

COB Downlight IP54



DATA SHEET

LED IP54 IK06 CLASS II 24°, 36°, 55° CE UK CA

Product information

The new Tungstar 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 (colour rendering and colour uniformity). 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, receptions.

Features

- Power: 10W, 18W, 23W, 33W, 35W versions
- Luminous flux: from 1050 to 3400lm
- High luminous efficiency, up to 111lm/W
- 24°, 36°, 55° beam angle replaceable optic, specular reflector
- Low glare rate, UGR<19
- IP54 protection rating
- Lifetime: 70.000 hours L70B50 and 50.000 hours L80B20
- CCT: 3000K & 4000K
- Power Factor: >0.9
- CRI 80+
- Operating temperature: -20°C~45°C
- Citizen LED chip
- Class II
- IK06 rating
- Aluminium die-cast housing and Bezel with PC reflector and PC lens.
- Compatible with TU Emergency Converter Kit

Application areas



General lighting /
Office



Shop / Supermarket /
Hotel / Hospitality

Specification summary

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

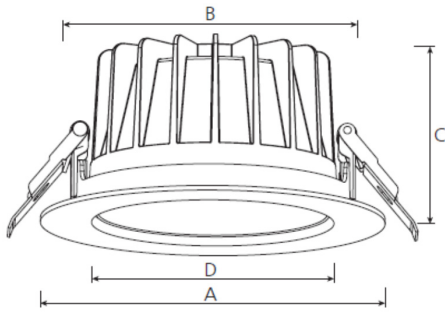
Light Technology used	LED
Light source	Non-removable light source
Mains / Non-mains	Non-mains light source
Directional / Non-directional	Directional
Colour-tuneable	No
Anti-glare shield	No
Correlated color temperature (CCT)	3000K, 4000K
Colour rendering index (CRI) (Ra) min	85
R9 colour rendering index value	0
SDCM (Standard Deviation or Color Maintenance)	≤6
Beam angle	24° 10W - 36° 18/23/33/35 W - 55°
Flicker metric	n/a
Stroboscopic effect metric	n/a

Input Voltage & Frequency	220-240V(AC), 50/60Hz
Power factor	≥0.9
Displacement factor	n/a
Standby power	0
Lifetime (L80B10)	50000
Survival factor at 3000h	1
Lumen maintenance at 3000h	0,96
Ingress protection (IP)	Front - IP54 Back - IP40
Impact protection (IK)	IK06
Color of Housing (RAL)	W - White - RAL 9010 G - Grey - RAL 9006 Black - Black - RAL 9005
Materials (housing)	PC / Aluminium
Weight	2.2kg

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 input voltage (V (DC))	Light source input current (mA)		Luminaire lumen (lm)	Light source Useful lumen (90°) (lm)	Luminaire Efficiency (lm/W)	UGR	Dimensions (DxH) (mm)	Product weight (kg)
STATIC RANGE												
93117198	LED DLR G1 10W 840 S 36D G	10	9,2	33-38	250	No (Static)	1050	950	105	18,3	95x54	0,230
93117197	LED DLR G1 10W 840 S 36D W	10	9,2	33-38	250	No (Static)	1050	950	105	18,3	95x54	0,230
93113196	LED DLR G1 18W 830 S 55D W	18	16,0	33-38	450	No (Static)	2000	1900	111	17,4	172x90	0,705
93113197	LED DLR G1 18W 840 S 55D W	18	16,0	33-38	450	No (Static)	2000	1900	111	17,4	172x90	0,705
93113198	LED DLR G1 23W 830 S 55D W	23	21,8	33-38	600	No (Static)	2500	2400	109	18,0	172x90	0,705
93113199	LED DLR G1 23W 840 S 55D W	23	21,8	33-38	600	No (Static)	2500	2400	109	17,9	172x90	0,705
93113200	LED DLR G1 33W 830 S 55D W	33	31,4	33-38	850	No (Static)	3400	3250	103	18,8	228x99	1,135
93113201	LED DLR G1 33W 840 S 55D W	33	31,4	33-38	850	No (Static)	3400	3250	103	18,6	228x99	1,135
93117723	LED DLR G1 18W 840 S 55D W 200 SB	18	16,0	33-38	450	No (Static)	2000	1900	111	18,0	172x90	0,705
93117946	LED DLR G1 18W 840 S 55D B 200 SB	18	16,0	33-38	450	No (Static)	2000	1900	111	18,0	172x90	0,705
93117925	LED DLR G1 18W 830 S 55D Black	18	16,0	33-38	450	No (Static)	2000	1900	111	17,4	172x90	0,705
DIMMABLE RANGE												
93118390	LED DLR G1 23W 830 D 55D W	23	21,8	33-38	600	Yes (DALI)	2440	2400	106	18	172x90	0,705
93118391	LED DLR G1 35W 830 D 55D W	35	31,4	33-38	850	Yes (DALI)	3400	3250	97	18,8	228x99	1,135
ACCESSORIES												
93114811	DLR Lens 18W/23W 24D 10PC	-	-	-	-	-	-	-	-	-	106x16	0,054
93114812	DLR Lens 18W/23W 36D 10PC	-	-	-	-	-	-	-	-	-	106x16	0,054
93114813	DLR Lens 18W/23W 55D 10PC	-	-	-	-	-	-	-	-	-	106x16	0,054
93114814	DLR Lens 33W 24D 10PC	-	-	-	-	-	-	-	-	-	138x16	0,089
93114815	DLR Lens 33W 36D 10PC	-	-	-	-	-	-	-	-	-	138x16	0,089
93114986	DLR Lens 33W 55D 10PC	-	-	-	-	-	-	-	-	-	138x16	0,089
93114987	DLR Reflector 18W/23W specular	-	-	-	-	-	-	-	-	-	130x53	0,050
93114988	DLR Reflector 33W specular	-	-	-	-	-	-	-	-	-	186x60	0,084

