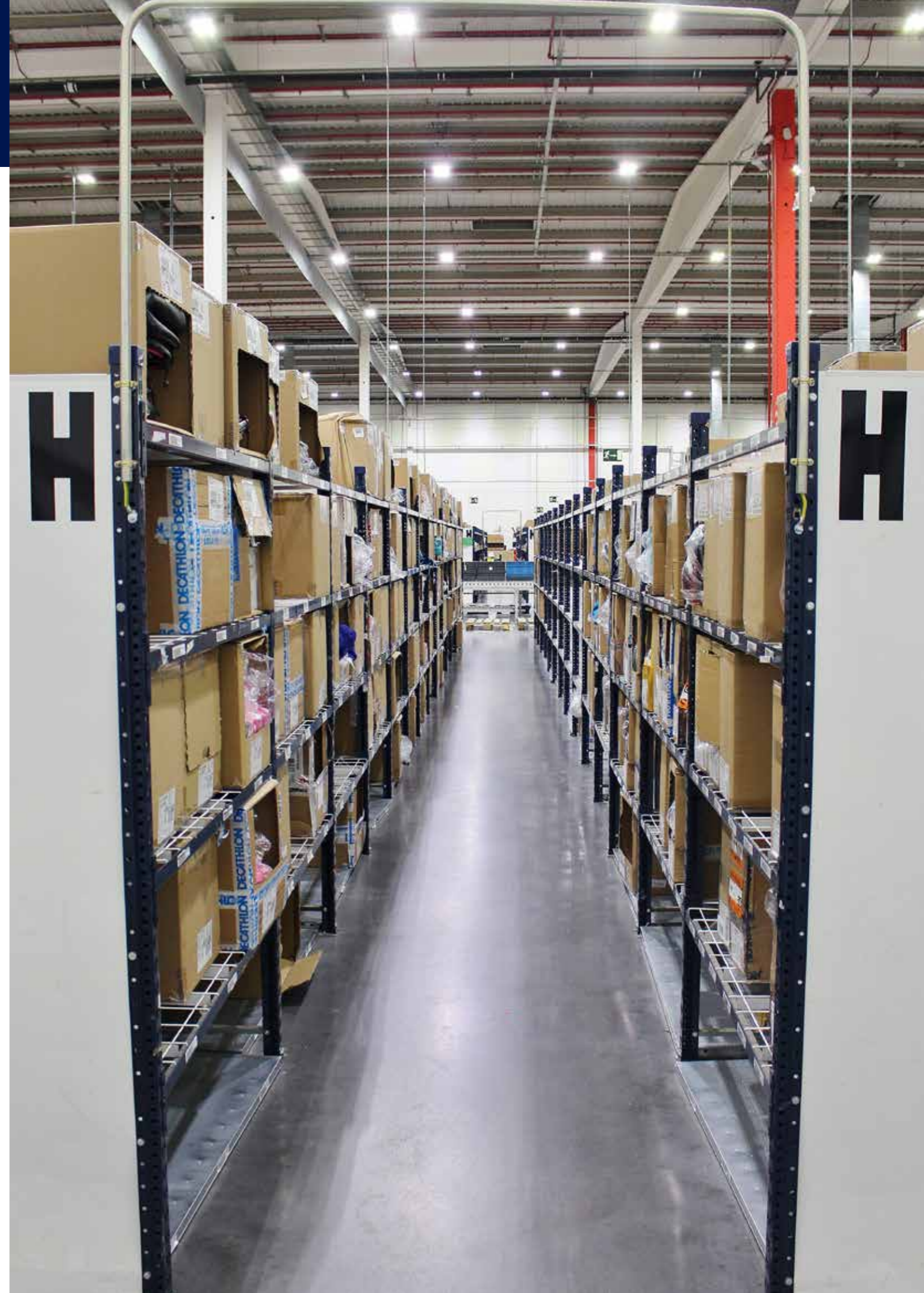
L3



L6



L9



LED INDUSTRIAL SOLUTION

Linear High Bay



Sporthall/
Other high ceiling indoor
applications



Warehouse/
Distribution center/
Factory

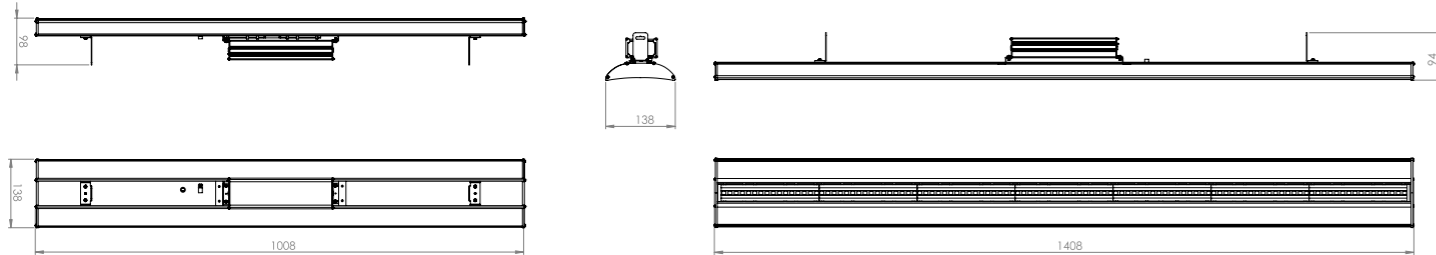
Linear High Bay Gen2

The Tungram Linear High Bay is a simple LED solution that efficiently illuminates work areas by creating a brighter and better warehouse, retail, or manufacture environment. With its two-optical design and energy efficiency, this easy-to-install and low-maintenance lighting solution is suitable for a variety of applications.

