

ARCHITECTURAL FX

Technicians of Light

LTwo® Surface 48v Constant Voltage



LTwo® BATTERY Surface – Integrated Light Tube with Optics and battery contacts. Max 3,851 lumen, based on the modular, miniaturised LTwo® light source/luminaire system with 13 high-quality precision optics and Constant Voltage 48 V DC -1,0 / +1,75 12w/m, 20w/m

Like batteries, the electrical connection is made at the ends using commercially available battery connectors. This makes it particularly easy to replace the LTwo® BATTERY without tools. 360° freely rotatable for ideal alignment and maximum flexibility. Environmentally friendly due to minimal use of material (181 g/m), interchangeability, recyclability and high efficiency (up to 193 lm/W). Ideally suited for building and material integration as well as the construction of luminaires or use with a wide range of accessories.

LTwo Battery Dimensions **Ø 16.4 mm**

Fixture Length **299mm, 579mm, 859mm, 1139mm, 1419mm**

Battery Length **285 mm, 565 mm, 845 mm, 1125 mm, 1405 mm**

Output **12w and 20w 48v DC versions**

Binning **3 SDCM**

Lifetime **L80 B10 60,000 hours**

Battery Housing Colour **White/White, White/Black, Black/Black**

Luminaire Housing colour **White, Black, Silver, RAL Colour** (As specified)

Efficiency **Up to 140.9 lm/W (WW) and 132,9 lm/W (BB)** subject to beam angle and CCT. Refer to data.

Light distribution **10°, 13°, 25°, 40°, 60°, Batwing Narrow, Batwing Wide, Opal, Diffuse, Clear, 25° x 40° Asymmetrical**

UGR Subject to beam angle. **As low as (<13) WW: 8,2 / 8,7 and BB: -5,3 / -8,6 (4H | 8H / 70 | 50 | 20 / @1.000 lm)**

Protection **IP40** (Indoor use only)

Risk group (IEC 62471:2006) **RG 0 (2700 K - 4000 K) | RG 1 (5000 K)**

Dimmable – **DALI, DMX, Casambi**

Housing temperature (Tc) **min. -20°C / max. +80°C**

Ambient temperature (Ta) **min. -20°C / max. +45°C**

Technical Data
Battery Length, Lumen output @ 12w/m @ 13° Narrow Beam

48v DC constant voltage 12w/m		Battery Length/Fixture Power					
Colour (Finished CCT)	Battery Housing Colour	285mm	565mm	845mm	1125mm	1405mm	Efficiency
		(3.5w)	(6.9w)	(10.4w)	(13.8w)	(17.3w)	lm/w
2200k	White	343	688	1031	1376	1719	98 lm/w
	Black	324	647	971	1294	1616	92.5 lm/w
2400k	White	354	709	1063	1418	1772	101 lm/w
	Black	334	667	1001	1334	1666	95.4 lm/w
2700k	White	365	731	1096	1462	1827	105.7 lm/w
	Black	344	688	1032	1375	1718	99.5 lm/w
3000k	White	370	740	1110	1479	1849	107 lm/w
	Black	348	696	1044	1392	1740	100.7 lm/w
3500k	White	376	753	1129	1506	1882	108.9 lm/w
	Black	354	709	1063	1417	1771	102.5 lm/w
4000k	White	392	784	1176	1568	1960	113.4 lm/w
	Black	369	738	1107	1475	1844	106.7 lm/w
5000k	White	472	943	1415	1887	2359	136.5 lm/w
	Black	444	888	1332	1776	2219	128.4 lm/w
2700 - 6000k	White	Q3 2026	Q3 2026	Q3 2026	Q3 2026	Q3 2026	Q3 2026
	Black						
2200 - 4000k	White	Q4 2026	Q4 2026	Q4 2026	Q4 2026	Q4 2026	Q4 2026
	Black						

