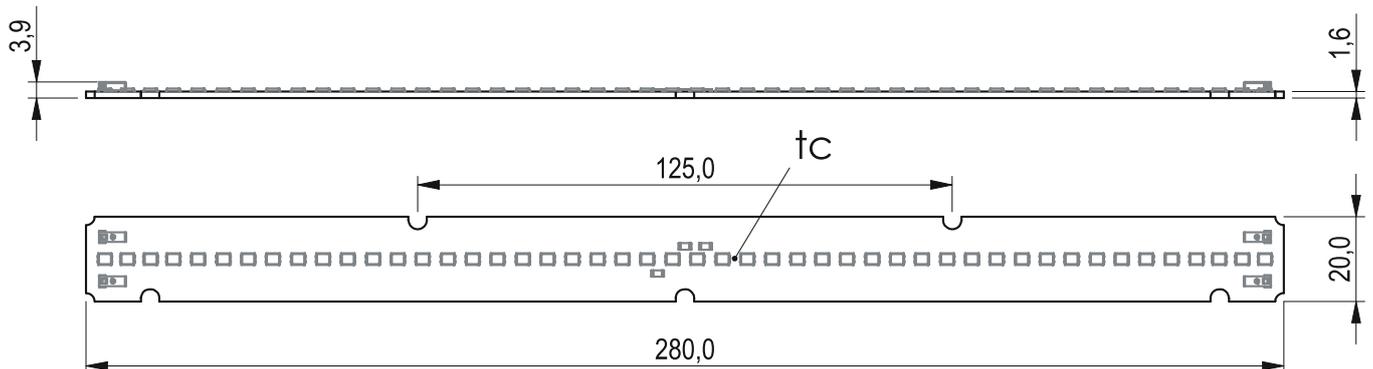


PLIN 280x20mm CRI80/90 2000lm 225/450mA 2C+R U5

Drawing



Technical data

Nominal forward current	225 / 450 mA
Maximum forward current	450 / 900 mA
Ambient temperature range	-25 ... +45 °C
tc	85 °C
tp rated	45 °C
Lumen maintenance L70B50	>102000h
Max. working voltage for insulation	400 V
Insulation test voltage	1800 V
Classification acc. to IEC 62031	Built-in
Risk group (IEC 62471)	RG1
Type of protection	IP00
Beam characteristic	120 °

Product details

- Built-in LED module
- Long life-time
- Ideal for linear luminaires
- Perfectly uniform light
- Aluminium plate
- Dimension according to L28W2
- 5 years guarantee

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Product code	Photometric code	Useful luminous flux at tp=25 °C	Expected luminous flux at tp rated	Forward current	Min. forward voltage at tp=85 °C	Max. forward voltage at tp=25 °C	Power consumption at tp=25 °C	Efficacy at tp=25 °C	Expected efficacy of at tp rated	Energy classification
A2820L48-840-225-2CR-U5	840/359	2080 lm	2015 lm	225 mA	42,5 V	45,1 V	9,9 W	210 lm/W	205 lm/W	B
A2820L48-840-450-2CR-U5	840/359	2080 lm	2015 lm	450 mA	21,3 V	22,6 V	9,9 W	210 lm/W	205 lm/W	B
A2820L48-940-225-2CR-U5	940/359	2070 lm	2010 lm	240 mA	42,7 V	45,2 V	10,6 W	195 lm/W	191 lm/W	C
A2820L48-940-450-2CR-U5	940/359	2070 lm	2010 lm	480 mA	21,3 V	22,6 V	10,6 W	195 lm/W	191 lm/W	C
A2820L48-930-225-2CR-U5	930/359	2010 lm	1950 lm	255 mA	42,8 V	45,3 V	11,3 W	177 lm/W	173 lm/W	C
A2820L48-930-450-2CR-U5	930/359	2010 lm	1950 lm	510 mA	21,4 V	22,7 V	11,3 W	177 lm/W	173 lm/W	C

Temperature multiplier		
Temperature	Expected luminous flux	Efficacy
tp 25 °C	1	1
tp 45 °C	0,96	0,97
tp 65 °C	0,93	0,94
tp 85 °C	0,89	0,91
Nominal current multiplier		
% of base nominal current	Expected luminous flux	Efficacy
40	0,40	1,02
50	0,54	1,02
60	0,61	1,02
70	0,74	1,01
80	0,80	1,01
90	0,93	1,01
100	1,00	1,01
110	1,13	1,00
120	1,19	1,00
130	1,32	0,99
140	1,38	0,99
150	1,51	0,99
160	1,57	0,99

Thermal details

Temperature has a great influence on the lifetime of LED products. Exceeding the permissible temperatures can significantly shorten the life of the module or even lead to its destruction. It is necessary to verify compliance with the maximum allowable temperature at the reference point under stable operating conditions. The maximum value should be determined based on the application-specific worst-case conditions. Both reference point temperatures (tc and tp) are measured at the same location.

Instalation

The module are not protected against overvoltages, overcurrents,overloads or short-circuit currents. Wrong polarity can damage the module. The module must be powered by a SELV or non-SELV constant current LED driver. Module can be mounted diectly on earthed metal parts of luminaire only when max working voltage for insulation is higher than max. output voltage of LED driver (also against earth). Otherwise additional insulation between LED module and heat sink is required. At voltages > 60 V an additional protection against direct touch (test finger) to the light emitting side of the module has to be guaranteed. This is typically achieved by means of a non removable light distributor over the module or by a suitable luminaire construction.



