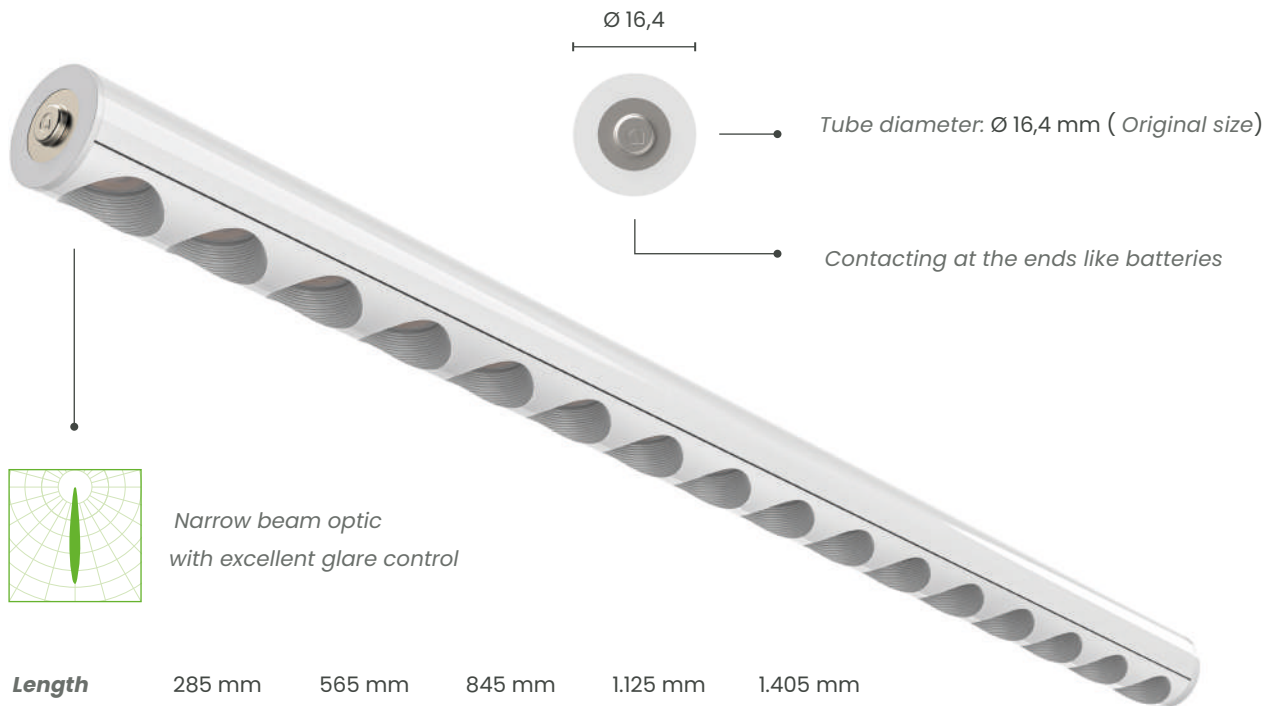


LTwo® BATTERY – 13° spot

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	472 lm	943 lm	1.415 lm	1.887 lm	2.359 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

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

Lumen @ 5.000 K

472 lm, 943 lm, 1.415 lm, 1.887 lm, 2.359 lm

Efficiency

136,5 lm/W (WW), 128,4 lm/W (BB)

Light distribution

13° symmetrical

LED quantity

16 per 280 mm

UGR (<13)

WW: 9,3 / 9,6 & BB: 0,6 / -2,3 (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

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. +45°C

LStorage temperature (T_s)

min. -20°C / max. +85°C

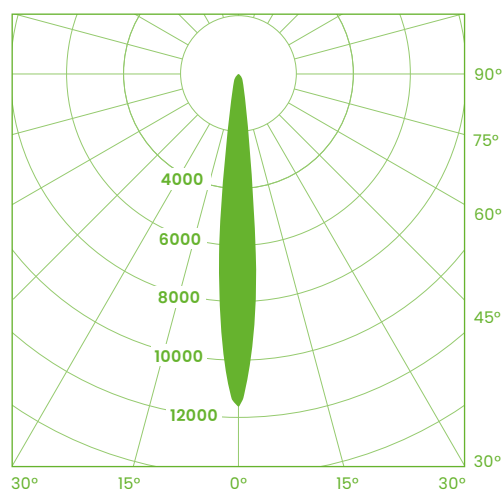
Length, lumen, watt

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	365 lm	731 lm	1.096 lm	1.462 lm	1.827 lm	105,7
		black	344 lm	688 lm	1.032 lm	1.375 lm	1.719 lm	99,5
>90	3.000 K	white	370 lm	740 lm	1.110 lm	1.479 lm	1.849 lm	107,0
		black	348 lm	696 lm	1.044 lm	1.392 lm	1.740 lm	100,7
>90	3.500 K	white	376 lm	753 lm	1.129 lm	1.506 lm	1.882 lm	108,9
		black	354 lm	709 lm	1.063 lm	1.417 lm	1.771 lm	102,5
>90	4.000 K	white	392 lm	784 lm	1.176 lm	1.568 lm	1.960 lm	113,4
		black	369 lm	738 lm	1.107 lm	1.475 lm	1.844 lm	106,7
>80	5.000 K	white	472 lm	943 lm	1.415 lm	1.887 lm	2.359 lm	136,5
		black	444 lm	888 lm	1.332 lm	1.776 lm	2.219 lm	128,4

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



■ C0/C180
■ C90/C270



LTwo® BATTERY schwarz / 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

