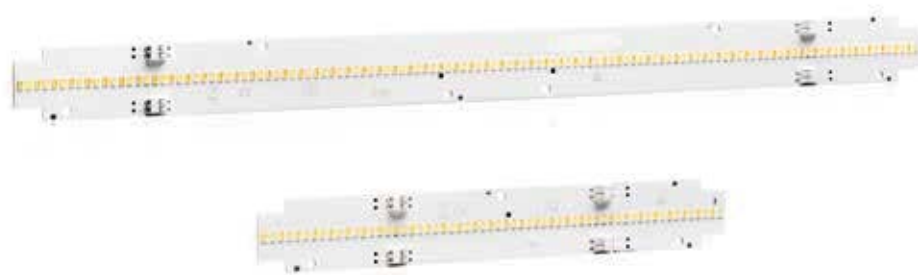


ASTARES MixedWhite B-series

Cold-white/warm-white | Low operating voltage
Very high uniformity | High efficiency
Standard lumen packages

| | |
|---------------------|-----------|
| Industry | ● ● ● ○ ○ |
| Office & Commercial | ● ● ● ● ● |
| Outdoor | ● ○ ○ ○ ○ |
| Shop | ● ● ● ○ ○ |
| Health | ○ ○ ○ ○ ○ |



Performance characteristics

- Linear LED modules for white/white applications
- 2 LED groups for setting the light colour of the mixed light in the range of 2,700 ... 6,500 K
- Optimal homogeneity of light distribution due to number and positioning of the LEDs
- Colour rendering with a CRI value of up to 86
- Very low tolerance in the colour temperature with 3 SDCM
- Very high efficiency of the LED modules with up to 154 lm/W
- LED modules suitable for constant current operation in SELV applications
- Straight-forward electrical connection via push-in terminals with push-button
- Easy installation of the modules via screw fastening
- Optimised temperature distribution for simplified heat management in luminaires
- Attuned operation with the ZITARES ICD290 ECG

General technical data

| Photometrical data | |
|--|--|
| Colour consistency (initial) | 3 SDCM |
| Colour consistency (after 60,000 h) | 4 SDCM |
| Light distribution | 120° (FWHM) Lambertian |
| Tolerance of luminous flux | ± 7.5 % at tp = 65 °C |
| Photobiological safety | Class 1 |
| Electrical data | |
| Operating mode | Constant current |
| Max. admissible operating current | 1,050 mA per channel 1,500 mA per module (channel 1 + channel 2) |
| Creepage and clearance distances designed for voltages | max. 120 VDC SELV |
| Tolerance of operating voltage | ± 5 % at tp = 65 °C |
| Installation notes | |
| Type of mounting | M4 screws |
| Torque (tapped thread) | 0.4 ... 0.8 Nm |
| Type of connector | Push-in terminal with release option |
| Wire cross section | 0.2 ... 0.75 mm ² |
| Wire stripping length | 8 mm |
| Temperatures | |
| Performance temperature tp | 65 °C |
| Max. admissible operating temperature tc,max | 75 °C |
| Lifetime | |
| L80B50 at tc = tp = 65 °C | 60,000 h |
| L70B50 at tc,max = 75 °C | 60,000 h |

Conformity

- EN 62031
- EN 62471
- EN 61547
- EN 55015
- EN 62717

Markings

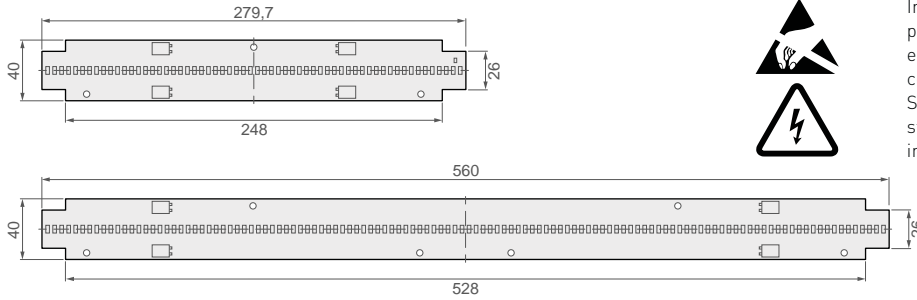


Operating data

| Designation | Order number | Luminous flux | Colour temperature | Colour rendering index | Rated operation current | Operating voltage | Power | Efficiency |
|-------------------------------|--------------|---------------|--------------------|------------------------|-------------------------|-------------------|-------|------------|
| | | lm | K | CRI | mA | VDC | W | lm/W |
| LMC-MW/B-110-827.865-01/L28W4 | 10132586 | 925 | 2700 | 83 | 700 | 8.5 | 6.0 | 154 |
| | | 1100 | | | 850 | 9.0 | 7.7 | 148 |
| | | 925 | 6500 | 86 | 700 | 8.5 | 6.0 | 154 |
| | | 1100 | | | 850 | 9.0 | 7.7 | 148 |
| LMC-MW/B-200-827.865-01/L56W4 | 10132587 | 1850 | 2700 | 83 | 700 | 17.0 | 11.9 | 154 |
| | | 2200 | | | 850 | 18.0 | 15.3 | 148 |
| | | 1850 | 6500 | 86 | 700 | 17.0 | 11.9 | 154 |
| | | 2200 | | | 850 | 18.0 | 15.3 | 148 |

All operating data are referring to nominal operation at $t_a = 65^\circ\text{C}$

Dimensions



Application notes



In case of any handling of the modules precautions against mechanical stress and electrostatic discharge (ESD) have to be considered. System design have to fulfill all safety standards related to electrical supply and installation conditions.

Wiring diagrams