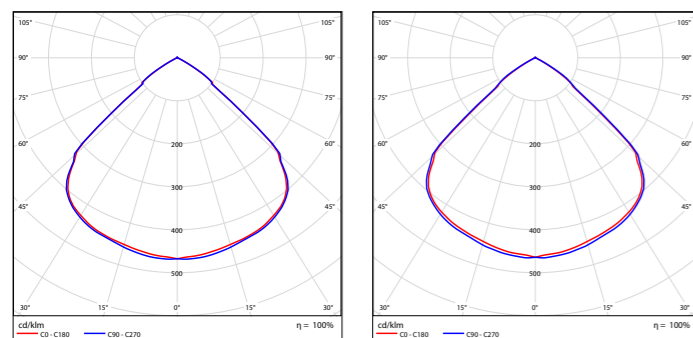


Benefits

- High energy savings up to 50% compared* to TL-5 Highbay
- Direct replacement of T5 Highbay
- Functional, linear design with flexible installation
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs

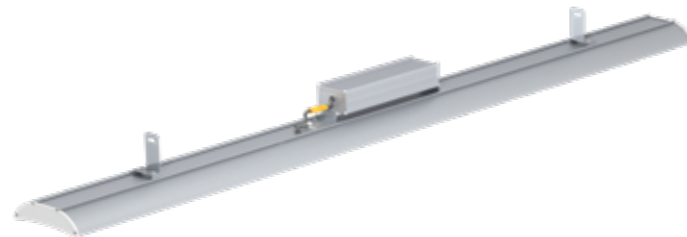


Model	Fixture (incl driver)	Driver	Weight incl driver (kg)
LED Linear Highbay G2 TU 4ft xxx	1008x138x98mm	210x65x40mm	1.9
LED Linear Highbay G2 TU 5ft xxx	1408x138x98mm	210x65x40mm	2.2

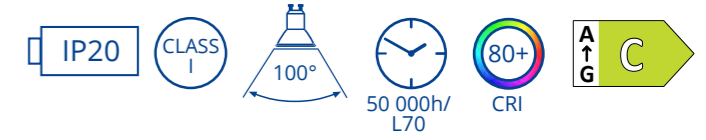


75W 4000K

110W 4000K



Linear High Bay Gen2



Product Description

Linear High Bay Gen2

Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Control
93118940	75	10500	4000	140	No
93118941	110	15950	4000	145	No

Linear High Bay Gen2 Accessories

LED Linear HighBay Duplicator Kit	93114138	-	-	-	-
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LED INDOOR & OUTDOOR SOLUTION

Exproof Easylight



General lighting
ZONE 1

Kermann LED - Exproof Easylight Z1

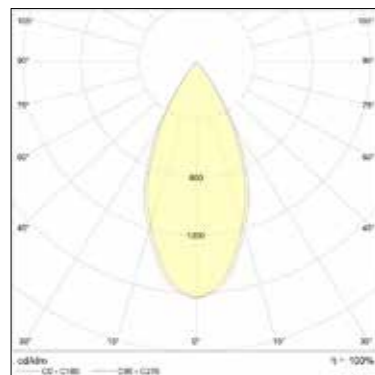
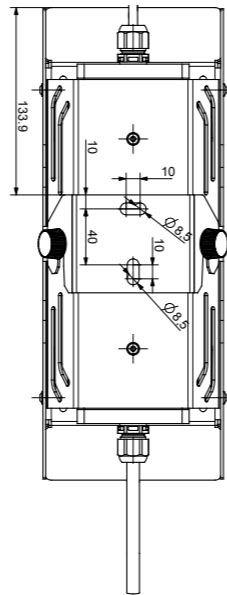
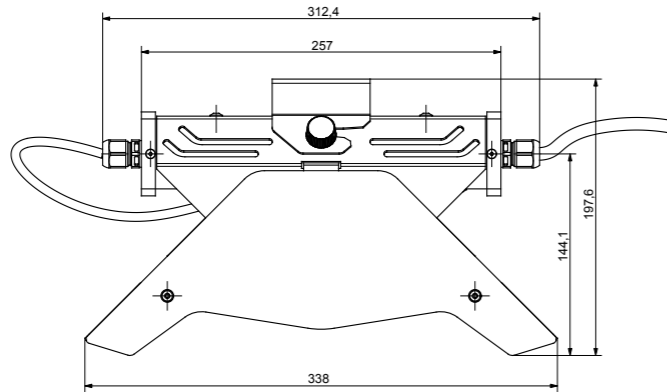
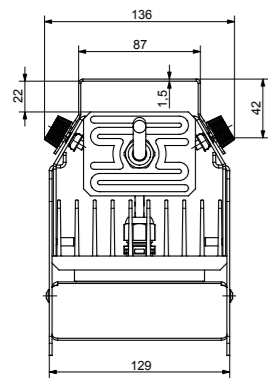
Ex II 2 G Ex eb mb IIC T5 Gb

The new Kermann Exproof Easylight Z1 exproof LED luminaire is an ideal choice to replace 2x18W, 2x36W and 2x58W fluorescent light fixtures in Zone 1 hazardous industrial areas. Our luminaire is an exceptional mixture of the highest technical quality and an excellent efficacy. With the lumen packages between 2800 - 6500 lm, and the luminaire efficacy up to 136 lm/W all personal needs can be easily met.

