

DnS Light Bar



L112GW18B-1.0

L112GW18B-1.2

L112GW18B-1.5

Areas of application

- Single & double side light box,
- Best for 80mm to 300mm depth (3inch to 12inch).

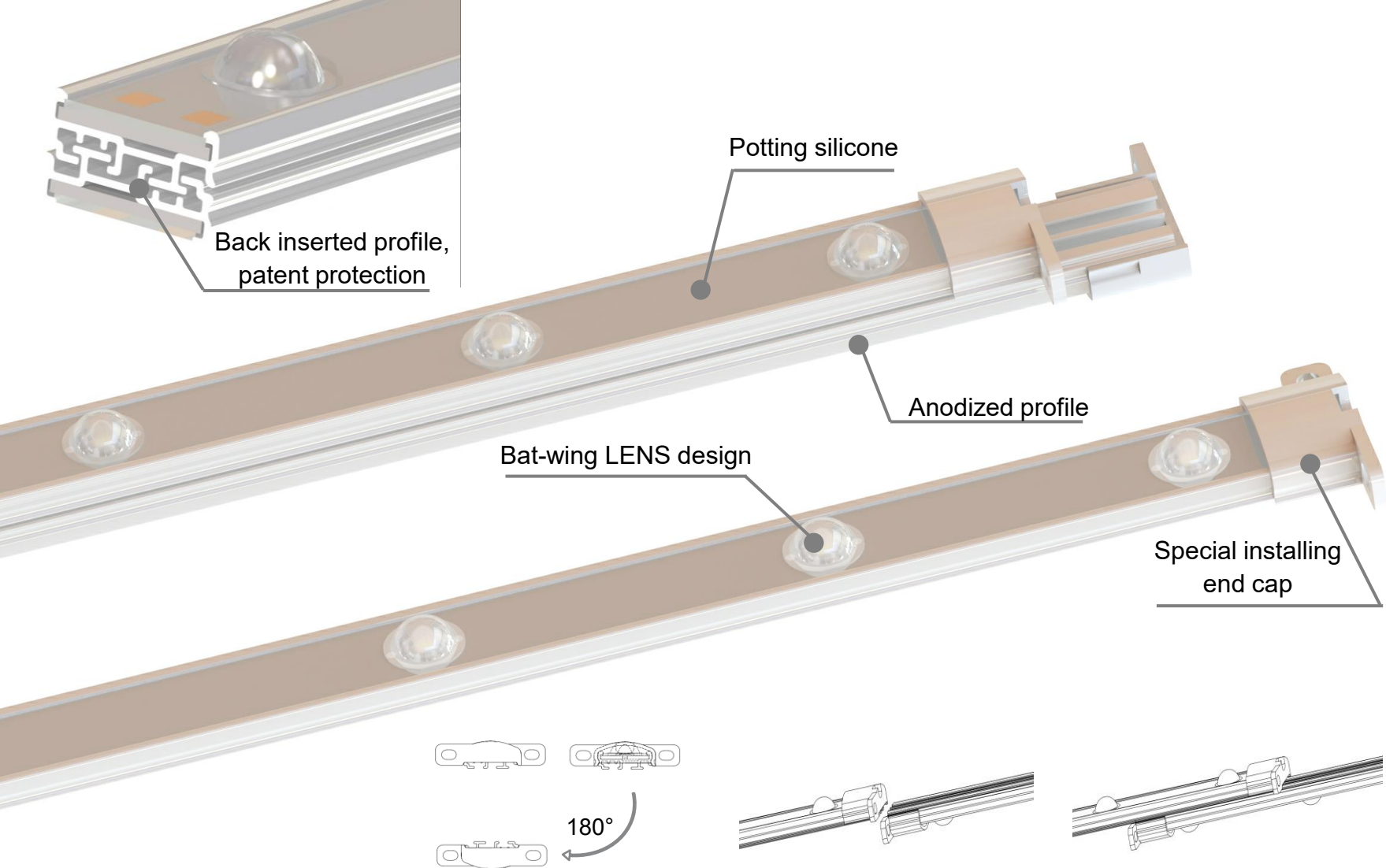
Product main benefits

- **Back inserted extruded aluminum design, patent protection, applied to single side and double side light box,**
- Special end cover design, can be installed in single side and double side light box,
- Anodized aluminum profile, strong corrosion resistance,
- High quality potting silicone, Strong resistance to yellowing,
- Good optical performance due to bat-wing lens design,
- 5 Years warranty,
- 13.5W/meter,
- IP66.

