

LED Slim Downlight Premium



LED IP20 IK06 CLASS II CE UK CA

Product information

Tungsräm Slim Downlight Premium range is an ultra-thin recessed luminaires designed to replace downlight luminaires based on CFL lamp technology. There are a selection of sizes and colour temperature options to meet customer requirements. With this new extra slim range lighting can be upgraded in key segments such as office, commercial buildings, retail backoffice, hospitality. Easy choice to make switch to LED and benefit from energy saving and long life time.

Features

- Power: 12W, 18W and 22W versions
- Luminous flux: from 1080 to 2000lm
- High efficiency: up to 91lm/W
- 45000 hours lifetime (L70/B50)
- Nominal Voltage: 220-240V
- Operating frequency: 50-60Hz
- 3 colour temperatures: 3000, 4000 & 6500K
- Colour rendering index: CRI 80+
- Beam angle: 110 ±12°
- Operating temperature: -10°C to 40°C
- Storage temperature: -40°C to 60°C
- 12W & 22W (1080 & 2000 lm) versions are available with Tridonic Dali driver
- Direct replacement for compact fluorescent lamp downlights
- Up to 54% energy saving compared to luminaires that use CFL PI lamps
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Easy installation
- UV-free & IR-free

Application areas



Retail



Hospitality



Office

- Stairways
- Corridors
- General illumination

Specification summary

Parameters below are the same for all luminaires in the range:

Light Technology used	LED
Light source	Non-removable light source
Mains / Non-mains	Non-mains light source
Directional / Non-directional	Directional
Colour-tuneable	No
Anti-glare shield	No
Correlated color temperature (CCT)	3000K, 4000K, 6500K
Colour rendering index (CRI) (Ra) min	80
R9 colour rendering index value	0
SDCM (Standard Deviation or Color Maintenance)	≤6
Beam angle	110°
Flicker metric	≤1
Stroboscopic effect metric	≤0.4

Input Voltage & Frequency	220-240V(AC), 50/60Hz
Power factor	≥0.9
Displacement factor	>0.9
Standby power	0
Lifetime (L70B50)	45000
Survival factor at 3000h	1
Lumen maintenance at 3000h	0,96
Ingress protection (IP)	IP40
Color of Housing (RAL)	White
Materials (housing)	PC / Aluminium

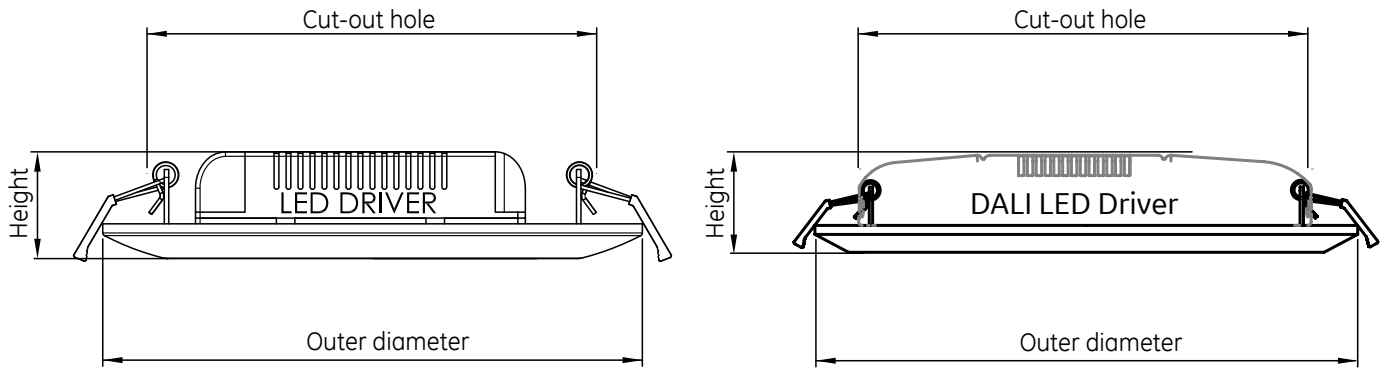
Parameters below are specific for each of the product codes:

Product code	Description	ELECTRICAL DATA				Dimm.	PHOTOMETRICAL DATA				DIMENSIONS & WEIGHTS	
		Luminaire power (W)	Light source On-mode power (W)	Lightsource output voltage (V (DC))	Light source input current (mA)		Luminaire lumen (lm)	Light source Useful lumen (120°) (lm)	Luminaire Efficiency (lm/W)	UGR	Dimensions (DxH) (mm)	Product weight (kg)
STATIC RANGE												
93103680	LED DLR SLIM P1 TU6 IP40 12W 840 SST DS	12	10,3	35-38	270	No (Static)	1080	860	90	27,2 / 21,8	180x30	0,310
93103681	LED DLR SLIM P1 TU6 IP40 12W 865 SST DS	12	10,3	35-38	270	No (Static)	1080	860	90	27,2 / 21,8	180x30	0,310
93108087	LED DLR SLIM P1 TU8 IP40 18W 830 SST	18	15,5	35-38	430	No (Static)	1530	1280	85	26,3 / 19,4	240x30	0,520
93108088	LED DLR SLIM P1 TU8 IP40 18W 840 SST	18	15,5	35-38	430	No (Static)	1620	1280	90	26,5 / 19,4	240x30	0,520
93103682	LED DLR SLIM P1 TU8 IP40 18W 840 SST DS	18	15,5	35-38	430	No (Static)	1620	1280	90	26,5 / 19,4	240x30	0,520
93103683	LED DLR SLIM P1 TU8 IP40 18W 865 SST DS	18	15,5	35-38	430	No (Static)	1620	1280	90	26,4 / 19,3	240x30	0,520
93108090	LED DLR SLIM P1 TU8 IP40 22W 830 SST	22	18,9	45-50	420	No (Static)	2000	1600	91	27,3 / 19,5	240x30	0,520
93108091	LED DLR SLIM P1 TU8 IP40 22W 840 SST	22	18,9	45-50	420	No (Static)	2000	1600	91	27,3 / 19,5	240x30	0,520
93103687	LED DLR SLIM P1 TU8 IP40 22W 840 SST DS	22	18,9	45-50	420	No (Static)	2000	1600	91	27,3 / 19,5	240x30	0,520
93103688	LED DLR SLIM P1 TU8 IP40 22W 865 SST DS	22	18,9	45-50	420	No (Static)	2000	1600	91	27,4 / 19,6	240x30	0,520
DIMMABLE RANGE												
93108096	LED DLR SLIM P1 TU6 IP40 12W 830 DST	12	10,3	35-38	270	Yes (DALI)	1080	860	90	27,4	180x30	0,460
93108097	LED DLR SLIM P1 TU6 IP40 12W 840 DST	12	10,3	35-38	270	Yes (DALI)	1080	860	90	27,4	180x30	0,460
93103693	LED DLR SLIM P1 TU6 IP40 12W 840 DST DS	12	10,3	35-38	270	Yes (DALI)	1080	860	90	27,4	180x30	0,460
93103694	LED DLR SLIM P1 TU6 IP40 12W 865 DST DS	12	10,3	35-38	270	Yes (DALI)	1080	860	90	27,4	180x30	0,460
93108098	LED DLR SLIM P1 TU8 IP40 22W 830 DST	22	18,9	45-50	420	Yes (DALI)	2000	1600	91	27,6	240x30	0,650
93108099	LED DLR SLIM P1 TU8 IP40 22W 840 DST	22	18,9	45-50	420	Yes (DALI)	2000	1600	91	27,6	240x30	0,650
93103695	LED DLR SLIM P1 TU8 IP40 22W 840 DST DS	22	18,9	45-50	420	Yes (DALI)	2000	1600	91	27,6	240x30	0,650
93103696	LED DLR SLIM P1 TU8 IP40 22W 865 DST DS	22	18,9	45-50	420	Yes (DALI)	2000	1600	91	27,6	240x30	0,650

Energy efficiency class (A-G)*

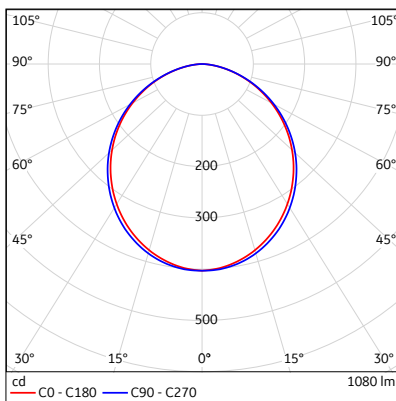


Dimensions (mm)

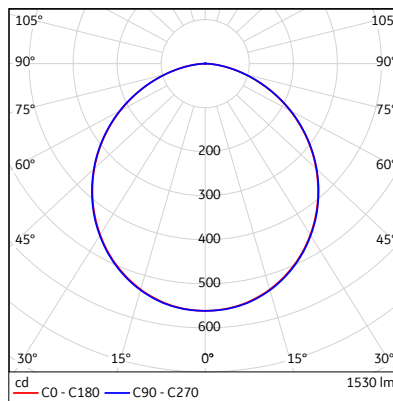


Type	Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)
Static	6"/148 mm	180+/-2	36	150+/-2
Static	8"/200 mm	240+/-2	36	200+/-2
DALI	6"/148 mm	180+/-2	43	150+/-2
DALI	8"/200 mm	240+/-2	43	200+/-2