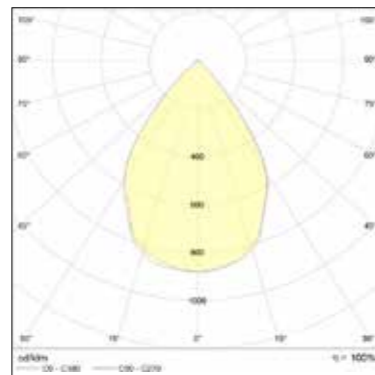


Benefits

- Zone 1 hazardous industrial areas, for the general lighting, from small and medium mounting heights
- Aluminium heatsink and steel housing
- Borosilicate glass lens
- 1 COB LED light source
- IP67 rating for the whole luminaire
- Powder painted housing
- Standard colors: RAL9005/RAL3028
- Dimmable



60°



90°

Kermann LED
Exproof Easylight Z1 Ex



LED Industrial

Product ID	Lumen (lm)	CCT / CRI	Optic	Control	Options1	Options1
Kermann LED - Exproof Easylight Z1						
KEZ1 IP67 G1	3000	3K - 3000K CRI80	L9 - 90° Clear L6 - 60° Clear	FX - Fix output	ST - Standard	PC-PreCabled
	4000	3K - 3000K CRI90				
	5200	4K - 4000K CRI80				
	6600	4K - 4000K CRI90				
		5K - 5000K CRI80				
	5K - 5000K CRI90					

4000 K 80 CRI

Nominal lumen (lm)	Rated lumen (lm)	Power (W)	Lumen / watt
3000	2925	22	133
4000	4014	32	125
5200	5243	43	122
6600	6554	55	119

CCT/CRI multipliers

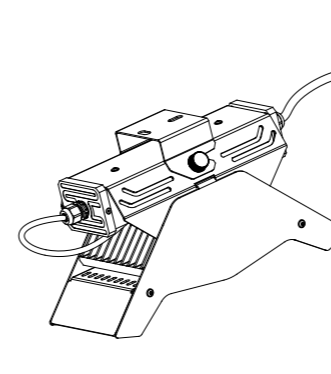
3K80	96%
3K90	82%
4K80	100%
4K90	86%
5K80	103%
5K90	88%

Optical multipliers

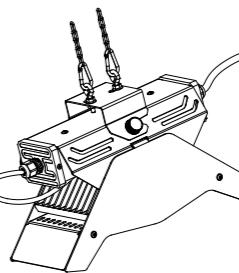
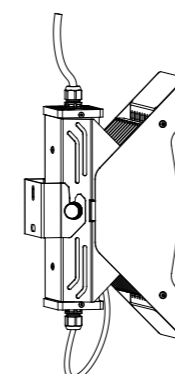
L6	100%
L9	102,7%

Mounting and accessories

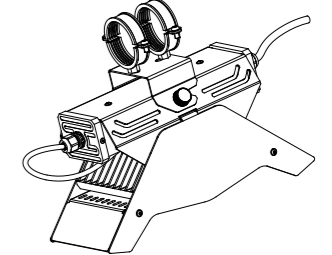
Universal mounting plate (standard desing): suitable for fix ceiling and wall mounting (screws are not included).
Mounting heights in between: 3-8m.



Universal mounting plate



Suspended with chain or wire



Mounting on light column, with pipe clamp

LED INDOOR & OUTDOOR SOLUTION

Exproof Easylight



General lighting
ZONE 2

Kermann LED - Exproof Easylight Z2

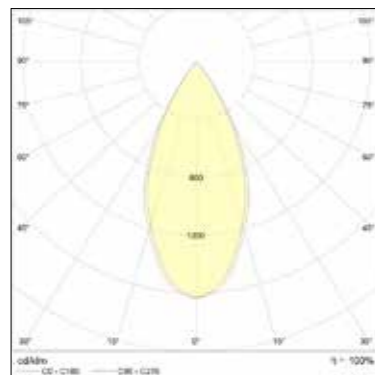
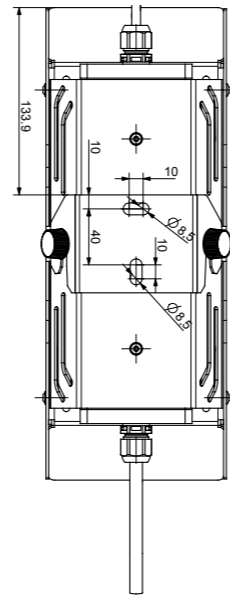
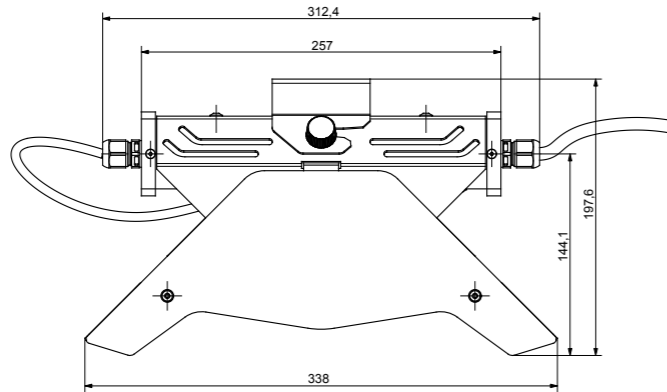
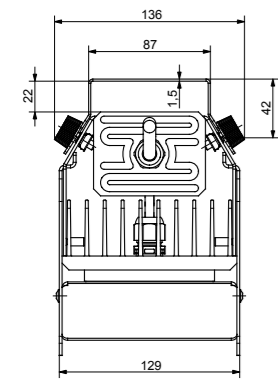
Ex II 3G Ex ec mc IIC T5 Gc

The new Kermann Exproof Easylight Z2 exproof LED luminaire is an ideal choice to replace 2x18W, 2x36W and 2x58W fluorescent light fixtures in Zone 2 hazardous industrial areas. Our luminaire is an exceptional mixture of the highest technical quality and an excellent efficacy. With the lumen packages between 2800 - 6500 lm, and the luminaire efficacy up to 136 lm/W the personal needs can be easily fulfilled.

