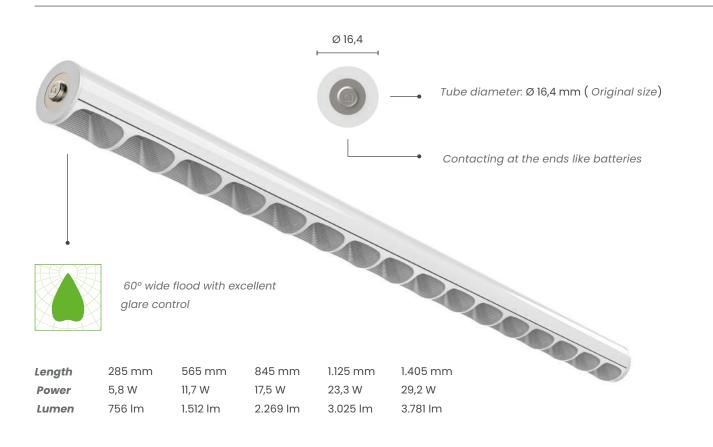
# LTwo<sup>®</sup> BATTERY - 60° wide flood constant voltage 48V - 20 watt/m



# **Product description**

LTwo® BATTERY - Light Tube with Optics and battery con-tacts. 60° wide flood optic with max. 3,781 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 align-ment and maximum flexibility.

Very environmentally friendly due to minimal use of material (181 g/m), interchangeability, recyclability and high efficien-cy (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

54 g, 106 g, 158 g, 210 g, 262 g

**Housing colour** 

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

Wattages

5,8 W; 11,7 W; 17,5 W; 23,3 W; 29,2 W

Lumen @ 5.000 K

756 lm, 1.512 lm, 2.269 lm, 3.025 lm, 3.781 lm

**Efficiency** 

129,7 lm/W (WW), 118,4 lm/W (BB)

**Light distribution** 

60° symmetrical

LED quantity 16 per 280

mm

UGR (<19)

WW: 15,5 / 16,3 & BB: 14,1 / 15,4 (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** 

Ideal for uniform general lighting in offices, conference rooms and retail spaces. Fulfils the requirements of DIN standard 12464-1.

**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. +40°C

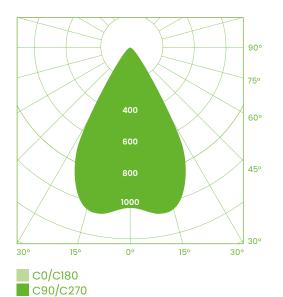
Storage temperature (Ts)

min. -20°C / max. +85°C

## Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	285 mm 5,8 W	565 mm 11,7 W	845 mm 17,5 W	1.125 mm 23,5 W	1.405 mm 29,2 W	lm/W
>90	2.700 K	white	586 lm	1.171 lm	1.757 lm	2.343 lm	2.928 lm	100,4
		black	535 lm	1.070 lm	1.605 lm	2.140 lm	2.675 lm	91,7
>90	3.000 K	white	595 lm	1.189 lm	1.784 lm	2.379 lm	2.973 lm	102,0
		black	543 lm	1.086 lm	1.629 lm	2.173 lm	2.716 lm	93,1
>90	3.500 K	white	604 lm	1.207 lm	1.811 lm	2.415 lm	3.018 lm	103,5
		black	551 lm	1.103 lm	1.654 lm	2.205 lm	2.757 lm	94,5
>90	4.000 K	white	631 lm	1.261 lm	1.892 lm	2.522 lm	3.153 lm	108,1
		black	576 lm	1.152 lm	1.728 lm	2.304 lm	2.880 lm	98,8
>80	5.000 K	white	756 lm	1.512 lm	2.269 lm	3.025 lm	3.781 lm	129,7
		black	691 lm	1.381 lm	2.072 lm	2.763 lm	3.454 lm	118,4

### **Light distribution**





LTwo® BATTERY schwarz / black - 60° wide flood, 565 mm

#### **Application**

Ideal for uniform general lighting in offices, conference rooms and retail spaces. Fulfils the requirements of DIN standard 12464-1.

#### Order code

Product	OP	NP	Optic	L	PC	С	LH	IP
APL-LTwoT5	CV	20	10				ВС	IP40
				285	927	ВВ		
				565	930	WW		
				845	935			
				1125	940			
				1405	850			

= Operating mode OP = Length (mm) = Constant Voltage CV 145-1405 = 145 mm | 85 mm | 65 mm | 45 mm | 125 mm | 405 mm = Constant Current CC PC = Photometric code = Nominal power per m (W/m) 927-950 = CRI >90 | CRI >80 | 2.700K | 3.000K | 3.500K | 4.000K | 5.000K NP = 12 W/m | 20 W/m | 25 W/m 12-25 С = Housing colour = Optic (Degree) BB | WW = Black | White Optic = 10° HB | 13° | 25° | 40° | 60° LH = Luminaire holder ВС = Battery contact BWN | BWW = Batwing narrow | Batwing wide ΙP = Protection class OVL | WW = Oval | Wall washer OP | DF | CL = Opal | Diffuse | Clear IP40 = Indoor use only



#### 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 sophisti-cated museum lighting or the illumination of concerthalls and auditoriums, for example.

LTwo® is available in different lampholder types and connec-tion options. The variant with the magnetic lampholder LTwo® MAG offers the most versatile installation accessories. The product can be easily assembled, swivelled in the lamphol-der by +/-20° 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 sus-pension wires. The 8 mm snap connector with IP67 protection is used for the LTwo® OUTDOOR luminaire.

LTwo® MAGNETIC

**LTwo® BATTERY** 

LTwo® PENDANT

LTwo® OUTDOOR