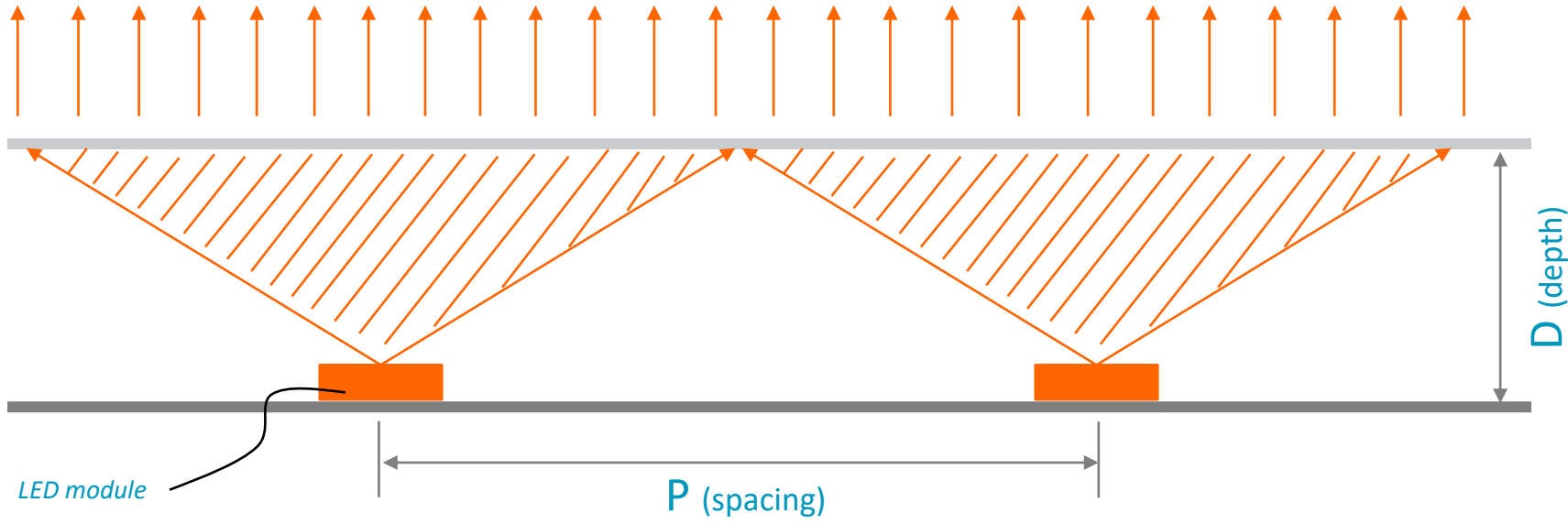


EPISTAR

L112GW18B-xx



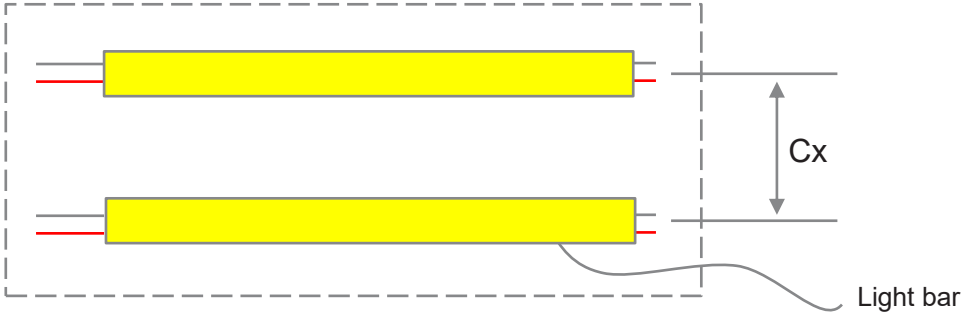
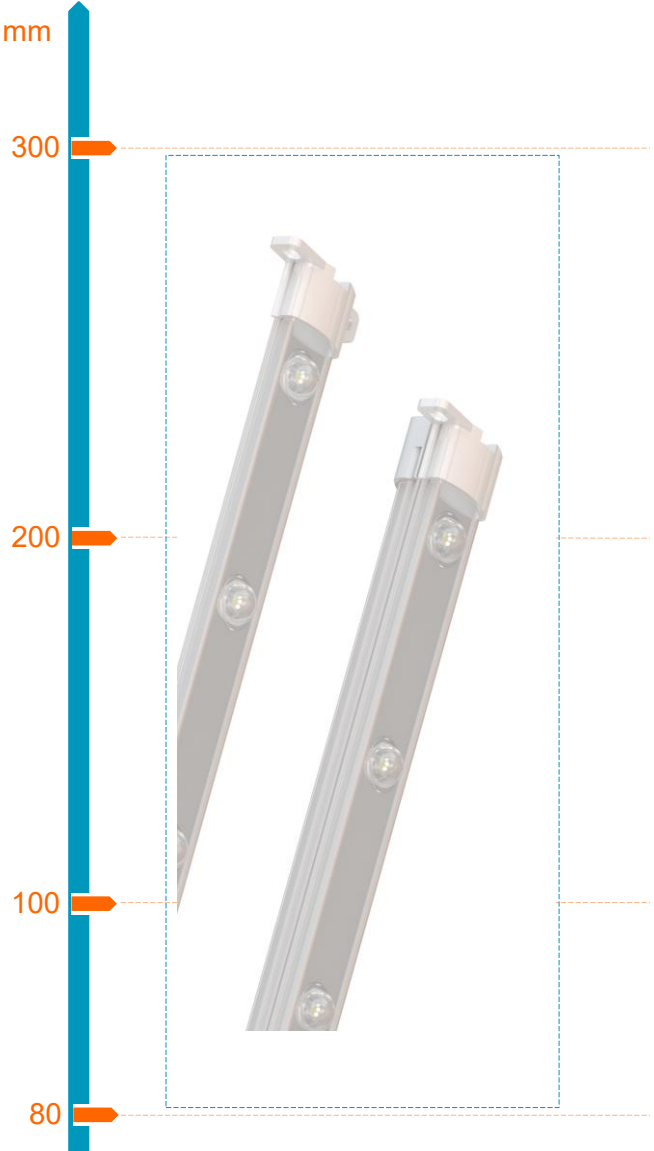
Optics Technology



optical performance proportion = $\frac{D(\text{depth})}{P(\text{spacing})} = 1:2.5$

- The proportion of “P” and “D” can show the performance of lens optics design.
- The bigger proportion, the wider light spot.

Application



Depth	Single side light box		Double side light box	
	Cx	Surface illuminance	Cx	Surface illuminance
80mm	200mm	~1200lux	100mm	~2400lux
100mm	250mm	~1000lux	125mm	~2000lux
200mm	300mm	~600lux	250mm	~1200lux
300mm	300mm	~450lux	300mm	~900lux

Electrical

PART NUMBERS	Typical Voltage	Energy Consumption (W/m)
L112GW16B-0.5	24VDC	7
L112GW16B-1.0	24VDC	13.5
L112GW16B-1.2	24VDC	16
L112GW16B-1.5	24VDC	20

Remark:

1. Ranking at $t_a = 25^\circ\text{C}$.
2. Constant voltage design.

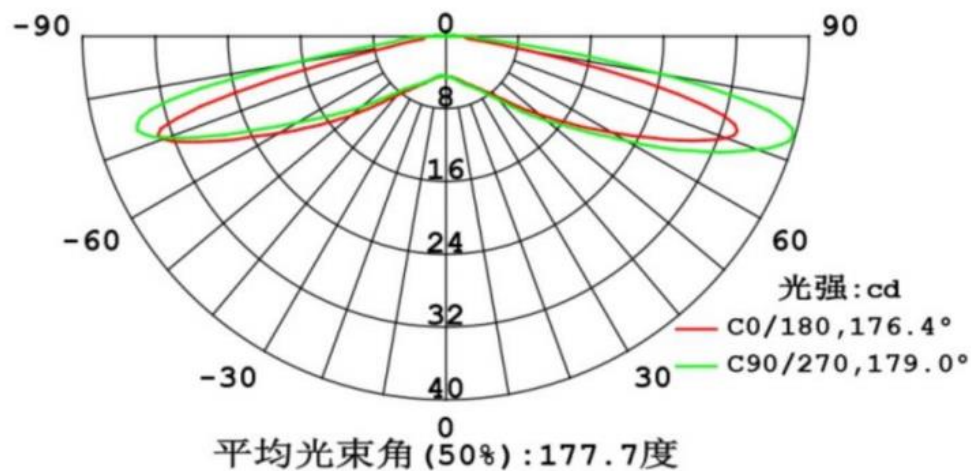
Photometrical data

PART NUMBERS	Light color (designation)	Color (CCT, wavelength)	Typical Brightness (lumen/pcs)	Typical Brightness (lumen/ft.)
L112GW16B-1.0	White	5000K-17000K	1400	427
L112GW16B-1.2			1680	
L112GW16B-1.5			2100	

1. Ranking at $t_a = 25^\circ\text{C}$.
2. Tolerance of measurements for brightness is $\pm 10\%$, tolerance of measurements for the Chromaticity Coordinate is ± 0.01 ; the tolerance of CCT should be calculated accordingly, $R_a > 70$.

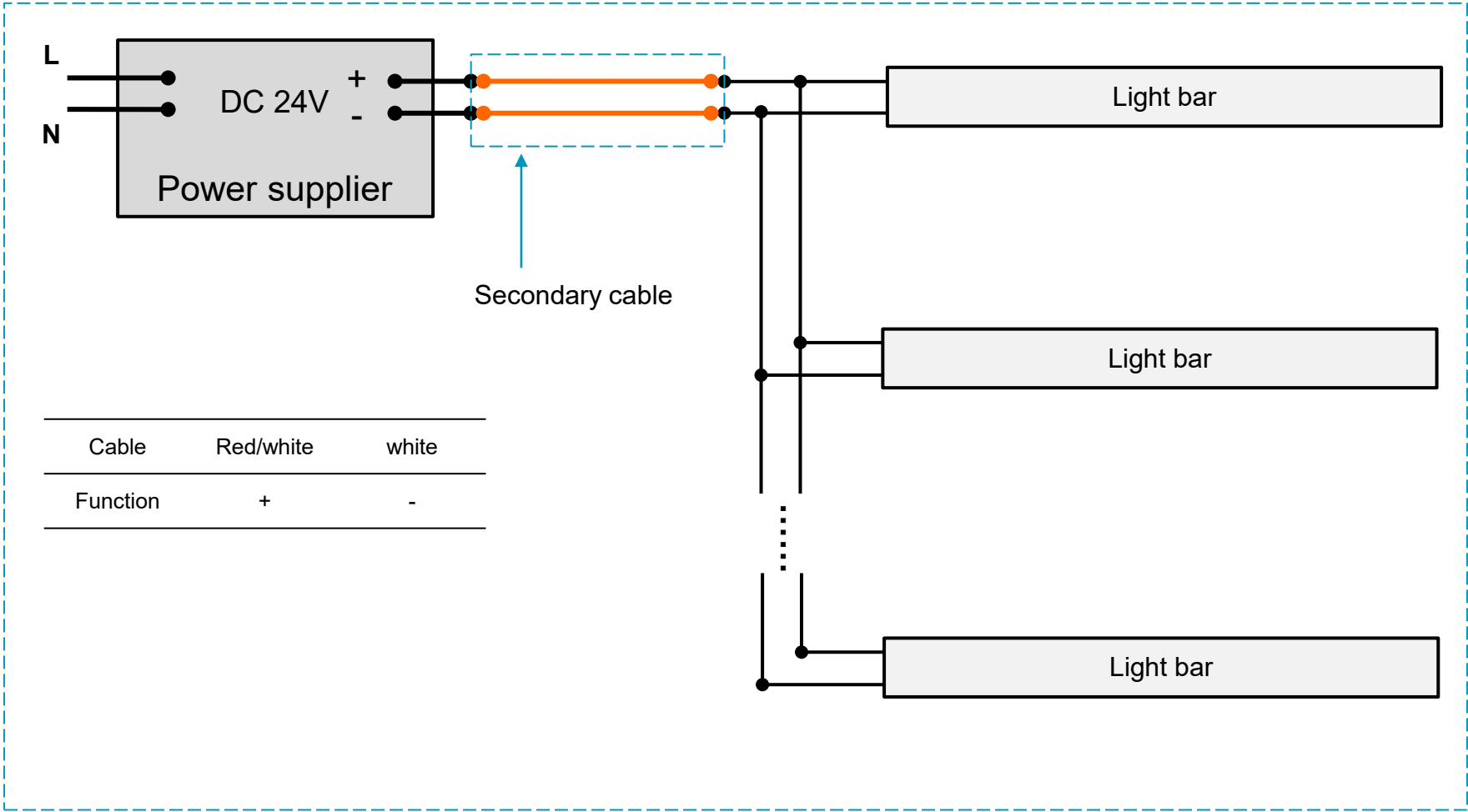
Application Conditions and light distribution