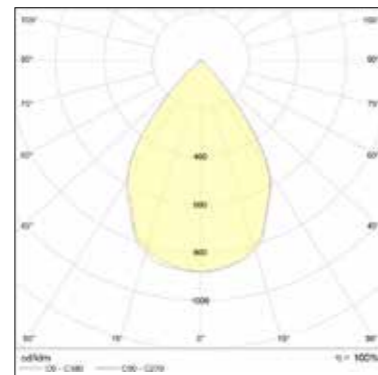


Benefits

- Zone 2 hazardous industrial areas, for the general lighting, from small and medium mounting heights
- Aluminium heatsink and steel housing
- Borosilicate glass lens
- 1 COB LED light source
- IP67 rating for the whole luminaire
- Powder painted housing
- Standard colors: RAL9005/RAL1023
- Dimmable



60°



90°

Kermann LED
Exproof Easylight Z2 Ex



LED Industrial

Product ID	Lumen (lm)	CCT / CRI	Optic	Control	Options1	Options1
Kermann LED - Exproof Easylight Z2						
KEZ2 IP67 G1	3000	3K - 3000K CRI80	L9 - 90° Clear L6 - 60° Clear	FX - Fix output	ST - Standard	PC-PreCabled
	4000	3K - 3000K CRI90				
	5200	4K - 4000K CRI80				
	6600	4K - 4000K CRI90				
		5K - 5000K CRI80				
	5K - 5000K CRI90					

4000 K 80 CRI

Nominal lumen (lm)	Rated lumen (lm)	Power (W)	Lumen / watt
3000	2925	22	133
4000	4014	32	125
5200	5243	43	122
6600	6554	55	119

CCT/CRI multipliers

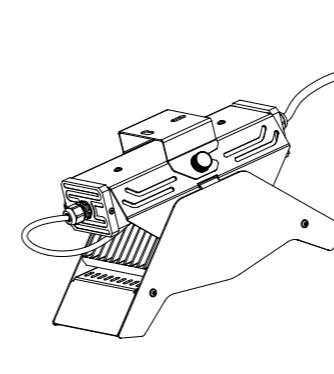
3K80	96%
3K90	82%
4K80	100%
4K90	86%
5K80	103%
5K90	88%

Optical multipliers

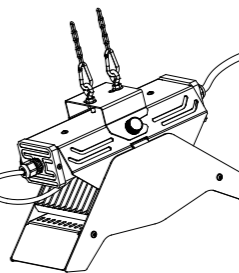
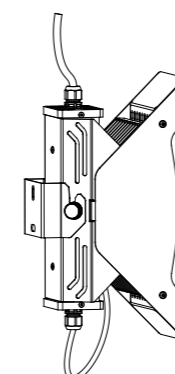
L6	100%
L9	102,7%

Mounting and accessories

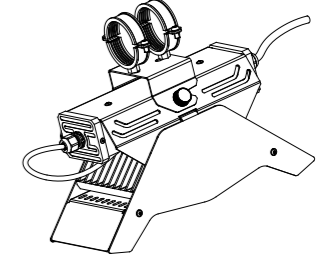
Universal mounting plate (standard desing): suitable for fix ceiling and wall mounting (screws are not included).
Mounting heights in between: 3-8m.



