

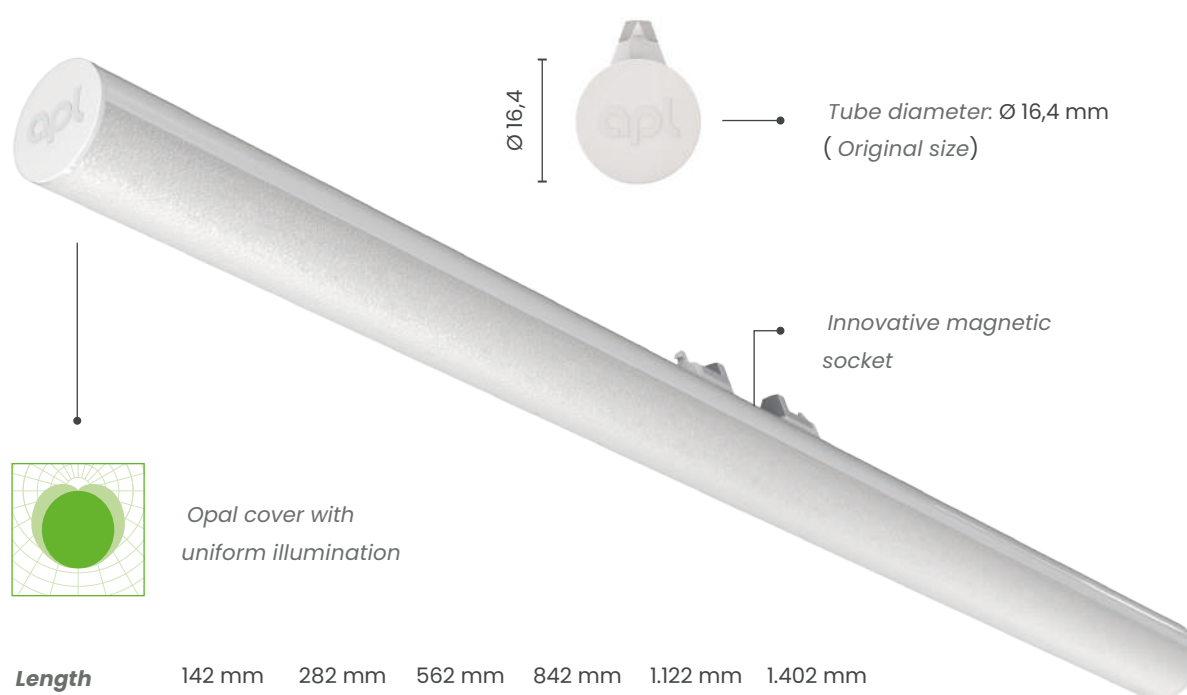
LTwo® MAG – opal

constant voltage

48V – 12 watt/m



reddot winner 2023



Length	142 mm	282 mm	562 mm	842 mm	1.122 mm	1.402 mm
Power	1,7 W	3,5 W	6,9 W	10,4 W	13,8 W	17,3 W
Lumen	265 lm	530 lm	1.060 lm	1.590 lm	2.120 lm	2.651 lm

Product description

LTwo® – Light Tube with Optics. Opal cover with max. 4,287 lumen, based on the modular, miniaturised LTwo® light source/ luminaire system with 13 high-quality precision optics and extensive accessories for all lighting applications. With newly developed, multifunctional lamp/luminaire holder for easy, tool-free, magnetic installation and angle adjustment in +/-20°, as well as locking. Coded socket for safe operation of lamp luminaires with different operation modes in Constant Voltage or Constant Current. Very environmentally friendly due to minimal use of material (180g/m), interchan-geability, 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

142 mm, 282 mm, 562 mm, 842 mm, 1.122 mm, 1.402 mm

Weight

25 g, 46 g, 89 g, 132 g, 175 g, 218 g

Housing colour

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

Wattages

1,7 W; 3,5 W; 6,9 W; 10,4 W; 13,8 W; 17,3 W

Lumen @ 4.000 K

265 lm, 530 lm, 1.060 lm, 1.590 lm, 2.120 lm, 2.651 lm

Efficiency

153,4 lm/W (WW), 119,1 lm/W (BB)

Light distribution

Opal (Lambertian emitter)

LED quantity

32 per 280 mm

UGR

WW: 28,7 / 25,3 & BB: 27,7 / 24,5 (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. +45°C

