

LED module / white

1SLN3Woptic-B



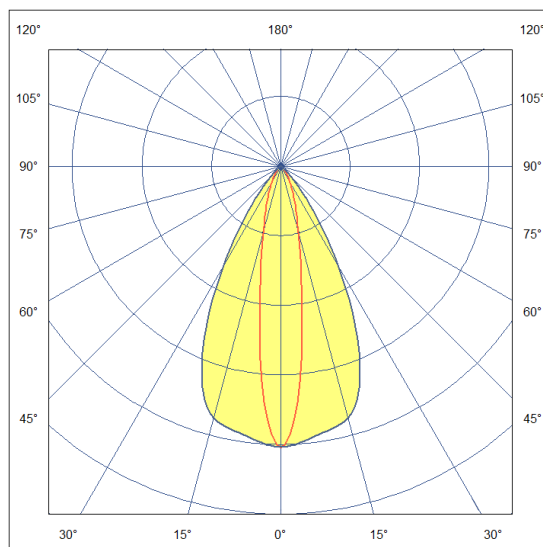
Usage areas

- edge-lighting of advertising lightboxes with depth 60mm and more, heights from 1 up to 10 m (length is irrelevant, of course), illumination of advertising spaces and billboards

Product characteristics

- thanks to special optics, the modules can illuminate up to 10 m width from edges
- newest generation of **Nichia** LEDs from Japan
- high luminous efficacy up to **156 lm/W** means savings on power supply performance and energy costs for your clients
- high luminous flux up to **500 lm** with beam angle 10° x 70°
- **5-year** warranty

Photometrics



Light distribution ca. 10° x 70°

Technical parameters

parameter	value
supply voltage*	2,9-3,1 V
supply current*	up to 1050 mA
input	up to 3,2 W
luminous flux**	420-500 lm
color temperature	1800-6500 K
beam angle	10° x 70°
operating temperature	from -30 to +55°C
cable length between modules	200 mm
dimensions of the module	13 x 24 x 31 mm
weight (1 module)	12 g

* this type of LED module is supplied with constant current 1050 mA, which means that the supply voltage depends on the quantity of connected LED modules

** luminous flux depends on the color temperature and CRI

Module structure



high-quality lens with elliptical beam angle $10^{\circ} \times 70^{\circ}$ directs the light exactly where needed without unnecessary losses



adhesive with high temperature resistance from -50 to $+100^{\circ}\text{C}$ and long lifespan



the heart of our LED modules are top-quality diodes from japanese company **Nichia**, powered by optimal current to maintain long lifespan and high efficiency.



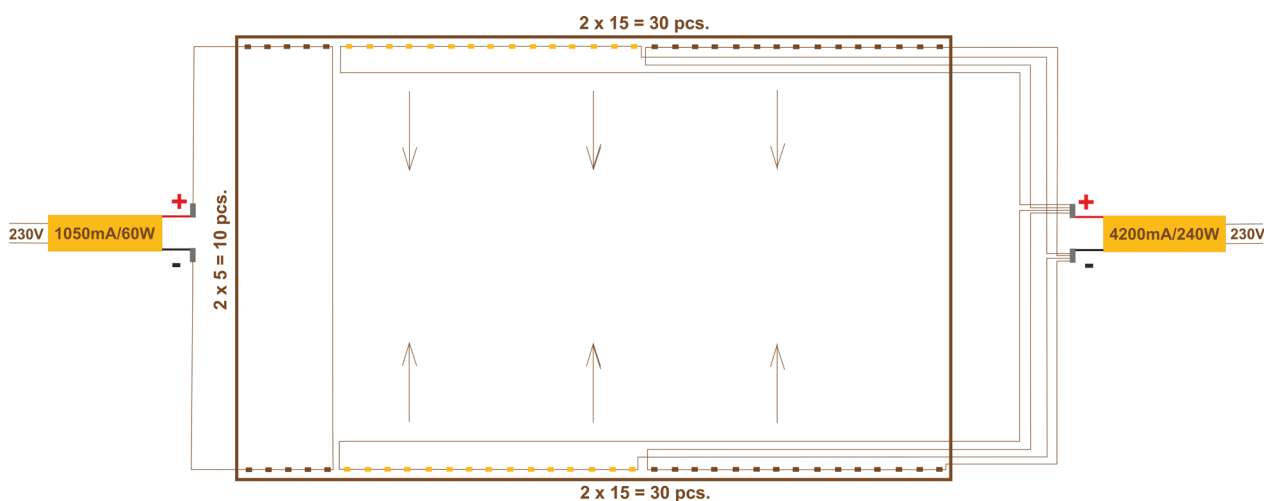
almost invisible, but 100% reliable quality protector of our LED modules is special UV stable silicone coating from **Dowsil**



our PCBs meet the highest quality requirements for long service life of our LED modules in all conditions, even outdoors

LED modules connection diagram for a panel 1500 x 6300 mm

- 1SLN3Woptic-B modules are assembled on edges 2×6300 mm in a quantity of 2×35 pcs.
- The modules are powered by power supplies with stabilized current, typically up to 1050 mA.



Recommendations for installation

- It is important to follow the sequence when connecting the modules to the power supply: first connect the modules to the power supply and only then connect the power supply to the network. The modules must not be connected to the power supply under voltage.
- The modules must be mounted on an aluminum substrate to ensure proper heat dissipation from the modules.
- Each module requires at least 150 cm² of cooling surface area. For this purpose, the aluminum structure of the panel itself or an aluminum profile with a minimum thickness of 1.5 mm can be used.
- The modules may only be operated after they have been adhered to an aluminum surface.
- The modules should be adhered in the exact direction as they are interconnected, following the axis of the cables and modules. Due to their optics, the modules produce a directed beam in a "strip" pattern. For this reason, the modules must not be rotated during installation - especially not by 90°, as this would result in visible light lines.
- For example, for a lightbox with depth 200mm, we recommend to place the LED modules in 100-160 mm distance from its front side.
- Detailed instructions for module installation are provided in the installation guide supplied with the modules.

Thank you for your interest in our LED modules.