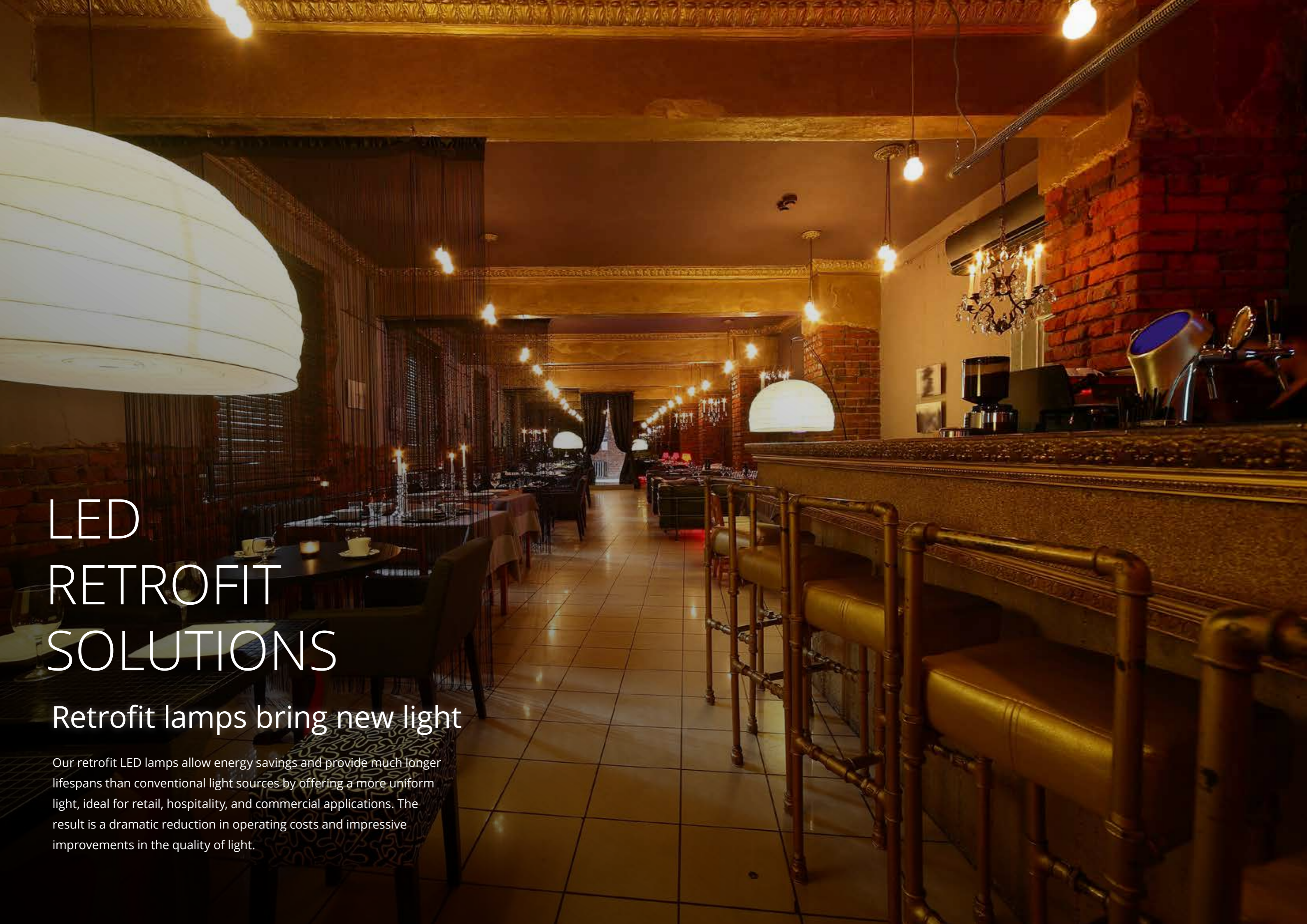
Universal mounting plate



Suspended with chain or wire



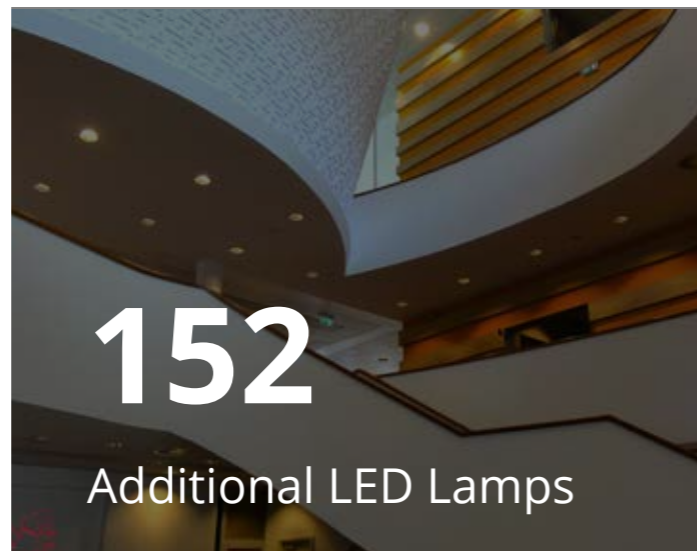
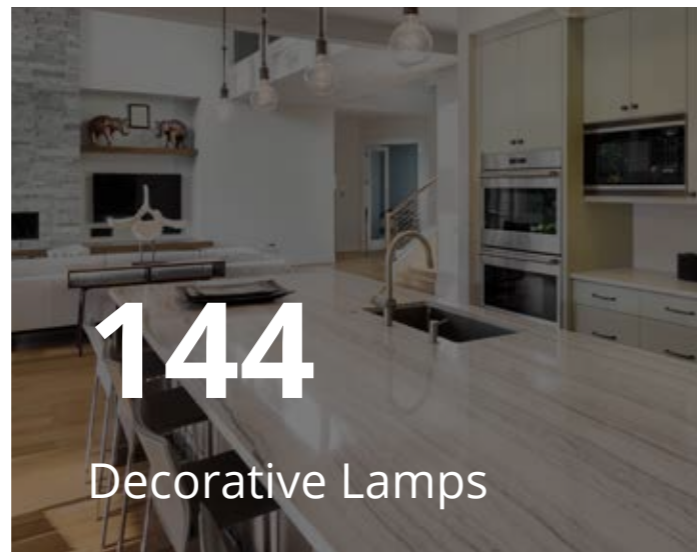
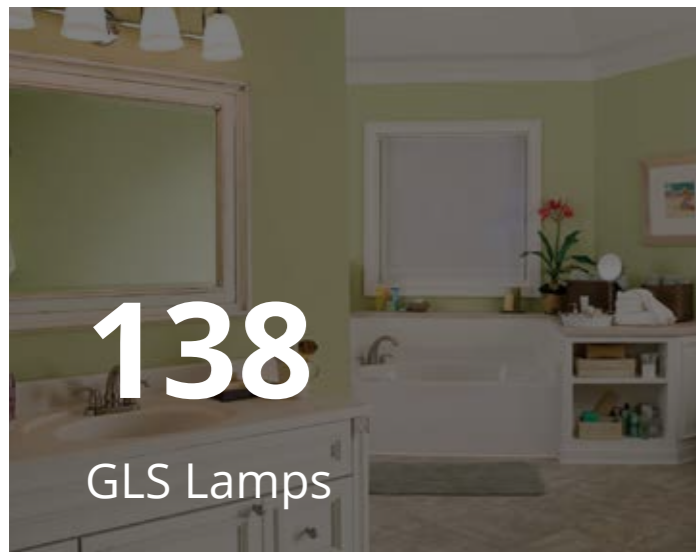
Mounting on light column, with pipe clamp



LED RETROFIT SOLUTIONS

Retrofit lamps bring new light

Our retrofit LED lamps allow energy savings and provide much longer lifespans than conventional light sources by offering a more uniform light, ideal for retail, hospitality, and commercial applications. The result is a dramatic reduction in operating costs and impressive improvements in the quality of light.



