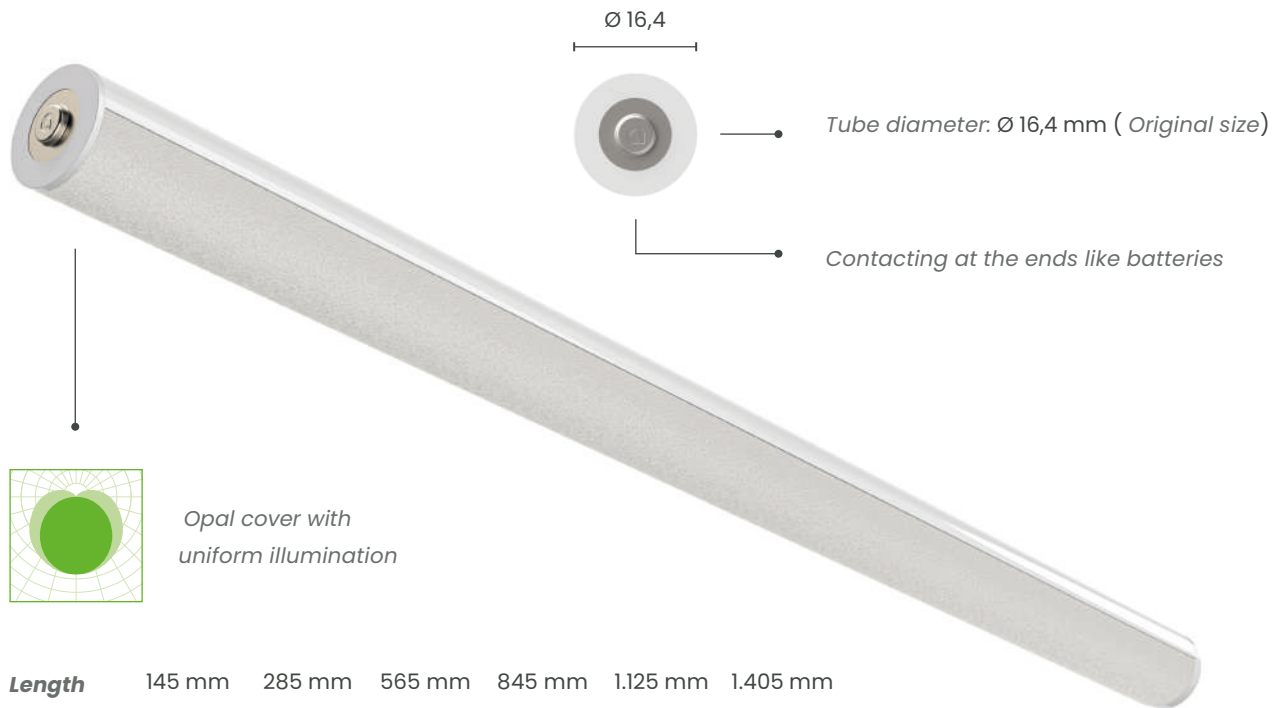


LTwo® BATTERY – opal

constant voltage 48V – 20 watt/m



Length	145 mm	285 mm	565 mm	845 mm	1.125 mm	1.405 mm
Power	3,0 W	6,0 W	11,9 W	17,9 W	23,8 W	29,8 W
Lumen	429 lm	857 lm	1.715 lm	2.572 lm	3.430 lm	4.287 lm

Product description

LTwo® BATTERY – Light Tube with Optics and battery con-tacts. Opal cover with max. 4,287 lumen, based on the mo-dular, miniaturised LTwo® light source/luminaire system with 13 high-quality precision optics and extensive accessories f or all lighting applications.

Like batteries, the electrical connection is made at the ends using inexpensive and commercially available battery con-nectors. 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

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

Weight

26 g, 47 g, 90 g, 133 g, 176 g, 219 g

Housing colour

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

Wattages

3,0 W; 6,0 W; 11,9 W; 17,9 W; 23,8 W; 29,8 W

Lumen @ 4.000 K

429 lm, 857 lm, 1.715 lm, 2.572 lm, 3.430 lm, 4.287 lm

Efficiency

144,1 lm/W (WW), 111,9 lm/W (BB)

Light distribution

Opal (Lambertian emitter)

LED quantity

32 per 280 mm

UGR

WW: 30,3 / 27,0 & BB: 29,4 / 26,2 (4H|8H / 70|50|20 / @1.000 lm)

LED Pitch

8,75 mm

CCT / CRI

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

Binning

3 SDCM

Lifetime

60.000 h L80B10

Application

Ideal for uniform light with lambertian light distribution.
For general or decorative lighting.

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)

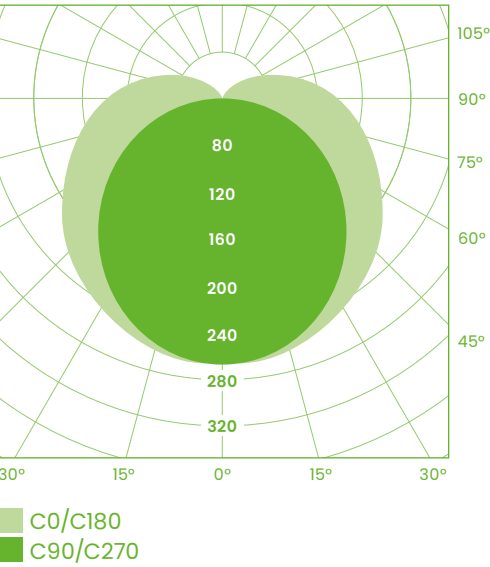
min. -20°C / max. +85°C

Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	145 mm 3,0 W	285 mm 6,0 W	565 mm 11,9 W	845 mm 17,9 W	1.125 mm 23,8 W	1.405 mm 29,8 W	lm/W
>90	2.700 K	white	402 lm	804 lm	1.607 lm	2.411 lm	3.215 lm	4.019 lm	135,0
		black	312 lm	624 lm	1.248 lm	1.872 lm	2.496 lm	3.121 lm	104,9
>90	3.000 K	white	409 lm	818 lm	1.637 lm	2.455 lm	3.274 lm	4.092 lm	137,5
		black	318 lm	636 lm	1.271 lm	1.907 lm	2.542 lm	3.178 lm	106,8
>90	3.500 K	white	419 lm	838 lm	1.676 lm	2.514 lm	3.352 lm	4.190 lm	140,8
		black	325 lm	651 lm	1.301 lm	1.952 lm	2.603 lm	3.253 lm	109,3
>90	4.000 K	white	429 lm	857 lm	1.715 lm	2.572 lm	3.430 lm	4.287 lm	144,1
		black	333 lm	666 lm	1.332 lm	1.998 lm	2.663 lm	3.329 lm	111,9
>90	5.000 K	white	425 lm	850 lm	1.700 lm	2.550 lm	3.401 lm	4.251 lm	142,8
		black	330 lm	660 lm	1.320 lm	1.980 lm	2.641 lm	3.301 lm	110,9

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 – opal, 565 mm

Application
Ideal for uniform light with lambertian light distribution. For general or decorative lighting.

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

