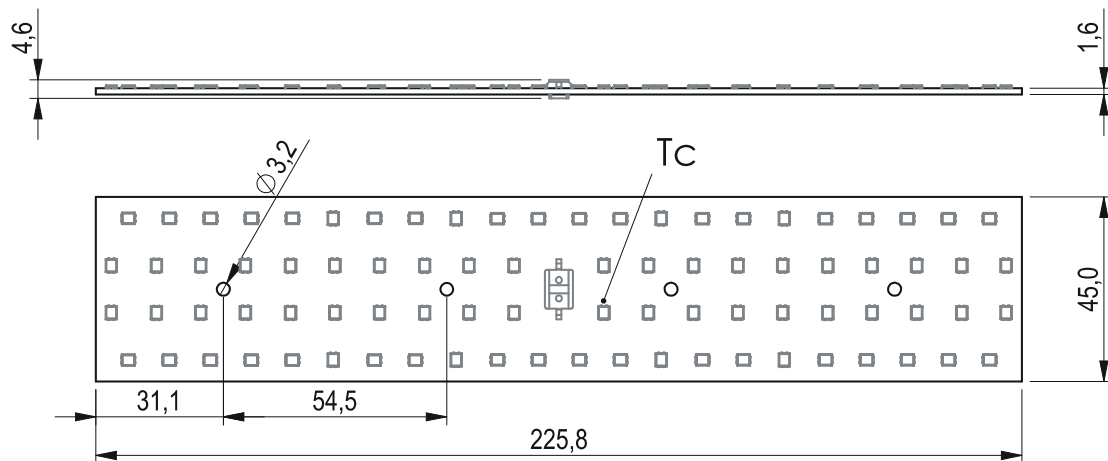


A2345P84 230x45mm CRI80 6000lm 910mA 2C HE

Drawing



Technical data

Nominal forward current	910 mA
Maximum forward current	1400 mA
Ambient temperature range	-25 ... +45 °C
tc	85 °C
tp rated	45 °C
Lumen maintenance L70B50	>72000h
Max. working voltage for insulation	440 V
Insulation test voltage	1880 V
Classification acc. to IEC 62031	Built-in
Risk group (IEC 62471)	RG1
Type of protection	IP00
Beam characteristic	120 °

Product details

- Works with Darkoo optics (DK-252*70-xxx-84H1)
- Built-in LED module
- Long life-time
- Ideal for panel luminaires
- Perfectly uniform light
- 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
A2345P84-840-910-2C-HE	840/359	6175 lm	5990 lm	910 mA	32,9 V	34,8 V	31,1 W	199 lm/W	195 lm/W	B

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		
Nominal current	Expected luminous flux	Efficacy
210 mA	0,24	1,04
280 mA	0,32	1,04
350 mA	0,40	1,04
420 mA	0,48	1,03
490 mA	0,59	1,03
560 mA	0,63	1,02
630 mA	0,71	1,02
700 mA	0,78	1,01
770 mA	0,85	1,01
840 mA	0,93	1,01
910 mA	1,00	1,00
980 mA	1,07	1,00
1050 mA	1,14	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.

Installation

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 directly 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.

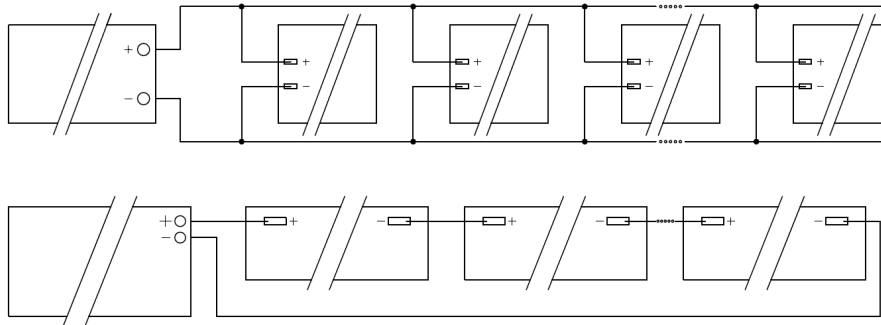


A2345P84 230x45mm CRI80 6000lm 910mA 2C HE

Risk of sulfurization

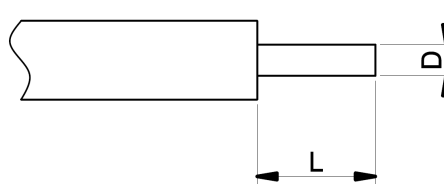
The LED uses a silver-plated lead frame and its surface color may change to black (or dark colored) when it is exposed to sulfur (S), chlorine (Cl) or other halogen compound. Sulfurization of lead frame may cause intensity degradation, change of chromaticity coordinates and, in extreme cases, open circuit. It requires caution. Due to possible sulfurization of lead frame, the LED Modules should not be used and stored together with oxidizing substances made of materials such as rubber, plain paper, lead solder cream, etc.

Wiring example



Wiring type and cross section

The wiring can be in stranded wires or solid with a cross section of 0.2 to 0.75mm².



D - wire cross section	Min	Max
	0,2mm ²	0,75mm ²
L - strip length	Min	Max
	7,5mm	9,5mm

Photometric code

1 digit	2+3 digit	4 digit	5 digit	6 digit
CRI	Colour temperature in Kelvin x 100	MacAdam initial	Mac Adam after 25 % of the lifetime (max. 6000 h)	Luminous flux after 25% of the lifetime (max. 6000 h)
7 70-79				7 ≥ 70
8 80-89				8 ≥ 80
9 ≥90				9 ≥ 90