

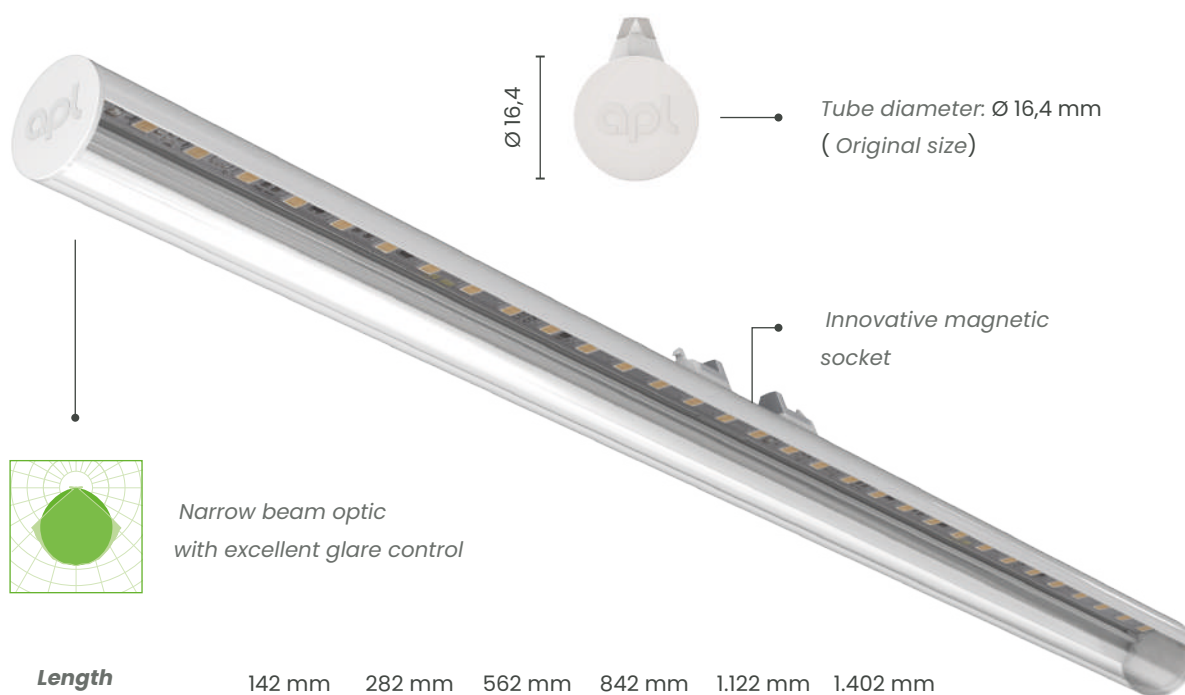
LTwo® MAG – 100° clear

constant voltage

48V – 20 watt/m



reddot winner 2023



Narrow beam optic
with excellent glare control

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	464 lm	928 lm	1.855 lm	2.783 lm	3.711 lm	4.639 lm

Product description

LTwo® – Light Tube with Optics. Clear cover with max. 4,639 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 $\pm 20^\circ$, 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

Gehäusefarben / 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

464 lm, 928 lm, 1.855 lm, 2.783 lm, 3.711 lm, 4.639 lm

Efficiency

155,9 lm/W (WW), 138,8 lm/W (BB)

Light distribution

100° clear

LED quantity

32 per 280 mm

UGR

WW: 25,0 / 28,7 & BB: 24,0 / 28,4 (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 a lot of light, with high efficiency and without special glare control requirements is needed.

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

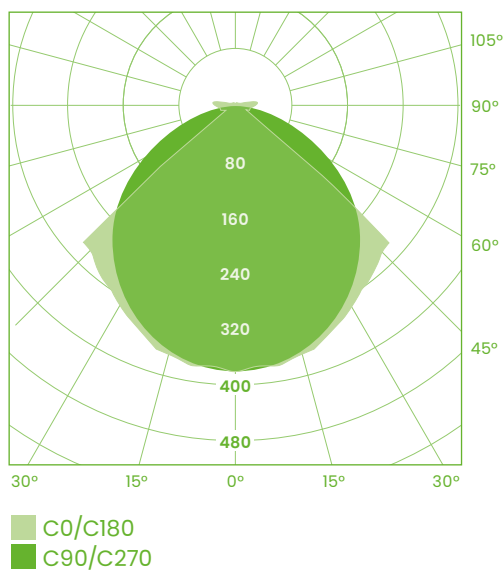
Length, lumen, watt

CRI	CCT / Kelvin	Farbe / Color	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	435 lm	870 lm	1.739 lm	2.609 lm	3.478 lm	4.348 lm	146,1
		black	387 lm	774 lm	1.549 lm	2.323 lm	3.098 lm	3.872 lm	130,1
>90	3.000 K	white	443 lm	885 lm	1.771 lm	2.656 lm	3.542 lm	4.427 lm	148,8
		black	394 lm	789 lm	1.577 lm	2.366 lm	3.154 lm	3.943 lm	132,5
>90	3.500 K	white	453 lm	907 lm	1.813 lm	2.720 lm	3.626 lm	4.533 lm	152,3
		black	404 lm	807 lm	1.615 lm	2.422 lm	3.230 lm	4.037 lm	135,7
>90	4.000 K	white	464 lm	928 lm	1.855 lm	2.783 lm	3.711 lm	4.639 lm	155,9
		black	413 lm	826 lm	1.652 lm	2.479 lm	3.305 lm	4.131 lm	138,8
>90	5.000 K	white	460 lm	920 lm	1.840 lm	2.759 lm	3.679 lm	4.599 lm	154,5
		black	410 lm	819 lm	1.638 lm	2.457 lm	3.277 lm	4.096 lm	137,6

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 – 100° clear, 562mm

Application

Ideal when a lot of light, with high efficiency and without special glare control requirements is needed.

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			

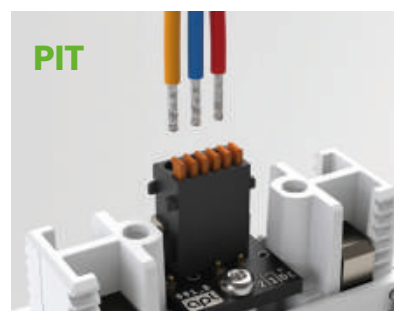
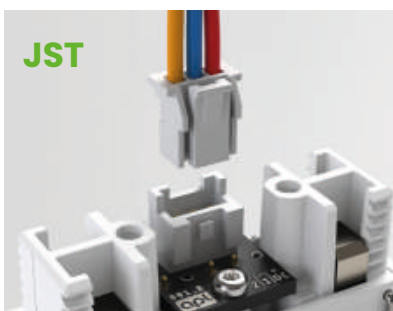
OP = Operating mode
 CV = Constant Voltage
 CC = Constant Current
NP = Nominal power per m (W/m)
 12-25 = 12 W/m | 20 W/m | 25 W/m
Optic = Optic (Degree)
 10-60 = 10° HB | 13° | 25° | 40° | 60°
 BWN | BWW = Batwing narrow | Batwing wide
 OVL | WW = Oval | Wall washer
 OP | DF | CL = Opal | Diffuse |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

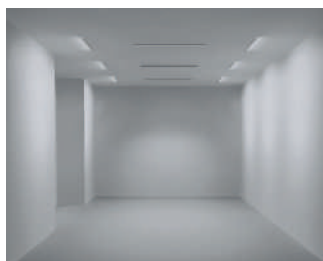


LTwo® as linear Downlight To use the LTwo as a linear downlight from the standard mounting holes, use Lumami® DOWNLIGHT.



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