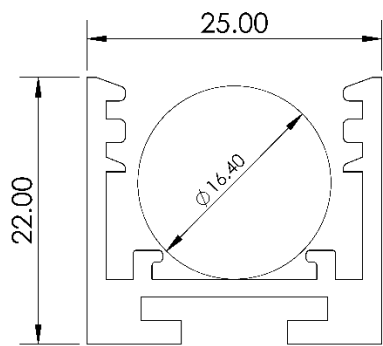
Technical Data
Battery Length, Lumen output @ 20w/m @ 13° Narrow Beam

48v DC constant voltage 20w/m		Battery Length/Fixture Power					
Colour (Finished CCT)	Battery Housing Colour	285mm	565mm	845mm	1125mm	1405mm	Efficiency
		(5.8w)	(11.7w)	(17.5w)	(23.3w)	(29.2w)	lm/w
2200k	White	544	1088	1632	2175	2719	93.7 lm/w
	Black	512	1024	1536	2047	2559	88.3 lm/w
2400k	White	561	1121	1682	2243	2803	96.7 lm/w
	Black	528	1055	1583	2111	2638	91 lm/w
2700k	White	578	1156	1734	2312	2890	99.1 lm/w
	Black	544	1088	1632	2176	2720	93.3 lm/w
3000k	White	587	1174	1761	2347	2934	100.6 lm/w
	Black	552	1105	1657	2209	2761	94.7 lm/w
3500k	White	596	1191	1787	2383	2979	102.1 lm/w
	Black	561	1121	1682	2242	2803	96.1 lm/w
4000k	White	622	1245	1867	2489	3112	106.7 lm/w
	Black	586	1171	1757	2342	2928	100.4 lm/w
5000k	White	746	1493	2239	2985	3732	128 lm/w
	Black	702	1405	2107	2809	3512	120.4 lm/w
2700 - 6000k	White	Q3 2026	Q3 2026	Q3 2026	Q3 2026	Q3 2026	Q3 2026
	Black						
2200 - 4000k	White	Q4 2026	Q4 2026	Q4 2026	Q4 2026	Q4 2026	Q4 2026
	Black						

Note: Lumen outputs are typical only. Data based on 13° Narrow Beam version (LDT files available)

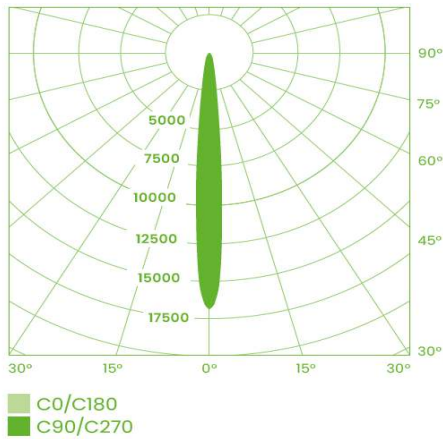
Note: This product contains a lightsource of energy efficiency class E

Product dimensions



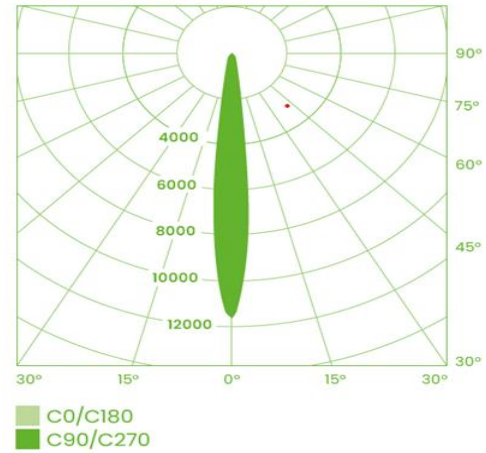
10° High Bay

UGR <13 WW: 9,8 / 10,3 & BB: -3,7 / -7,0
(4H|8H / 70|50|20 / @1.000 lm)



