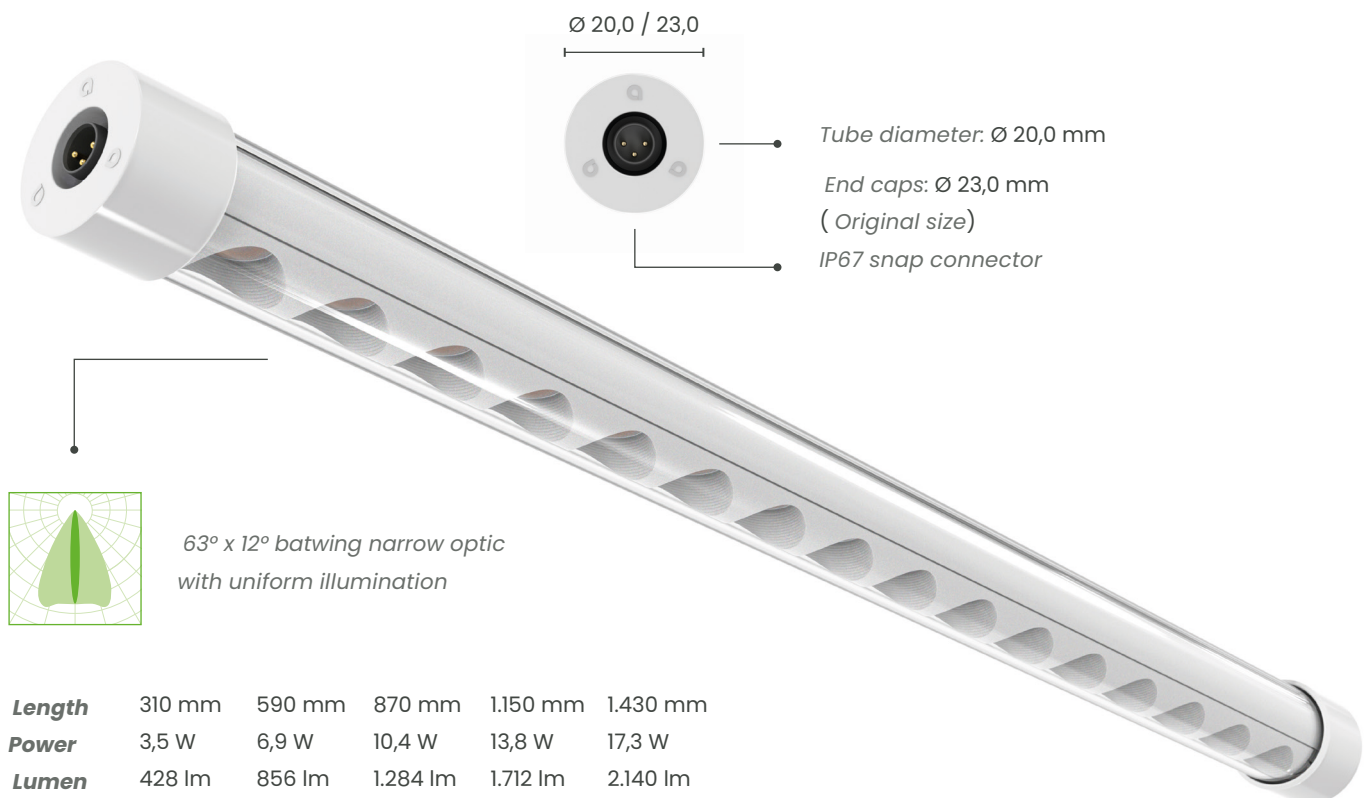


# LTwo® OUTDOOR – IP67

## batwing narrow

## constant voltage 48V – 12 watt/m



### Product description

LTwo® OUTDOOR – Light Tube with Optics in IP67 for outdoor use. 63° x 12° batwing narrow optic with max. 2,140 lumen, based on the modular, miniaturized LTwo® light source/luminaire system with 13 high-quality precision optics and extensive accessories for all lighting applications.

Simple and inexpensive installation with standard installation material. 360° freely rotatable for ideal alignment and maximum flexibility. With IP67 snap connector for quick and tool-free installation. Very environmentally friendly due to minimal use of material (250 g/m), interchangeability, recyclability and high efficiency (up to 178 lm/W). Ideally suited for high-quality architectural lighting in outdoor areas.

## Product features



Legende / Legend

### Dimensions

Ø 20,0 mm

### Length

310 mm, 590 mm, 870 mm, 1.250 mm, 1.430 mm

### Weight

58 g, 92 g, 161 g, 229 g, 297 g, 366 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

428 lm, 856 lm, 1.284 lm, 1.712 lm, 2.140 lm

### Efficiency

123,8 lm/W (WW), 107,6 lm/W (BB)

### Light distribution

63° x 12° batwing narrow

### LED quantity

16 per 280 mm

### UGR (<19)

WW: 17,4 / 13,5 & BB: 16,9 / 13,0 (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

### Application

Linear batwing optic for precise and efficient illumination of aisles and rows of shelves.