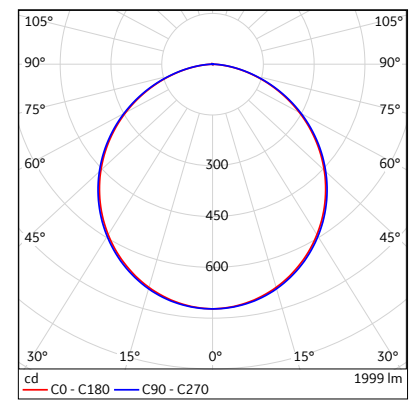
Photometric data



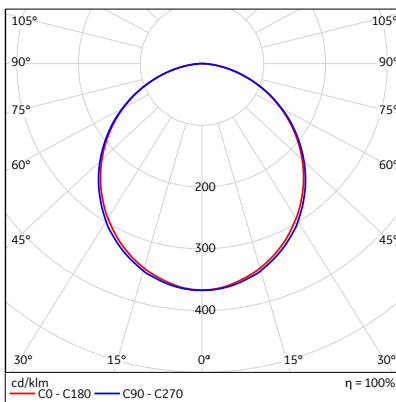
6 inch - 12W



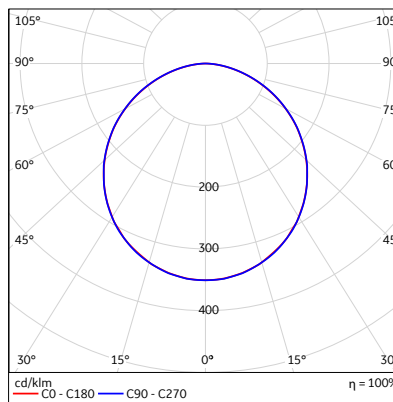
8 inch - 18W



8 inch - 22W



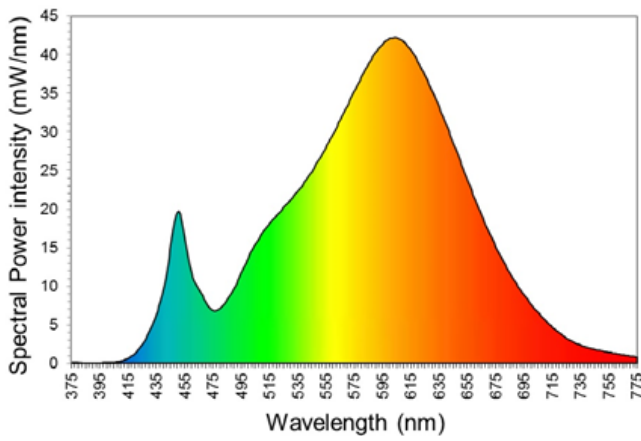
DALI - 12W



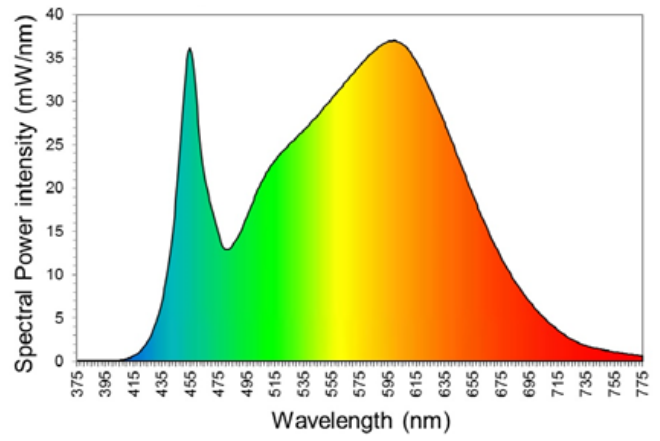
DALI - 22W

Only for indicative purpose. For lighting design, please use the ldt photometry files available for the products.

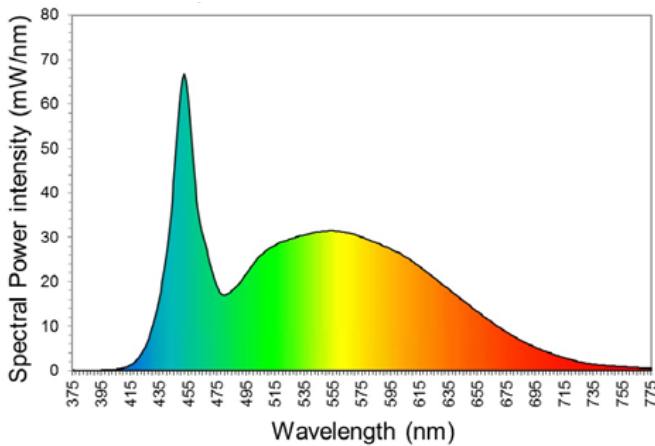
Spectral power distribution



3000K



4000K



6500K

Order logic

Internal Code	Range	Generation	Brand	Size (diameter)	IP rating	System Wattage	CRI	CCT	Controller	Emergency option	Shipment
LED DLR Slim	P - Premium	1 - Generation 1	TU - TUNGSRAM	6 - 6" 8 - 8"	IP40	12W 18W 22W	8 - 80 CRI	30 - 3000K 40 - 4000K 65 - 6500K	S - Static D - DALI	ST - Standard	DS - Direct Shipment

Regulatory and standards

Regulatory mark: CE, UKCA, Morocco

Regulations: 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU 2019/2020, (framework EU/2017/1369) EU 2019/2015*

Harmonized standards: EN 60598, EN 62493, EN 61547, EN55015, EN 61000, look for CE Declaration of Conformity and Technical File for details

Photobiological risk assessment is maximum group 1. The product is considered safe, does not pose any photobiological hazard

*not on DOC