LED RETROFIT SOLUTIONS

GLS



Energy efficiency class (A-G)*



**LED VALUE
Snowcone**
Cap: E27, B22
Wattage: 4.9W, 8.8W, 9.6W,
13.2W
Voltage: 220 - 240V
Rated life: 15 000h



DimStik
Cap: E27, B22
Wattage: 9W, 14W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Dimmable GLS A60
(Clear, frosted)**
Cap: E27, B22
Wattage: 4.9W, 8W,
10.5W, 13W
Voltage: 220-240V
Rated life: 20 000 h



LED Stik
Cap: E27, B22
Wattage: 5.5W, 8.5W, 10.5W,
14W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Stik - E14
Cap: E14
Wattage: 4.9W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
GLS A60
(Clear, frosted)**
Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



LED RETROFIT SOLUTIONS

Decorative



Energy efficiency class (A-G)*



**LED Spherical
(Clear, frosted)**

Cap: E27, B22, E14, B15
Wattage: 2.5W, 4.5W, 7W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED
Warm Dimming
Deco Golf**

Cap: E14, E27, B15, B22
Wattage: 5W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Dimmable -Globe
95,120**

Cap: E27, B22
Wattage: 10,5W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Candle
(Clear, frosted)**

Cap: E27, B22, E14, B15
Wattage: 2.5W, 4.5W, 7W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED
Warm Dimming
Deco Candle**

Cap: E14, E27, B15, B22
Wattage: 5W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Dimmable -
ST64 Clear**

Cap: E27, B22
Wattage: 7W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Globe
G95, G120**

Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Dimmable -
Candle Clear**

Cap: E14, E27
Wattage: 4.2W
Voltage: 220 - 240V
Rated life: 20 000 h



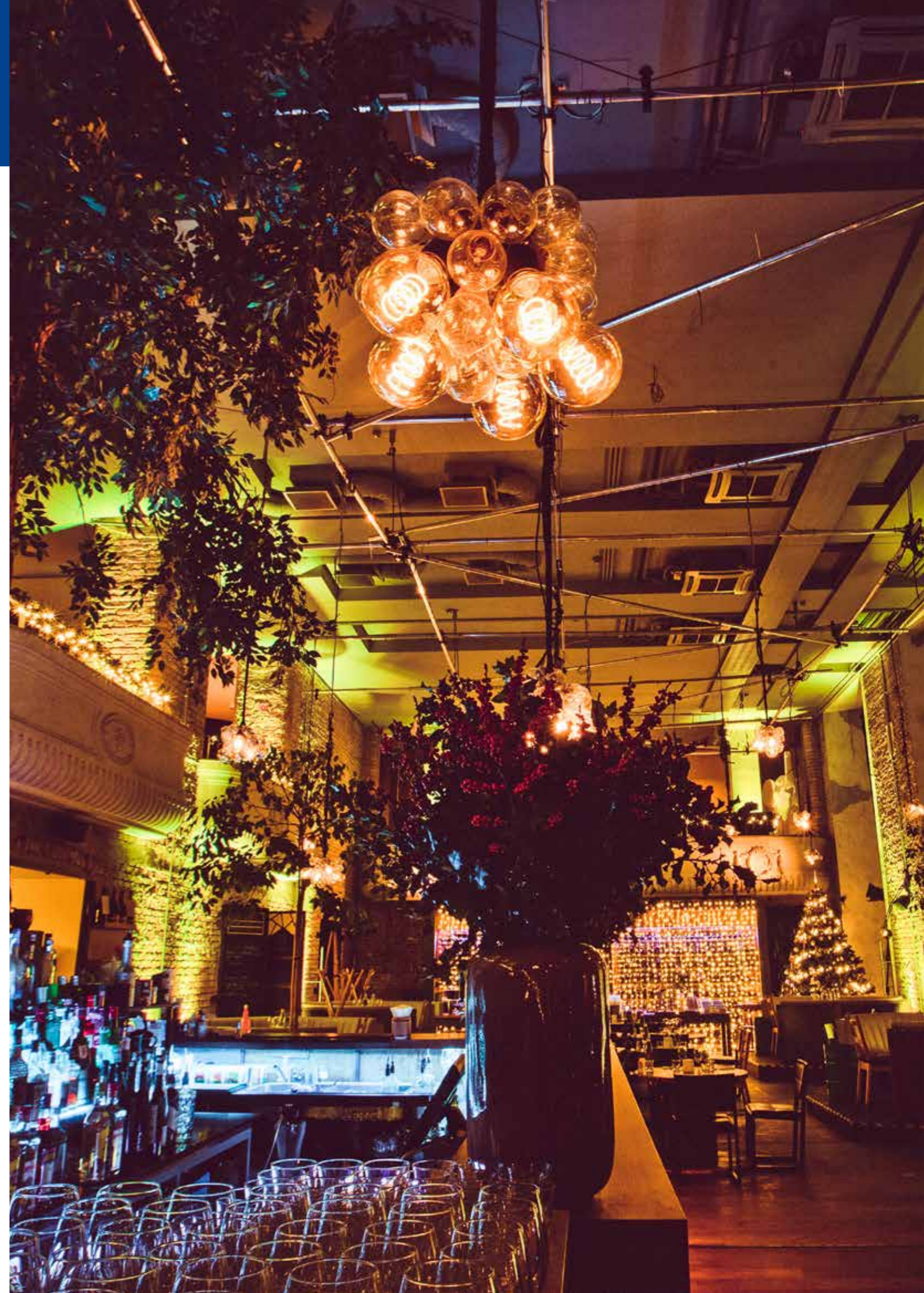
**LED Filament
ST64**

Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



**LED Filament
Dimmable -
Spherical Clear**

Cap: E14, E27
Wattage: 4,2W
Voltage: 220 - 240V
Rated life: 20 000 h



LED RETROFIT SOLUTIONS

LED Directional Lamps



Energy efficiency class (A-G)*



LED START GU10

Cap: GU10
Wattage: 3.5W, 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 15 000 h

