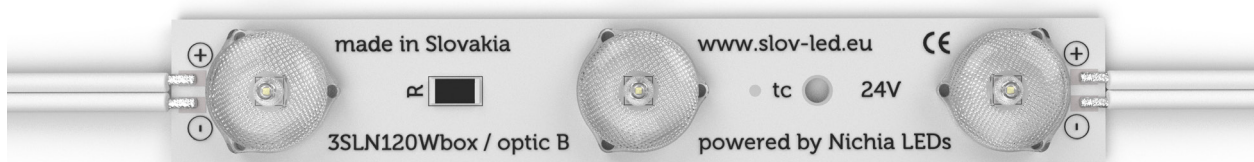


## LED modules / white **3SLN120W box**



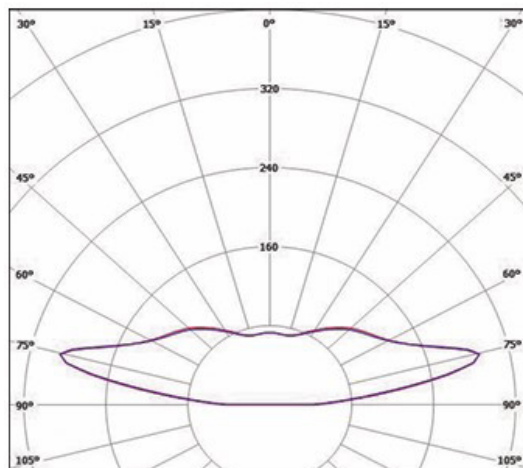
### Use

- interior/exterior
- illumination and backlighting of big advertising signs and panels

### Characteristics of the product

- new generation of LEDs from a Japanese company **Nichia**
- actual luminous efficacy up to **133 lm/W** (with current supply up to 197lm/W)
- beam angle more than **175°**
- **7 years** warranty

## Photometry



beam angle

## Technical parameters

| input voltage | temperature of the white light <sup>1</sup> | CRI <sup>1</sup> | beam angle | working temperature | cable length <sup>2</sup> |
|---------------|---------------------------------------------|------------------|------------|---------------------|---------------------------|
| 24 V          | 2000-6500 K                                 | 70-99            | 175°       | -30°C to +55°C      | 260 mm                    |

| module type | input <sup>3</sup> | luminous flux <sup>4</sup> | specific power | dimensions    | weight |
|-------------|--------------------|----------------------------|----------------|---------------|--------|
| 3SLN120Wbox | 3,6 W              | 480 lm                     | 133 lm/W       | 10x21x12,5 mm | 14 g   |

<sup>1</sup> we can supply you with white light color temperature and CRI in a wide range of precisely selected shades

<sup>2</sup> we will adjust and custom-make the cable length between modules, module spacing and number of modules in a series for you.

<sup>3</sup> the luminous flux depends on the white color temperature of the LEDs and the CRI; warmer shades with higher CRI have lower luminous flux.

## Construction



High-quality clear lens with wide beam angle 175° for an outstanding light effect.



Adhesive with high temperature resistance from -50 to +100°C and long lifetime.



The heart of our LED modules are top-quality diodes from japanese company **Nichia**, supplied by optimal current to maintain their long lifetime and high efficiency

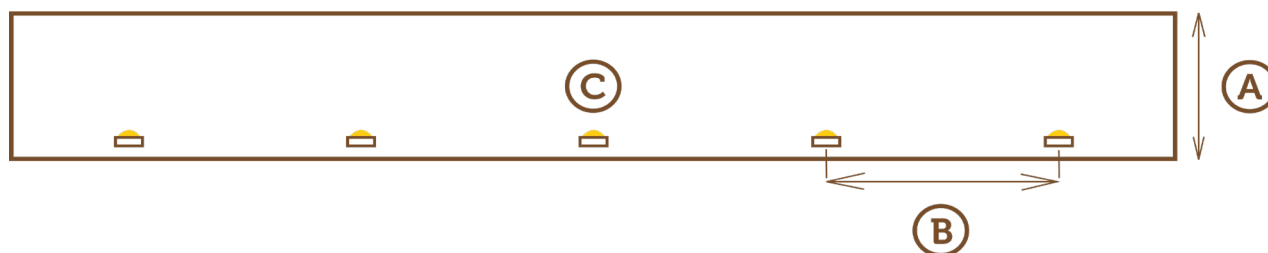


Almost invisible, but 100% reliable quality protector of our LED modules is special UV stable silicone coating from **Dowsil**.



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

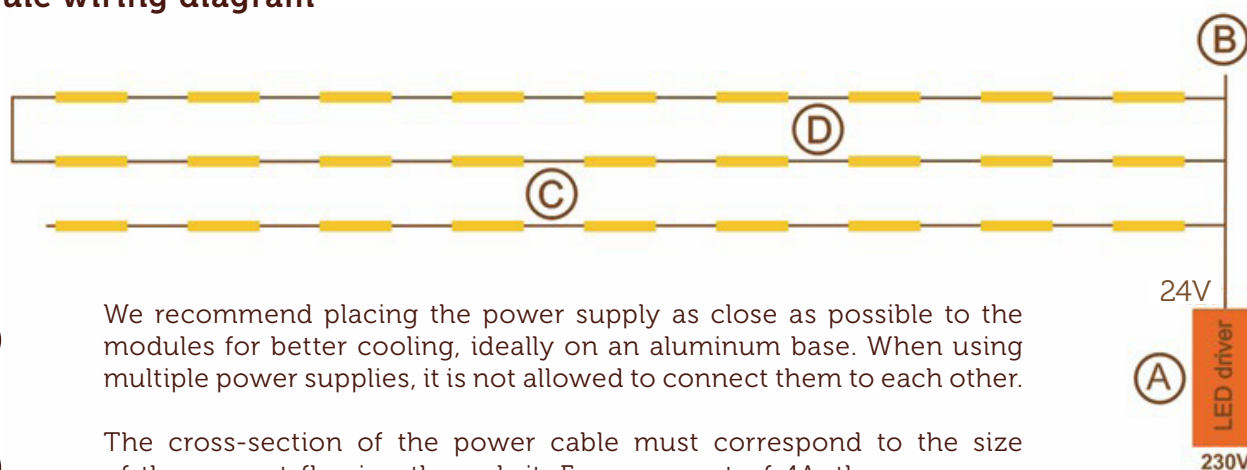
## Module layout diagram



- (A) The modules are suitable for panels with a depth of 180mm or more.
- (B) The spacing of the modules to achieve uniform illumination can be 2 to 4 times the depth of the box (depending on the graphics and the quality of the materials used for illumination).
- (C) With a suitable depth, it is enough to use only 4-8 modules per m<sup>2</sup> for sufficiently intense illumination of the panel.

## Installation

### Module wiring diagram



- (A) We recommend placing the power supply as close as possible to the modules for better cooling, ideally on an aluminum base. When using multiple power supplies, it is not allowed to connect them to each other.
- (B) The cross-section of the power cable must correspond to the size of the current flowing through it. For a current of 4A, the cross-section of the conductor must be at least 1mm<sup>2</sup>, for a current of 8A, it must be at least 2mm<sup>2</sup>. For power supplies with higher power, it is advisable to run the power supply in several parallel branches.
- (C) When connecting modules from one side, such a series can consist of up to 15 modules.
- (D) When connecting modules from two sides, a series of modules can consist of up to 30 modules.

The modules are mounted with screws and rivets of the appropriate size, double-sided tape or glue approved by the manufacturer. We recommend mounting them on dibond or a metal surface.

**Thank you for your interest in the LED modules we produce.**