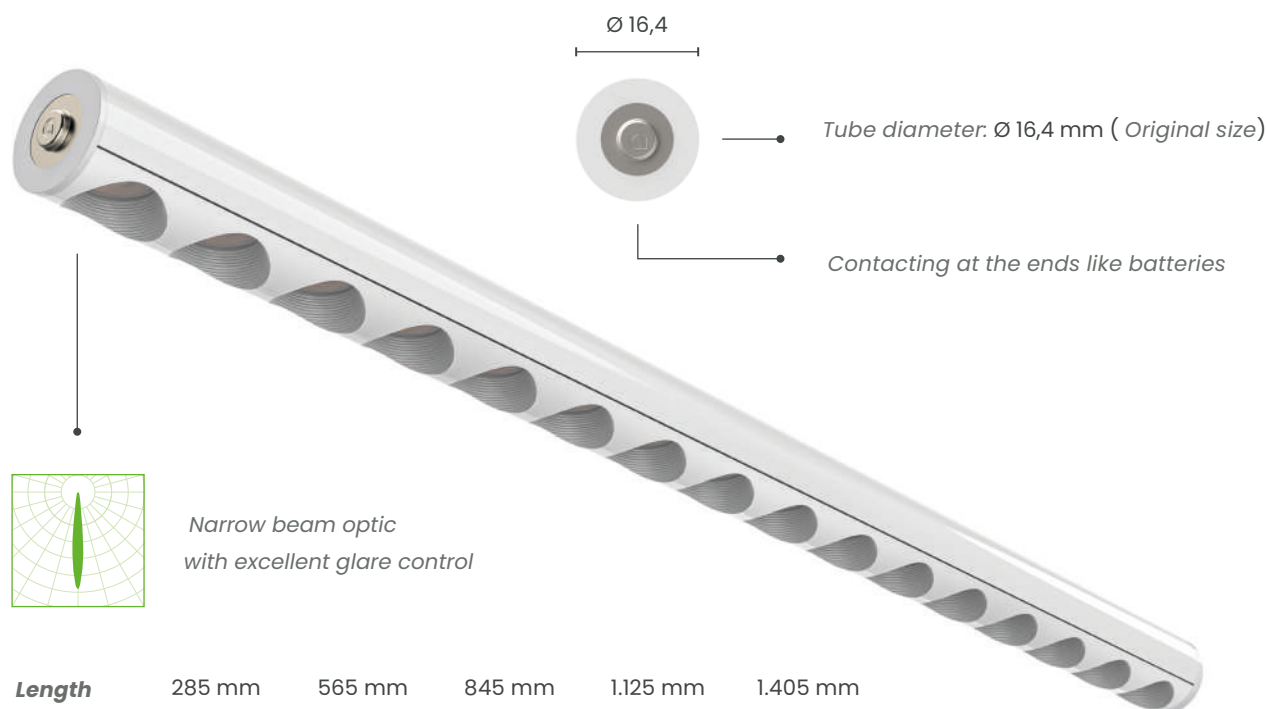


LTwo® BATTERY - 13° spot

constant voltage 48V - 20 watt/m



Length	285 mm	565 mm	845 mm	1.125 mm	1.405 mm
Power	5,8 W	11,7 W	17,5 W	23,3 W	29,2 W
Lumen	746 lm	1.493 lm	2.239 lm	2.985 lm	3.732 lm

Product description

LTwo® BATTERY - Light Tube with Optics and battery con-tacts. Spot 13° optic with max. 3,732 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

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

746 lm, 1.493 lm, 2.239 lm, 2.985 lm, 3.732 lm

Efficiency

128,0 lm/W (WW), 120,4 lm/W (BB)

Light distribution

13° symmetrical

LED quantity

16 per 280 mm

UGR (<13)

WW: 10,9 / 11,2 & BB: 2,2 / -0,7 (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 highlighting individual objects and accentuating structures in architecture.

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 (T_c)

min. -20°C / max. +80°C

Ambient temperature (T_a)

min. -20°C / max. +40°C

Storage temperature (T_s)

min. -20°C / max. +85°C

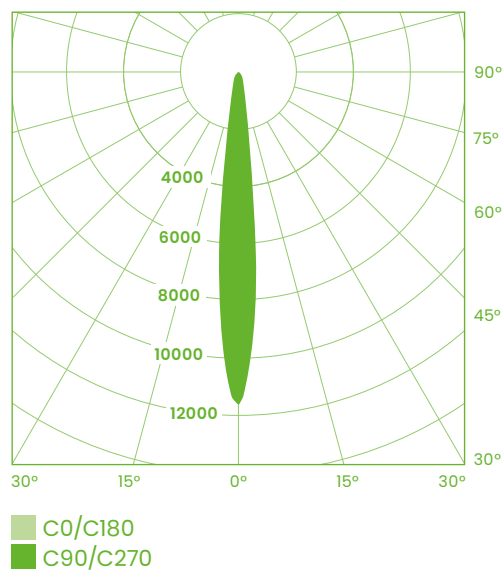
Length, lumen, watt

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	578 lm	1.156 lm	1.734 lm	2.312 lm	2.890 lm	99,1
		black	544 lm	1.088 lm	1.632 lm	2.176 lm	2.720 lm	93,3
>90	3.000 K	white	587 lm	1.174 lm	1.761 lm	2.347 lm	2.934 lm	100,6
		black	552 lm	1.105 lm	1.657 lm	2.209 lm	2.761 lm	94,7
>90	3.500 K	white	596 lm	1.191 lm	1.787 lm	2.383 lm	2.979 lm	102,1
		black	561 lm	1.121 lm	1.682 lm	2.242 lm	2.803 lm	96,1
>90	4.000 K	white	622 lm	1.245 lm	1.867 lm	2.489 lm	3.112 lm	106,7
		black	586 lm	1.171 lm	1.757 lm	2.342 lm	2.928 lm	100,4
>80	5.000 K	white	746 lm	1.493 lm	2.239 lm	2.985 lm	3.732 lm	128,0
		black	702 lm	1.405 lm	2.107 lm	2.809 lm	3.512 lm	120,4

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 *black* – 13°, 565 mm

Application

Ideal for highlighting individual objects and accentuating structures in architecture.

Order code

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

OP = **Operating mode**
 CV = Constant Voltage
 CC = Constant Current
NP = **Nominal power per m (W/m)**
 12-25 = 12 W/m | 20 W/m | 25 W/m
Optic = **Optic (Degree)**
 10-60 = 10° HB | 13° | 25° | 40° | 60°
 BWN | BWW = Batwing narrow | Batwing wide
 OVL | WW = Oval | Wall washer
 OP | DF | CL = Opal | Diffuse | Clear

L = **Length (mm)**
 145-1405 = 145 mm | 85 mm | 65 mm | 45 mm | 125 mm | 405 mm
PC = **Photometric code**
 927-950 = CRI >90 | CRI >80 | 2.700K | 3.000K | 3.500K | 4.000K | 5.000K
C = **Housing colour**
 BB | WW = Black | White
LH = **Luminaire holder**
 BC = Battery contact
IP = **Protection class**
 IP40 = Indoor use only



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

