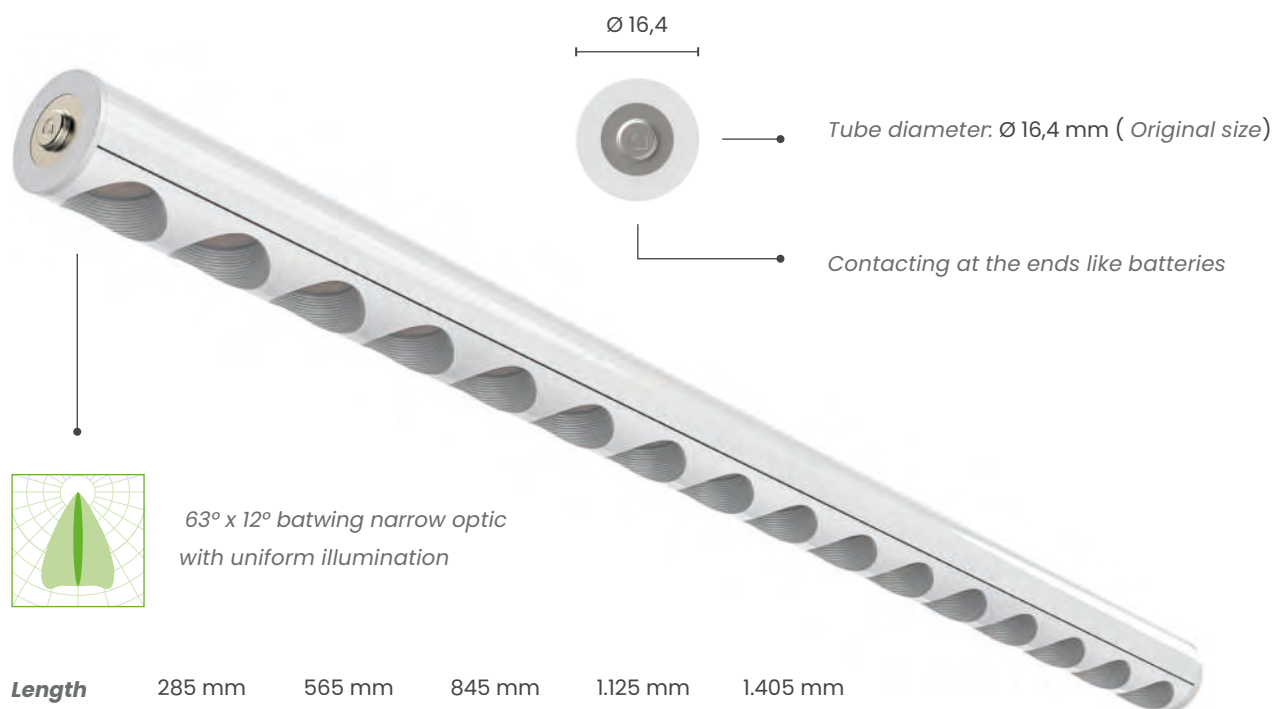


LTwo® BATTERY – batwing narrow

constant voltage

48V – 12 watt/m



Length	285 mm	565 mm	845 mm	1.125 mm	1.405 mm
Power	3,5 W	6,9 W	10,4 W	13,8 W	17,3 W
Lumen	465 lm	930 lm	1.395 lm	1.861 lm	2.326 lm

Product description

LTwo® BATTERY – Light Tube with Optics and battery con-tacts. 63° x 12° batwing narrow optic with max. 3,680 lumen, based on the modular, miniaturised LTwo® light source/luminaire system with 13 high-quality precision optics and extensive accessories for all lighting applications.

Like batteries, the electrical connection is made at the ends using inexpensive and 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.

Very 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 from apl.

Product features



Legende / Legend

Dimensions

Ø 16,4 mm

Length

285 mm, 565 mm, 845 mm, 1.125 mm, 1.405 mm

Weight

57 g, 109 g, 161 g, 213 g, 265 g

Housing colour

White (WW, RAL9016) & Black (BB, RAL9005)

Wattages

3,5 W; 6,9 W; 10,4 W; 13,8 W; 17,3 W

Lumen @ 5.000 K

465 lm, 930 lm, 1.395 lm, 1.861 lm, 2.326 lm

Efficiency

134,6 lm/W (WW), 117 lm/W (BB)

Light distribution

63° x 12° batwing narrow

LED quantity

16 per 280 mm

UGR (<19)

WW: 17,9 / 13,3 & BB: 16,6 / 3,3 (4H|8H / 70|50|20 / @1.000 lm)

LED Pitch

17,5 mm

CCT / CRI

2.700 K, 3.000 K, 3.500 K, 4.000 K (>90), 5.000 K (>80)

Binning

3 SDCM

Lifetime

60.000 h L80B10

Application

Linear batwing optic for precise and efficient illumination of aisles and rows of shelves.

