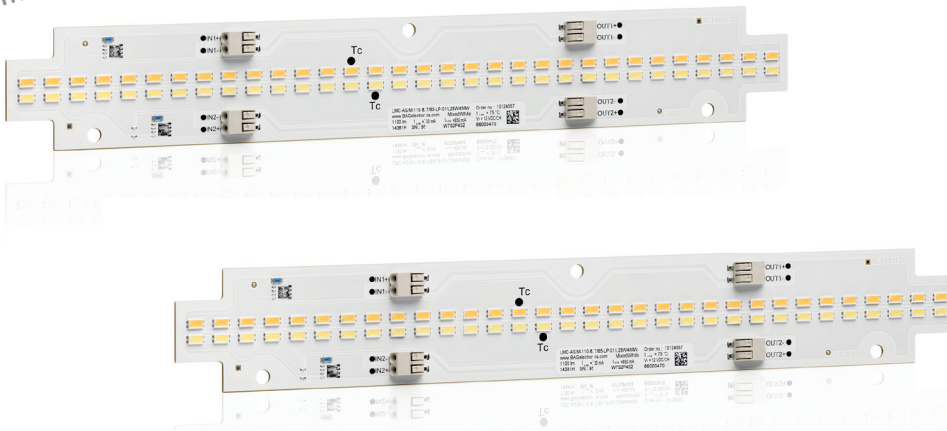


ASTARES linear MixedWhite LED modules in linear shape for white/white applications

preliminary data sheet



Industry	● ○ ○ ○ ○
Office & Commercial	● ● ● ● ●
Outdoor	● ○ ○ ○ ○
Shop	● ● ● ○ ○

5 YEARS
warranty

Product information

- Linear LED modules for use in linear and flat luminaires
- Wide range light colour tuning between CCT 2,700 ... 6,500 K for Human Centric Lighting applications
- Colour rendering of up to CRI 86 for more visual comfort
- Very low tolerance in colour consistency with 3 SDCM
- Very high efficiency of LED modules with up to 150 lm/W
- LED modules suitable for constant current operation in SELV and non-SELV applications
- Well-matched operation together with ZITARES ICD ECGs
- Simple electrical connection via plug terminals with push buttons
- Module mounting via screw fastening
- Optimised temperature distribution for simplified thermal management in luminaires

Technical data

Photometrical data	
Color consistency (initial SDCM)	< 3
Color consistency (after 50.000 h)	< 4
Light distribution	120 ° (FWHM) Lambertian light distribution
Tolerances of luminous flux	≤ 10 %
Photo biological safety	class 1
Electrical Data	
Operation	Constant current
Nominal operating current	700 mA
Admissible operating current range	200 ... 900 mA
Max. total current supply per module	1.4 A
Max. admissible string voltage (for multiple connected modules)	300 VDC
Forward voltage	10 %
Assembly informationen	
Methode of fixing	M4 screws
Torque (pre-taped holes)	0.4 ... 0.8 Nm
Type of connector	Push-In connector with release option
Operating temperature	
Max. case temperature ($t_{c,max}$)	+75 °C
Max. performance temperature ($t_{p,max}$)	+65 °C
Life time	
Nominal life time	50,000 h
Lumen maintenance (L-value)	80% (L80)
Failure fraction (B-value)	10% (B10)

Conformity

EN 62031
EN 62471
EN 61547
EN 55015

Designations



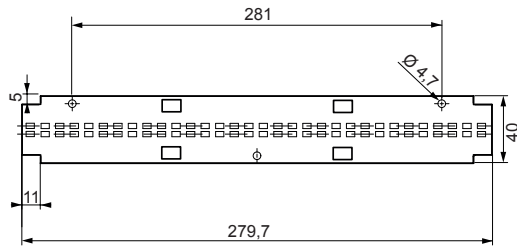
Operating data

Designation	Material number	Typ. luminous flux	Colour temperature of channel	Typ. colour rendering	Rated operation current	Max. operating voltage	Typ. power	Typ. efficiency
		lm	K		mA	V	W	lm/W
LMC-AS/M-110-827/65-LP-01/ L28W4/MW	10124557	1100	2700	83	730	12	8,5	130
			6500	86	650	12	7,9	140
LMC-AS/M-220-827/65-LP-01/ L56W4/MW	10124558	2200	2700	83	730	24	16,9	130
			6500	86	650	24	15,7	140

All operating data are referring to nominal operation of single colour channel at $T_c = 65^\circ\text{C}$

$I_{\text{max/CH}} = 900 \text{ mA}$; $I_{\text{CH1} + \text{CH2}} = \text{max. } 1,400 \text{ mA}$

Dimensions



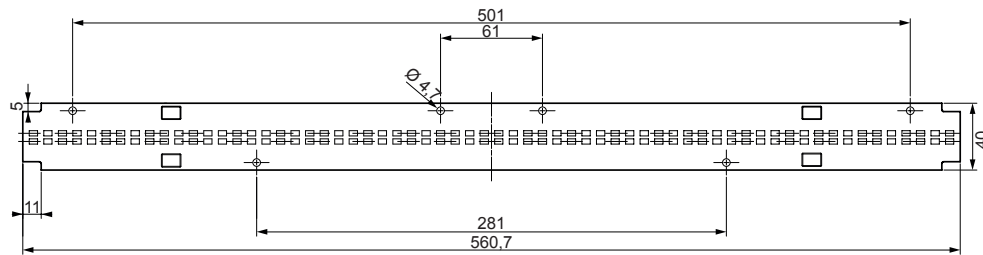
Application notes



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