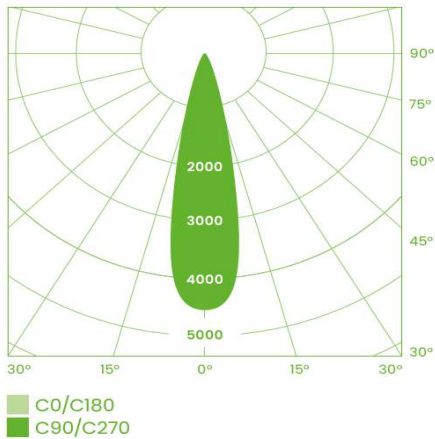
13°

UGR <13 WW: 10,9 / 11,2 & BB: 2,2 / -0,7
(4H|8H / 70|50|20 / @1.000 lm)



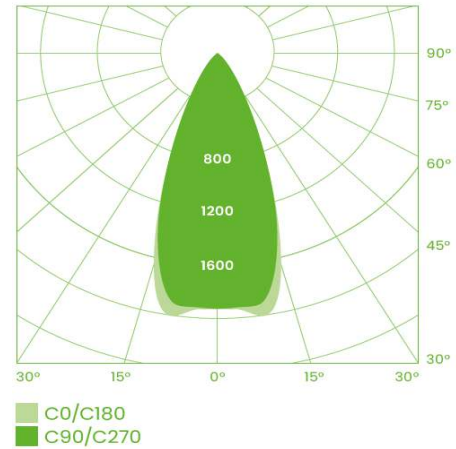
25°

UGR <13 WW: 12,2 / 12,3 & BB: 6,1 / 4,0
(4H|8H / 70|50|20 / @1.000 lm)



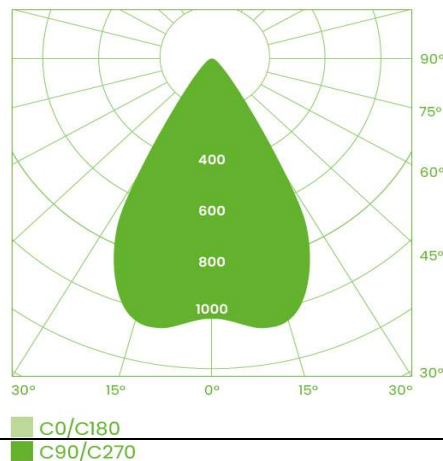
40°

UGR <16 WW: 14,5 / 14,8 & BB: 9,9 / 9,6
(4H|8H / 70|50|20 / @1.000 lm)



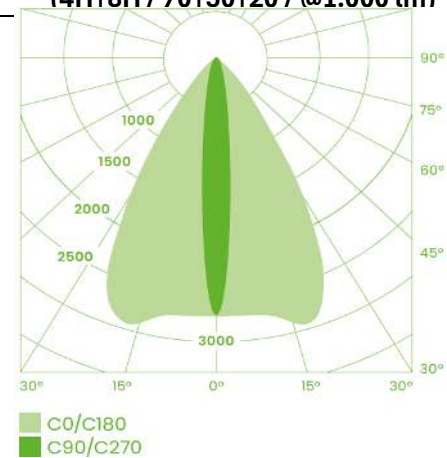
60°

UGR <19 WW: 15,5 / 16,3 & BB: 14,1 / 15,4
(4H|8H / 70|50|20 / @1.000 lm)



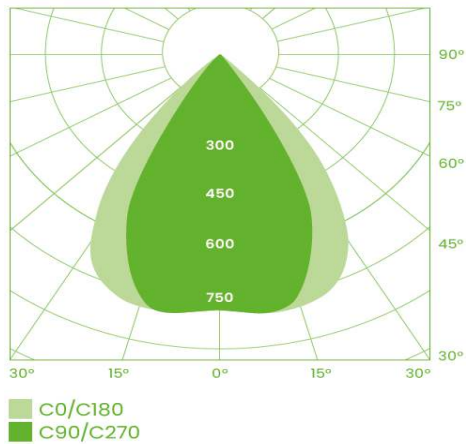
Batwing Narrow (BWN)