### Protection

IP67 ( Outdoor)

### 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<sub>c</sub>)

min. -20°C / max. +65°C

### Ambient temperature (T<sub>a</sub>)

min. -20°C / max. +45°C

### Storage temperature (T<sub>s</sub>)

min. -20°C / max. +85°C

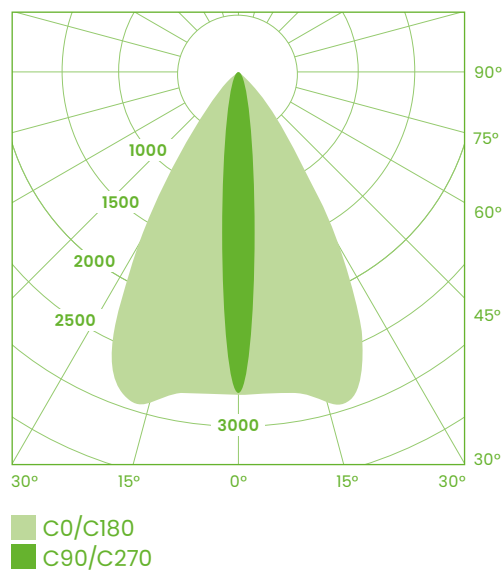
## Length, lumen, watt

| CRI | CCT / Kelvin | Farbe / Color | 310 mm<br>3,5 W | 590 mm<br>6,9 W | 870 mm<br>10,4 W | 1.150 mm<br>13,8 W | 1.430 mm<br>17,3 W | lm/W  |
|-----|--------------|---------------|-----------------|-----------------|------------------|--------------------|--------------------|-------|
| >90 | 2.700 K      | white         | 331 lm          | 663 lm          | 994 lm           | 1.326 lm           | 1.657 lm           | 95,9  |
|     |              | black         | 288 lm          | 576 lm          | 865 lm           | 1.153 lm           | 1.441 lm           | 83,4  |
| >90 | 3.000 K      | white         | 336 lm          | 671 lm          | 1.007 lm         | 1.342 lm           | 1.678 lm           | 97,1  |
|     |              | black         | 292 lm          | 583 lm          | 875 lm           | 1.167 lm           | 1.458 lm           | 84,4  |
| >90 | 3.500 K      | white         | 342 lm          | 683 lm          | 1.025 lm         | 1.366 lm           | 1.708 lm           | 98,8  |
|     |              | black         | 297 lm          | 594 lm          | 891 lm           | 1.188 lm           | 1.485 lm           | 85,9  |
| >90 | 4.000 K      | white         | 356 lm          | 711 lm          | 1.067 lm         | 1.422 lm           | 1.778 lm           | 102,9 |
|     |              | black         | 309 lm          | 618 lm          | 927 lm           | 1.237 lm           | 1.546 lm           | 89,5  |
| >80 | 5.000 K      | white         | 428 lm          | 856 lm          | 1.284 lm         | 1.712 lm           | 2.140 lm           | 123,8 |
|     |              | black         | 372 lm          | 744 lm          | 1.116 lm         | 1.488 lm           | 1.860 lm           | 107,6 |

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® OUTDOOR schwarz / black – batwing narrow, 590 mm

### Application

Linear batwing optic for precise and efficient illumination of aisles and rows of shelves.

## Order code

| Product    | OP | NP | Optic | L    | PC  | C  | LH | IP   |
|------------|----|----|-------|------|-----|----|----|------|
| APL-LTwoT5 | CV | 12 | 10    |      |     |    | OD | IP67 |
|            |    |    |       | 310  | 927 | BB |    |      |
|            |    |    |       | 590  | 930 | WW |    |      |
|            |    |    |       | 870  | 935 |    |    |      |
|            |    |    |       | 1150 | 940 |    |    |      |
|            |    |    |       | 1430 | 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 | BWB = Batwing narrow | Batwing wide  
 OVL | WW = Oval | Wall washer  
 OP | DF | CL = Opal | Diffuse | Clear

**L** = Length (mm)  
 170-1430 = 170 mm | 10 mm | 90 mm | 70 mm | 150 mm | 430 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  
 OD = Outdoor  
**IP** = Protection class  
 IP67 = Suitable for outdoor use



Under the following link you will find the tender specification for the product:

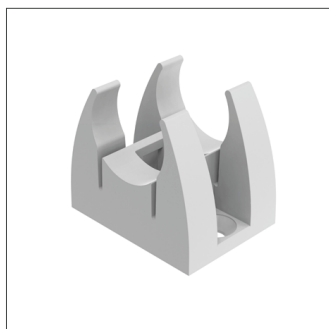
<https://apl.ag/products/>

## LTwo® OUTDOOR accessories



### **2m Cable with 8mm snap connector for LTwo OUTDOOR**

2m cable 22 AWG 3 Conductor in black with 8mm snap connector and open cable end. Compatible with all LTwo® OUTDOOR. + = brown, -1 = blue, -2 = black (-2 is for tunable white).



### **Mounting clip with lock for LTwo OUTDOOR in white**

Mounting clip in white for LTwo® OUTDOOR. This mounting clip offers the option of securing the LTwo® OUTDOOR with a cable tie to prevent tool-free removal.



### **Mounting clip with lock for LTwo OUTDOOR in black**

Mounting clip in black for LTwo® OUTDOOR. This mounting clip offers the option of securing the LTwo® OUTDOOR with a cable tie to prevent tool-free removal.



**Mounting clip for LTwo OUTDOOR in white** Mounting clip in white for LTwo® OUTDOOR.



**Mounting clip for LTwo OUTDOOR in black** Mounting clip in black for LTwo® OUTDOOR.