Operating Environment (t_a)	-25°C to +60°C
Storage Temperature Range (t_s)	-40°C to +85°C
IP Rating	IP66
Lifetime (L70B50)	50,000 hours
t_c temperature	80°C
Dimming mode	Dimmable



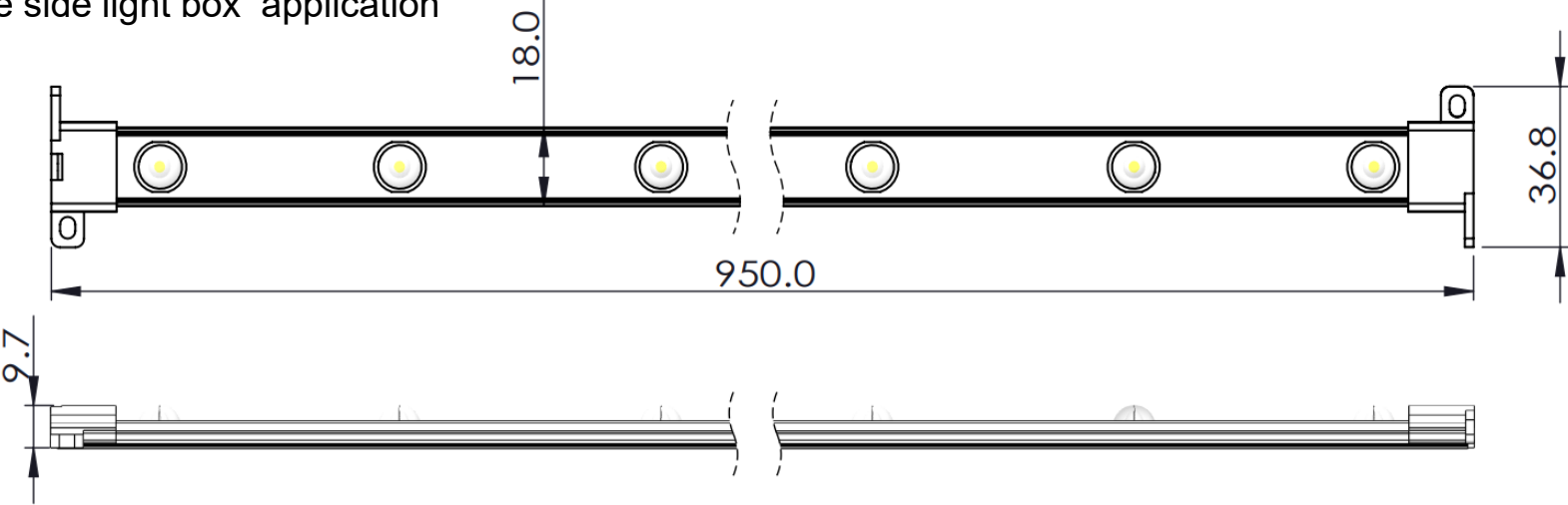
Beam angle: 175°

Wiring method

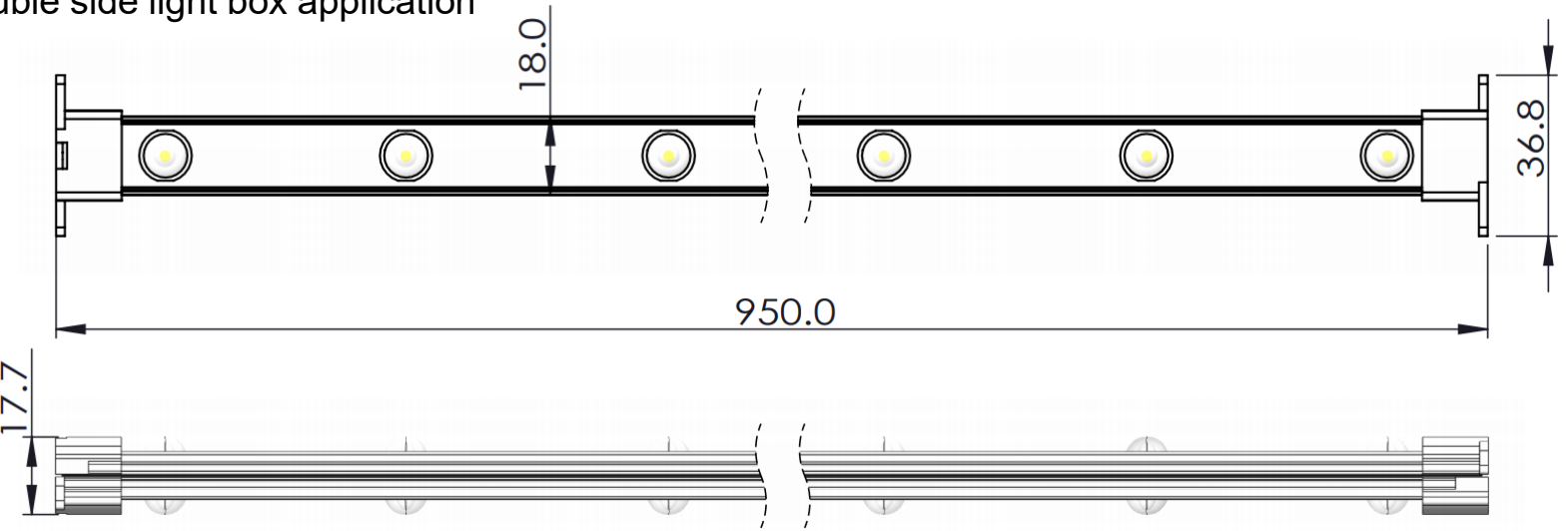


Drawing

Single side light box application



Double side light box application



Package and additional information

PRODUCTS	PART NUMBERS	Package unit (modules/carton box)	Carton box Dimensions (length x width x height)
Back inserted light bar	L112GW16B-1.0	/	/
	L112GW16B-1.2	/	/
	L112GW16B-1.5	/	/

Additional information:

- Installation of LED light bars (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED light bar is discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the light bars. Please refer to the technical data for maximum number of LED light bars that can be operated on one control gear.
- To avoid mechanical damage, the LED light bars have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED light bars are dimmable by means of PWM (pulse width modulation).