UGR <20 WW: 19,5 / 14,9 & BB: 18,2 / 4,9
(4H|8H / 70|50|20 / @1.000 lm)



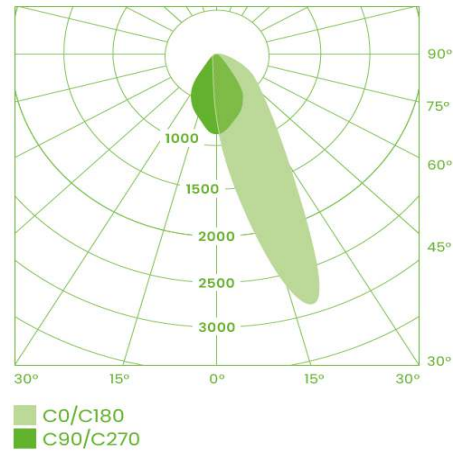
Batwing Wide (BWW)

UGR <22 WW: 21,2 / 17,3 & BB: 19,4 / 14,0
(4H|8H / 70|50|20 / @1.000 lm)



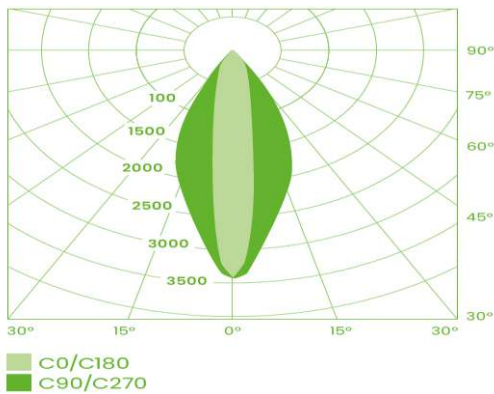
Wallwash

Asymmetrical



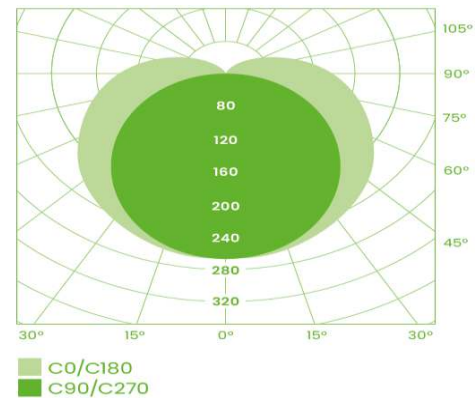
13° x 40° (Oval)

UGR <19 WW: 14,7 / 17,3 & BB: 7,9 / 14,3
(4H|8H / 70|50|20 / @1.000 lm)



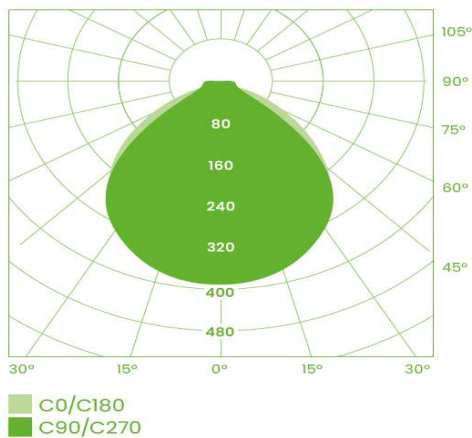
Opal (OP)

UGR * WW: 30,3 / 27,0 & BB: 29,4 / 26,2
(4H|8H / 70|50|20 / @1.000 lm)



Diffuse (DF)

UGR * WW: 25,6 / 27,9 & BB: 24,4 / 27,6
(4H|8H / 70|50|20 / @1.000 lm)



Clear (CL)

UGR * WW: 25,0 / 28,7 & BB: 24,0 / 28,4
(4H|8H / 70|50|20 / @1.000 lm)