LED Dimmable GU10

Cap: GU10
Wattage: 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h

LED Dimmable High CRI High Lumen GU10

Cap: GU10
Wattage: 6.8W
Voltage: 220 - 240V
Beam angle: 20°, 35°, 60°
Rated life: 25 000 h

LED GU10 Warm Dimming

Cap: GU10
Wattage: 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h

LED Dimmable GU10 - Narrow Spot

Cap: GU10
Wattage: 5.2W
Voltage: 220 - 240V
Beam angle: 10°
Rated life: 25 000 h

GU10

LED MR16

Cap: GU5.3
Wattage: 5W, 7W
Voltage: 12V
Beam angle: 35°
Rated life: 15 000 h

LED Dimmable MR16 High CRI, High Lumen

Cap: GU5.3
Wattage: 8W
Voltage: 12V
Beam angle: 35°
Rated life: 25 000 h

MR16

Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh/1000h)	Voltage (V)	Diameter (mm)	Length (mm)	Pack Qty
LED Start GU10															
3,5	42	GU10	LED Start GU10 3.5W(35) 827 35° TU	93118610	280	2700	35	80	15000	F	4	220-240	50	53	8
5	50	GU10	LED Start GU10 5W(50) 827 35° TU	93118611	380	2700	35	80	15000	F	5	220-240	50	53	8
3,5	43	GU10	LED Start GU10 3.5W(35) 830 35° TU	93118612	290	3000	35	80	15000	F	4	220-240	50	53	8
3,5	35	GU10	LED Start GU10 3.5W(35) 840 35° TU	93118613	300	4000	35	80	15000	F	4	220-240	50	53	8
3,5	35	GU10	LED Start GU10 3.5W(35) 865 35° TU	93118614	300	6500	35	80	15000	F	4	220-240	50	53	8
5	50	GU10	LED Start GU10 5W(50) 830 35° TU	93118615	390	3000	35	80	15000	F	5	220-240	50	53	8
5	50	GU10	LED Start GU10 5W(50) 840 35° TU	93118696	400	4000	35	80	15000	F	5	220-240	50	53	8
5	50	GU10	LED Start GU10 5W(50) 865 35° TU	93118697	400	6500	35	80	15000	F	5	220-240	50	53	8
LED Dimmable GU10															
5,0	50	GU10	LED ESmart GU10 5W(50)Dim 827 35°	93094493	360	2700	35	80	25000	G	5	220-240	50	54	8
5,0	50	GU10	LED ESmart GU10 5W(50)Dim 830 35°	93094495	380	3000	35	80	25000	F	5	220-240	50	54	8
5,0	50	GU10	LED ESmart GU10 5W(50)Dim 840 35°	93094497	400	4000	35	80	25000	F	5	220-240	50	54	8
6,0	70	GU10	LED ESmart GU10 6W(70)Dim 830 35°	93094499	500	3000	35	80	25000	F	6	220-240	50	54	8
6,0	75	GU10	LED ESmart GU10 6W(75)Dim 830 60°	93094501	500	3000	60	80	25000	F	6	220-240	50	54	8
6,0	70	GU10	LED ESmart GU10 6W(70)Dim 840 35°	93094503	540	4000	35	80	25000	F	6	220-240	50	54	8
6,0	75	GU10	LED ESmart GU10 6W(75)Dim 840 60°	93094505	540	4000	60	80	25000	F	6	220-240	50	54	8
LED Dimmable GU10 - High CRI High Lumen															
6,8	-	GU10	LED GU10 Dim 6.8W HL 927 60°	93119541	510	2700	60	90	25000	F	7	220-239	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 930 60°	93119544	510	3000	60	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 940 60°	93119547	510	4000	60	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 927 20°	93119539	510	2700	20	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 927 35°	93119540	510	2700	35	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 930 20°	93119542	510	3000	20	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 930 35°	93119543	510	3000	35	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 940 20°	93119545	510	4000	20	90	25000	F	7	220-240	50	54	10
6,8	-	GU10	LED GU10 Dim 6.8W HL 940 35°	93119546	510	4000	35	90	25000	F	7	220-240	50	54	10
LED Warm Dimming GU10															
5	50	GU10	LED WarmDim GU10 5W(50) 820-827 35°	93067834	350	2700	35	80	25000	G	5	220-240	50	54	8
LED Dimmable GU10 - Narrow Spot															
5.2	50	GU10	LED Spot GU10 5.2W(50)Dim 827 10°	93118644	345	2700	10	80	25000	G	6	220-240	50	55	10
5.2	50	GU10	LED Spot GU10 5.2W(50)Dim 840 10°	93118645	345	4000	10	80	25000	G	6	220-240	50	55	10
LED MR16															
5	35	GU5.3	LED Start MR16 5W(35) 827 35°	93094225	350	2700	35	80	15000	G	5	12	50	45	8
5	35	GU5.3	LED Start MR16 5W(35) 830 35°	93094457	350	3000	35	80	15000	G	5	12	50	45	8
5	35	GU5.3	LED Start MR16 5W(35) 840 35°	93094459	360	4000	35	80	15000	G	5	12	50	45	8
7	50	GU5.3	LED Start MR16 7W(50) 827 35°	93094467	621	2700	35	80	15000	F	7	12	50	45	8
7	50	GU5.3	LED Start MR16 7W(50) 830 35°	93094469	621	3000	35	80	15000	F	7	12	50	45	8
7	50	GU5.3	LED Start MR16 7W(50) 840 35°	93094471	630	4000	35	80	15000	F	7	12	50	45	8
LED Dimmable MR16 - High CRI High Lumen															
8	50	GU5.3	LED MR16 8W(50)Dim 927 35°	93111228	621	2700	35	90	25000	G	8	12	50	46	8
8	50	GU5.3	LED MR16 8W(50)Dim 930 35°	93111154	621	3000	35	90	25000	G	8	12	50	46	8
8	50	GU5.3	LED MR16 8W(50)Dim 940 35°	93111226	621	4000	35	90	25000	G	8	12	50	46	8





