# LTwo<sup>®</sup> BATTERY - 25° flood constant voltage 48V - 20 watt/m



#### **Product description**

LTwo® BATTERY - Light Tube with Optics and battery con-tacts. 25° flood optic with max. 3,694 lumen, based on the modular, miniaturised LTwo® light source/luminaire system with 13 high-quality precision optics and extensive accesso-ries 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 Im/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**





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 Weiß / White (WW, RAL9016) & Schwarz / Black (BB, RAL9005)

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

Lumen @ 5.000 K 739 lm, 1.478 lm, 2.216 lm, 2.955 lm, 3.694 lm

Efficiency 126,7 lm/W (WW), 118,3 lm/W (BB)

**Light distribution** 25° symmetrical

LED quantity 16 per 280 mm

UGR (<13) WW: 12,2 / 12,3 & BB: 6,1 / 4,0 (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 a focused, pinpoint lighting to highlight objects or for general lighting with higher ceilings.

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

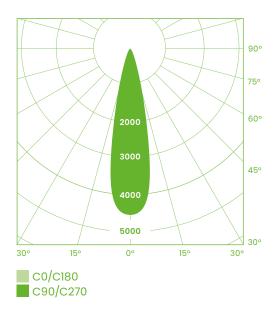
#### Length, lumen, watt

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	572 lm	1.144 lm	1.717 lm	2.289 lm	2.861 lm	98,1
		black	534 Im	1.069 lm	1.603 lm	2.137 lm	2.671 lm	91,6
>90	3.000 K	white	581 lm	1.162 lm	1.743 lm	2.324 lm	2.905 lm	99,6
		black	542 lm	1.085 lm	1.627 lm	2.170 lm	2.712 lm	93,0
>90	3.500 K	white	590 lm	1.180 lm	1.769 lm	2.359 lm	2.949 lm	101,1
		black	551 lm	1.101 lm	1.652 lm	2.203 lm	2.753 lm	94,4
>90	4.000 K	white	616 lm	1.232 lm	1.848 lm	2.464 lm	3.080 lm	105,6
		black	575 lm	1.150 lm	1.726 lm	2.301 lm	2.876 lm	98,6
>80	5.000 K	white	739 lm	1.478 lm	2.216 lm	2.955 lm	3.694 lm	126,7
		black	690 lm	1.380 lm	2.070 lm	2.759 lm	3.449 lm	118,3

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<sup>®</sup> BATTERY *black* - 25° flood, 565 mm

#### Application

Ideal for a focussed, pinpoint lighting to highlight objects or for general lighting with higher ceilings.

### Order code

Product	ОР	NP	Optic	L	PC	С	LH	IP	
APL-LTwoT	5 CV	20	10				BC	IP40	
				285 565 845 1125 1405	927 930 935 940 850	BB WW			
OVL   WW	<ul> <li>Operating mode</li> <li>Constant Voltage</li> <li>Constant Current</li> <li>Nominal power per m (W/m)</li> <li>12 W/m   20 W/m   25 W/m</li> <li>Optic (Degree)</li> <li>10° HB   13°   25°   40°   60°</li> <li>WW = Batwing narrow   Batwing wide</li> <li>W = Oval   Wall washer</li> <li>  CL = Opal   Diffuse   Clear</li> </ul>				5 = 145 mm   8 = Photometri 0 = CRI >90   CRI = Housing col = Black   White = Luminaire h = Battery cont = Protection of	<ul> <li>= Length (mm)</li> <li>= 145 mm   85 mm   65 mm   45 mm   125 mm   405 mm</li> <li>= Photometric code</li> <li>= CRI &gt;90   CRI &gt;80   2.700K   3.000K   3.500K   4.000K   5.000K</li> <li>= Housing colour</li> <li>= Black   White</li> <li>= Luminaire holder</li> <li>= Battery contact</li> <li>= Protection class</li> <li>= Indoor use only</li> </ul>			



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 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.

