

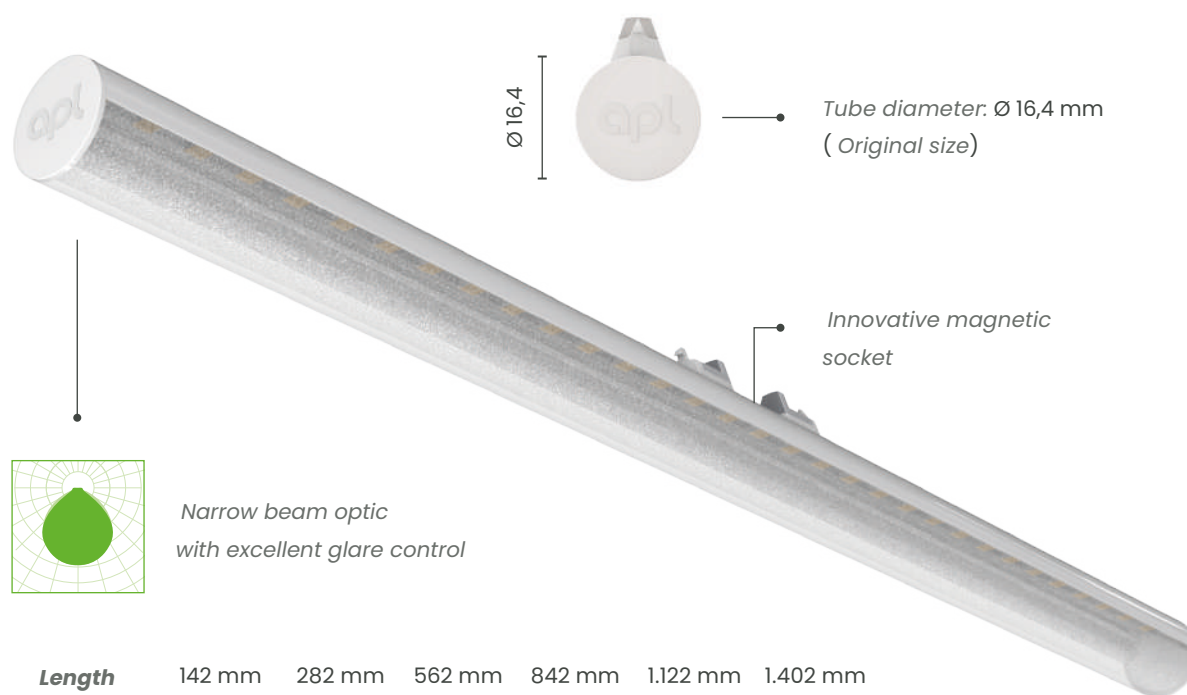
LTwo® MAG – 100° diffuse

constant voltage

48V – 20 watt/m



reddot winner 2023



Length	142 mm	282 mm	562 mm	842 mm	1.122 mm	1.402 mm
Power	3,0 W	6,0 W	11,9 W	17,9 W	23,8 W	29,8 W
Lumen	455 lm	910 lm	1.820 lm	2.730 lm	3.639 lm	4.549 lm

Product description

LTwo® – Light Tube with Optics. Diffuse cover with max. 4,549 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 $\pm 20^\circ$, 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), 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

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

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

Lumen @ 4.000 K

455 lm, 910 lm, 1.820 lm, 2.730 lm, 3.639 lm, 4.549 lm

Efficiency

152,9 lm/W (WW), 134,9 lm/W (BB)

Light distribution

100° diffuse

LED quantity

32 per 280 mm

UGR

WW: 25,6 / 27,9 & BB: 24,4 / 27,6 (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 when uniform light distribution without hard shadows and with high efficiency is required.

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

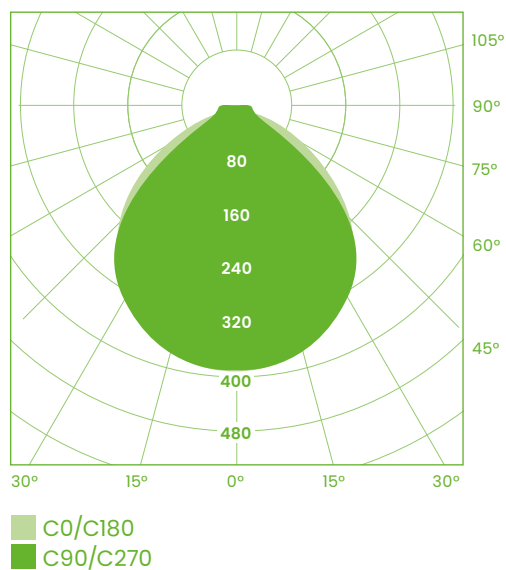
Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	142 mm 3,0 W	282 mm 6,0 W	562 mm 11,9 W	842 mm 17,9 W	1.122 mm 23,8 W	1.402 mm 29,8 W	lm/W
>90	2.700 K	white	426 lm	853 lm	1.706 lm	2.558 lm	3.411 lm	4.264 lm	143,3
		black	376 lm	753 lm	1.505 lm	2.258 lm	3.011 lm	3.764 lm	126,5
>90	3.000 K	white	434 lm	868 lm	1.737 lm	2.605 lm	3.474 lm	4.342 lm	145,9
		black	383 lm	766 lm	1.533 lm	2.299 lm	3.066 lm	3.832 lm	128,8
>90	3.500 K	white	445 lm	889 lm	1.778 lm	2.667 lm	3.556 lm	4.446 lm	149,4
		black	392 lm	785 lm	1.570 lm	2.354 lm	3.139 lm	3.924 lm	131,8
>90	4.000 K	white	455 lm	910 lm	1.820 lm	2.730 lm	3.639 lm	4.549 lm	152,9
		black	402 lm	803 lm	1.606 lm	2.409 lm	3.212 lm	4.015 lm	134,9
>90	5.000 K	white	451 lm	902 lm	1.804 lm	2.706 lm	3.608 lm	4.510 lm	151,6
		black	398 lm	796 lm	1.592 lm	2.389 lm	3.185 lm	3.981 lm	133,8

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® schwarz / black – 100° diffuse, 562mm

Application

Ideal when uniform light distribution without hard shadows and with high efficiency is required.

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			

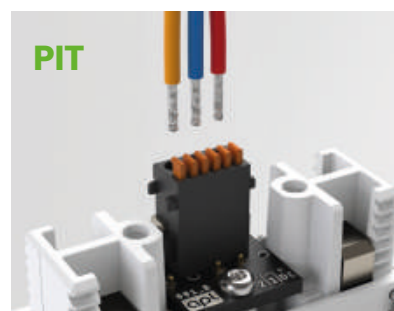
OP = Operating mode
 CV = Constant Voltage
 CC = Constant Current
NP = Nominal power per m (W/m)
 12-25 = 12 W/m | 20 W/m | 25 W/m
Optic = Optic (Degree)
 10-60 = 10° HB | 13° | 25° | 40° | 60°
 BWN | BWV = Batwing narrow | Batwing wide
 OVL | WW = Oval | Wall washer
 OP | DF | CL = Opal | Diffuse |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

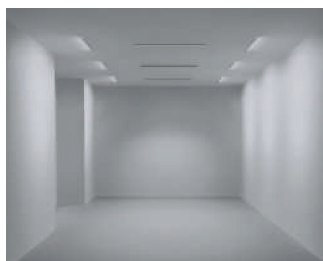


LTwo® as linear Downlight To use the LTwo as a linear downlight from the standard mounting holes, use Lumami® DOWNLIGHT.



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