Dimensions (mm)



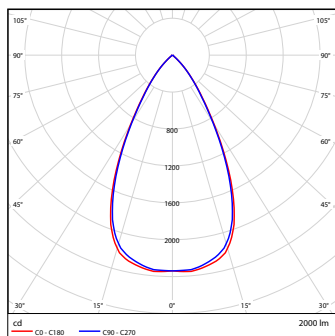
Description	A	B	C	D	Size (mm)
LED DLR G1 10Wxxx	95	80	54	63	Ø95x54
LED DLR G1 18Wxxx	172	145	90	127	Ø172x90
LED DLR G1 23Wxxx	172	145	90	127	Ø172x90
LED DLR G1 33Wxxx	228	195	99	176	Ø228x99

Order logic

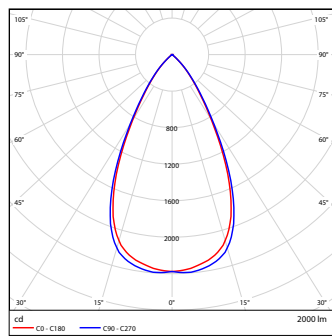
Internal Code	Generation	Wattage	CRI	CCT	Control	Beam angle	Finishing color	Shipment
LED DLR	G1 - Generation 1	10W 18W 23W 33W 35W	8 - 85 CRI	30 - 3000K 40 - 4000K	S - Static D - DALI	36D - 36 degree 55D - 55 degree	W - White - RAL 9010 G - Grey - RAL 9006 Black - Black - RAL 9005	-

Example: LED DLR G1 10W 840 S 36D W - 10W 85 CRI 4000K downlight G1 with 36° beam angle with static driver in white housing

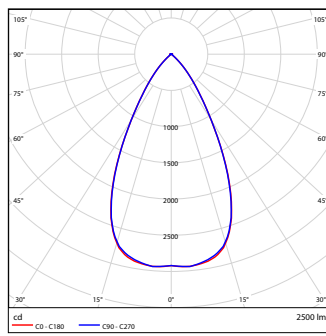
Photometric data



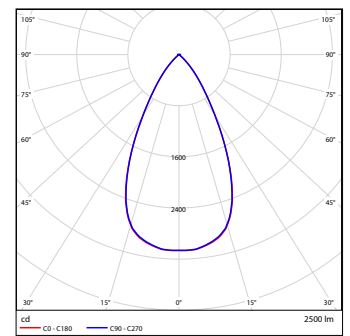
18W 3000K



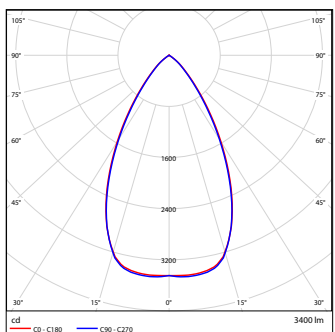
18W 4000K



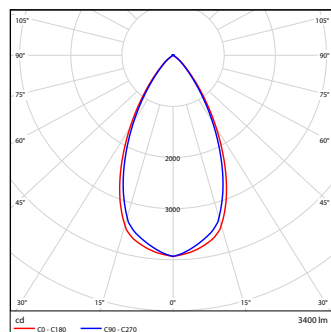
23W 3000K



23W 4000K



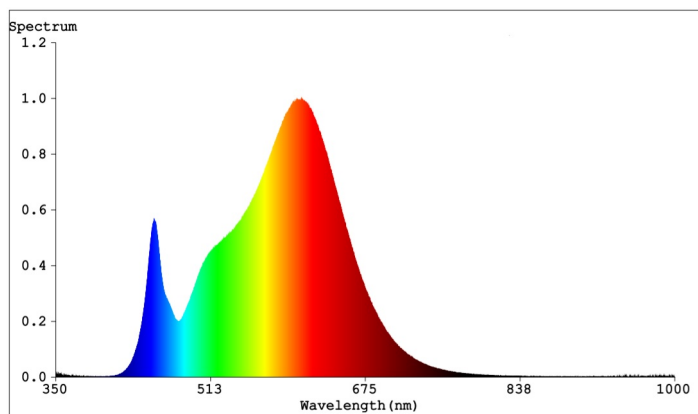
33W 3000K



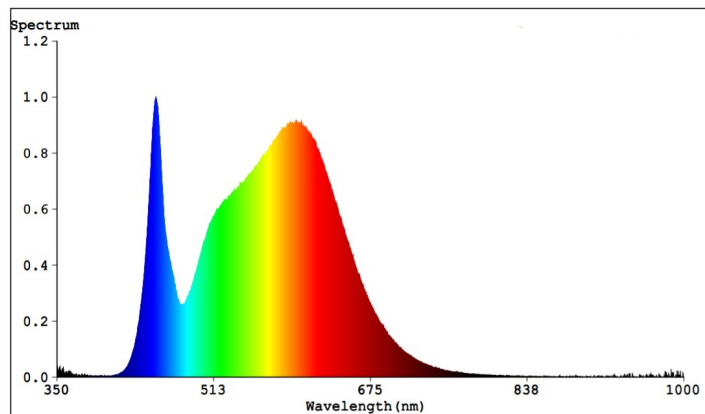
33W 4000K

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

Spectral power distribution



3000K



4000K

ENERGY EFFICIENCY CLASS (A-G)*



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