Storage temperature (T_s)

min. -20°C / max. +85°C

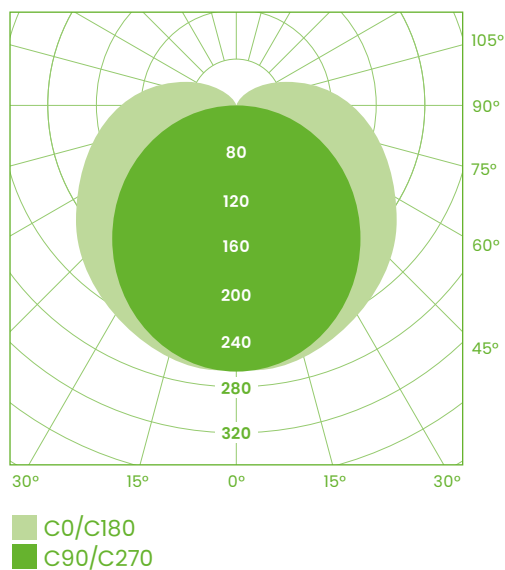
Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	142 mm 1,7 W	282 mm 3,5 W	562 mm 6,9 W	842 mm 10,4 W	1.122 mm 13,8 W	1.402 mm 17,3 W	lm/W
>90	2.700 K	white	247 lm	493 lm	987 lm	1.480 lm	1.974 lm	2.467 lm	142,8
		black	192 lm	383 lm	766 lm	1.150 lm	1.533 lm	1.916 lm	110,9
>90	3.000 K	white	253 lm	506 lm	1.011 lm	1.517 lm	2.023 lm	2.528 lm	146,3
		black	196 lm	393 lm	785 lm	1.178 lm	1.571 lm	1.963 lm	113,6
>90	3.500 K	white	258 lm	515 lm	1.031 lm	1.546 lm	2.062 lm	2.577 lm	149,1
		black	200 lm	400 lm	801 lm	1.201 lm	1.601 lm	2.001 lm	115,8
>90	4.000 K	white	265 lm	530 lm	1.060 lm	1.590 lm	2.120 lm	2.651 lm	153,4
		black	206 lm	412 lm	823 lm	1.235 lm	1.647 lm	2.058 lm	119,1
>90	5.000 K	white	263 lm	525 lm	1.050 lm	1.576 lm	2.101 lm	2.626 lm	152,0
		black	204 lm	408 lm	816 lm	1.224 lm	1.631 lm	2.039 lm	118,0

Optical and electronic data have a tolerance of ±10 %.

The T_c point must be measured at thermal equilibrium in accordance with IEC EN 60598-1

Light distribution



LTwo® schwarz / black – opal, 562mm

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	12	10				MAG	IP40
				282	927	BB		
				562	930	WW		
				842	935			
				1122	940			
				1402	850			

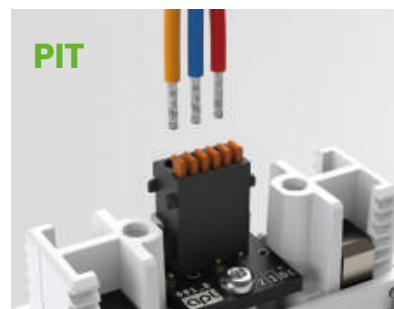
OP = Operating mode
 CV = Constant Voltage
 CC = Constant Current
NP = Nominal power per m (W/m)
 12-25 = 12 W/m | 20 W/m | 25 W/m
Optic = Optic (Degree)
 10-60 = 10° HB | 13° | 25° | 40° | 60°
 BWN | BW = Batwing narrow | Batwing wide
 OVL | WW = Oval | Wall washer
 OP | DF | CL = Opal | Diffuse | Clear

L = Length (mm)
 142-1402 = 142 mm | 82 mm | 62 mm | 42 mm | 122 mm | 402 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
 MAG = Magnetic luminaire holder
IP = Protection class
 IP40 = Indoor use only



Under the following link you will find the tender specification for the product:
<https://apl.ag/products/>

LTwo® accessories



LTwo® magnetic lampholder

The "LTwo® magnetic lamp holder" is required to operate the LTwo®. Select the "PIT block" variant to connect the lamp holder to the ballast with its own cable. If you prefer a plug-in solution, then select the "JST" variant. To connect this variant to the ballast, the "3-pole cable set with JST" is required. Alternatively, you can choose a pre-wired ballast, in which the cable set is already permanently connected to the ballast. There are a wide range of accessories for mounting the lamp holder. Please refer to our accessories catalog. The accessories are optimized to realize your own lighting project and to easily integrate the LTwo® into all types of materials or the building.



LTwo® to use in track lighting systems

In existing track lighting systems, use the Lumami® TRACK. No further accessories are required here.

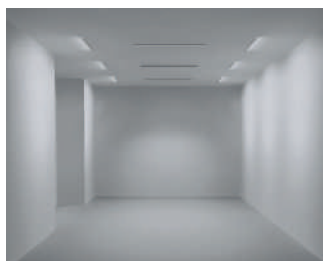


LTwo® as linear Downlight To use the LTwo as a linear downlight from the standard mounting holes, use Lumami® DOWNLIGHT.



LTwo® to use in apl luminaires

If you choose an apl luminaire (e.g. Lumami® DESK), no further accessories are required.



LTwo® into your project Please contact us at the following service address. We will be happy by integrating LTwo® in your project.
info@apl.ag