Protection

IP40 (Indoor use only)

Risk group (IEC 62471:2006)

RG 0 (2.700 K – 4.000 K) | RG 1 (5.000 K)

Operating mode

Constant Voltage (CV)

Dimmable

Yes

Operating voltage

48 V DC -1,0 / +1,75

Housing temperature (Tc)

min. -20°C / max. +80°C

Ambient temperature (Ta)

min. -20°C / max. +45°C

Storage temperature (Ts)

min. -20°C / max. +85°C

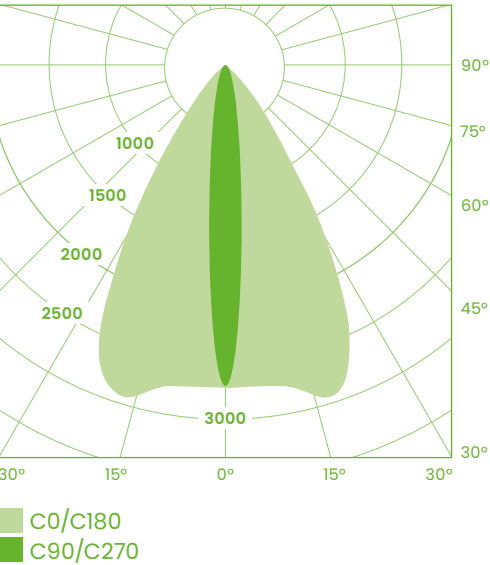
Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	285 mm 3,5 W	565 mm 6,9 W	845 mm 10,4 W	1.125 mm 13,8 W	1.405 mm 17,3 W	lm/W
>90	2.700 K	white	360 lm	721 lm	1.081 lm	1.441 lm	1.802 lm	104,3
		black	313 lm	626 lm	940 lm	1.253 lm	1.566 lm	90,6
>90	3.000 K	white	365 lm	729 lm	1.094 lm	1.459 lm	1.823 lm	105,5
		black	317 lm	634 lm	951 lm	1.268 lm	1.585 lm	91,7
>90	3.500 K	white	371 lm	742 lm	1.114 lm	1.485 lm	1.856 lm	107,4
		black	323 lm	645 lm	968 lm	1.291 lm	1.614 lm	93,4
>90	4.000 K	white	387 lm	773 lm	1.160 lm	1.546 lm	1.933 lm	111,8
		black	336 lm	672 lm	1.008 lm	1.344 lm	1.680 lm	97,2
>80	5.000 K	white	465 lm	930 lm	1.395 lm	1.861 lm	2.326 lm	134,6
		black	404 lm	809 lm	1.213 lm	1.617 lm	2.022 lm	117,0

Optical and electronic data have a tolerance of ±10 %.

The TC point must be measured at thermal equilibrium in accordance with IEC EN 60598-1

Light distribution



LTwo® BATTERY schwarz / black – batwing narrow, 565 mm

Application
Linear batwing optic for precise and efficient illumination of aisles and rows of shelves.

Order code

Product	OP	NP	Optic	L	PC	C	LH	IP
APL-LTwoT5	CV	12	BWN				BC	IP40
				285	927	BB		
				565	930	WW		
				845	935			
				1125	940			
				1405	850			

OP CV CC NP 12-25 Optic 10-60	= Operating mode = Constant Voltage =Constant Current = Nominal power per m (W/m) = 12 W/m 20 W/m 25 W/m = Optic (Degree) = 10° HB 13° 25° 40° 60°	L 145-1405 PC 927-950 C BB WW LH BC IP IP40	= Length (mm) = 145 mm 285 mm 565 mm 845 mm 1125 mm 1405 mm = Photometric code = CRI >90 CRI >80 2.700K 3.000K 3.500K 4.000K 5.000K = Housing colour = Black White = Luminaire holder = Battery contact = Protection class = Indoor use only
BWN BWW = Batwing narrow Batwing wide OVL WW = Oval Wall washer OP DF CL = Opal Diffuse Clear			



Under the following link you will find the tender specification for the product:
<https://apl.ag/products/>

General information about LTwo® applications and accessories

LTwo® is a highly innovative and disruptive light source with a modular character that allows you to use existing accessories, future accessories or accessories developed specifically for your project to open up all kinds of lighting applications, from decorative and accent lighting to task lighting and sophisticated museum lighting or the illumination of concert halls and auditoriums, for example.

LTwo® is available in different lampholder types and connection options. The variant with the magnetic lampholder LTwo® MAG offers the most versatile installation accessories. The product can be easily assembled, swivelled in the lampholder by $\pm 20^\circ$ and held in place with a safety lock. A purely mechanical lampholder (LTwo® MCH) is currently in the design phase. A battery-like lamp holder (LTwo® BATTERY) offers a very cost-effective solution for OEM designs. LTwo® PENDANT is available as a pendant luminaire with current-carrying suspension wires. The 8 mm snap connector with IP67 protection is used for the LTwo® OUTDOOR luminaire.

LTwo® MAGNETIC



LTwo® BATTERY



LTwo® PENDANT



LTwo® OUTDOOR