Energy efficiency class (A-G)*



LED Pygmy

Cap: E14
Wattage: 1.6W, 2.1W
Voltage: 100 - 240V
Rated life: 15 000 h



LED PAR56 Pool Lamp

Cap: Screw Terminal
Wattage: 16.5W
Voltage: 12V
Beam angle: 90°
Rated life: 25 000 h



LED PAR30 High CRI Dimmable

Cap: E27
Wattage: 11W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h



LED PAR38 Dimmable

Cap: E27
Wattage: 15W
Voltage: 220 - 240V
Beam angle: 40°
Rated life: 25 000 h



LED R111 High CRI Dimmable

Cap: G53
Wattage: 11.7W
Voltage: 12V
Beam angle: 25°, 40°
Rated life: 40 000 h

Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh/1000h)	Voltage (V)	Diameter (mm)	Length (mm)	Pack Qty
LED Pygmy															
1,6	15	E14	LED1.6/T25/827/100-240V/E14/F 2/20 HB	93119700	140	2700	-	80	15000	F	2	100-240	25	59	20
1,6	16	E14	LED1.6/T25/865/100-240V/E14/F BL 1/10 TU	93119703	150	6500	-	80	15000	F	2	100-240	25	59	10
2,1	20	E14	LED2.1/T25/827/100-240V/E14/F 2/20 HB	93119702	190	2700	-	80	15000	F	3	100-240	25	59	20
2,1	21	E14	LED2.1/T25/865/100-240V/E14/F 1/10	93119701	200	6500	-	80	15000	F	3	100-240	25	59	10
LED PAR56 - Pool Lamp															
16,5	-	Screw Terminal	LED PAR56 12V AC 16.5W 830 IP68 90°	93119174	1340	3000	90	80	25000	F	17	12	179	110	1
16,5	-	Screw Terminal	LED PAR56 12V AC 16.5W 865 IP68 90°	93119175	1420	6500	90	80	25000	F	17	12	179	110	1
LED PAR38 - Dimmable															
15,0	-	E27	LED ESmart PAR38 15W(140) 830 E27 40°	93111229	1200	3000	40	80	25000	F	15	220-240	122	137	6
LED PAR30 - High CRI - Dimmable															
11,0	85	E27	LED PAR30 11W(85)D 930 35°E27	93104932	720	3000	35	90	25000	G	11	220-240	96	93	6
11,0	85	E27	LED PAR30 11W(85)D 940 35°E27	93104933	720	4000	35	90	25000	G	11	220-240	96	93	6
LED R111 - High CRI - Dimmable															
11,7	86	G53	LED R111 11.7W(86)Dim 927 25° TU	93121002	810	2700	25	95	40000	G	12	12	111	55	10
11,7	86	G53	LED R111 11.7W(86)Dim 927 40° TU	93121003	810	2700	40	95	40000	G	12	12	111	55	10
11,7	86	G53	LED R111 11.7W(86)Dim 930 25° TU	93121004	810	3000	25	95	40000	G	12	12	111	55	10
11,7	86	G53	LED R111 11.7W(86)Dim 930 40° TU	93121005	810	3000	40	95	40000	G	12	12	111	55	10
11,7	86	G53	LED R111 11.7W(86)Dim 940 25° TU	93121036	810	4000	25	95	40000	G	12	12	111	55	10
11,7	86	G53	LED R111 11.7W(86)Dim 940 40° TU	93121037	810	4000	40	95	40000	G	12	12	111	55	10



LED RETROFIT SOLUTIONS

Tubes and Plugs



Energy efficiency class (A-G)*



T8 Ultra Glass (CCG/Mains)

Cap: G13
Wattage: 8W, 15W 23.5W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T8 Value Glass (CCG/Mains)

Cap: G13
Wattage: 8W, 14W, 17W, 24W, 26W, 26.5W, 30W
Voltage: 100 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T5 Glass

Cap: G5
Wattage: 7.5W, 16W, 26W, 34W
Voltage: 220 - 240V
Op. Fr.: 50 Hz
Rated life: 50 000 h



LED 4 pin Plug-in Gen2*

Cap: G24q-2, G24q-3
Wattage: 7.5W, 10W
Rated life: 50 000 h
Position: Horizontal



LED 2 pin Plug-in

Cap: G24d
Wattage: 10.5W
Rated life: 50 000 h
Position: Horizontal

LED Plug-in



LED T8 Ultra Glass Covered (CCG/Mains)

Cap: G13
Wattage: 15W 23.5W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T8 Start Glass (CCG/Mains)

Cap: G13
Wattage: 8W, 16W, 20W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 15 000 h



LED T8 Dummy Starter



LED HID Active Cooling

Cap: E27, E40
Wattage: 35W, 80W, 150W
Rated life: 40 000h and 50 000 h
Position: Universal



LED HID - Passive Cooling

Cap: E27, E40
Wattage: 18W - 120W
Rated life: 50 000 h
Position: Universal

LED Mercury & HID replacement

LED T8 & T5 Tube



LED 2D*

Cap: GR8, GR10q
Wattage: 6.5W, 12.5W
Rated life: 40 000 h
Position: Universal



LED 2D AC

Cap: GR8, GR10q
Wattage: 6.5W, 12.5W
Rated life: 40 000 h
Position: Universal

* LED 2D ECG and 4 pin Plug-in lamps can't be operated directly from Mains voltage, a CFL ballast is needed

LED 2D

TUNGSRAM™

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Indoor Product Catalogue September 2021