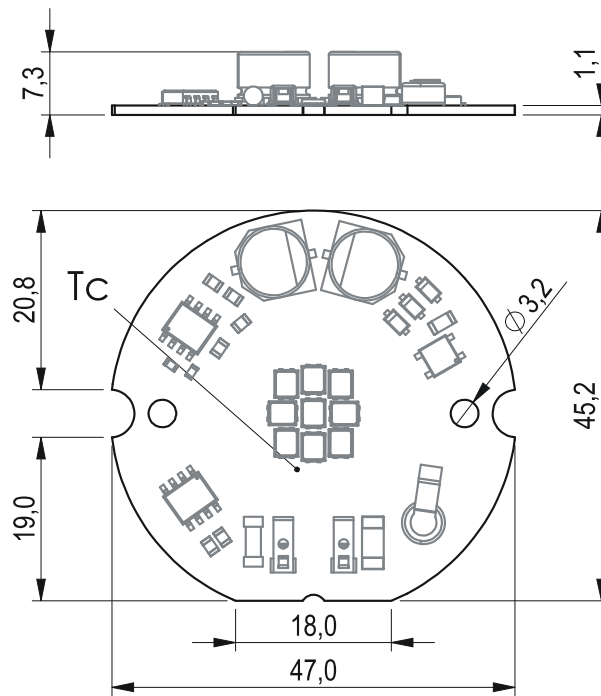


# Spot AC LES9 CRI 80/90 800lm 5W 2C

## Drawing



### Technical data

Nominal voltage	230 VAC
Power factor	>0,95
Ambient temperature range	-25 ... +45 °C
tc	85 °C
tp rated	45 °C
Lumen maintenance L70B50	>50 000 h
Insulation	Basic
Insulation test voltage	1500 V
Classification acc. to IEC 62031	Built-in
Risk group (IEC 62471)	RG1
Type of protection	IP00
Beam characteristic	120 °
Surge protection L-N	1 kV
SVM	<0.4
P <sub>st</sub> LM	<1

### Product details

- Driver on board
- Zero flicker
- Compact slim design
- Non dimmable
- High reliability
- High Power Factor
- Low inrush current
- 5 year guarantee

# Spot AC LES9 CRI 80/90 800lm 5W 2C

Product code	Photometric code	Useful luminous flux at tp=25 °C	Expected luminous flux at tp rated	Power consumption at tp=25 °C	Efficacy at tp=25 °C	Expected efficacy at tp rated	Energy classification
J47R9-930-8-2C	930/359	1000 lm	980 lm	8,4 W	117 lm/W	115 lm/W	E
J47R9-930-7-2C	930/359	800 lm	790 lm	6,7 W	119 lm/W	118 lm/W	E
J47R9-930-5-2C	930/359	600 lm	590 lm	5,1 W	122 lm/W	120 lm/W	E
J47R9-930-3-2C	930/359	400 lm	390 lm	3,4 W	125 lm/W	123 lm/W	E

Product code	Photometric code	Useful luminous flux at tp=25 °C	Expected luminous flux at tp rated	Power consumption at tp=25 °C	Efficacy at tp=25 °C	Expected efficacy at tp rated	Energy classification
J47R9-830-7-2C	830/359	1000 lm	980 lm	7,4 W	136 lm/W	133 lm/W	D
J47R9-830-5-2C	830/359	800 lm	790 lm	5,9 W	138 lm/W	136 lm/W	D
J47R9-830-4-2C	830/359	600 lm	590 lm	4,4 W	141 lm/W	139 lm/W	D
J47R9-830-3-2C	830/359	400 lm	390 lm	2,9 W	144 lm/W	142 lm/W	D

Product code	Photometric code	Useful luminous flux at tp=25 °C	Expected luminous flux at tp rated	Power consumption at tp=25 °C	Efficacy at tp=25 °C	Expected efficacy at tp rated	Energy classification
J47R9-840-7-2C	840/359	1000 lm	980 lm	6,8 W	147 lm/W	144 lm/W	D
J47R9-840-5-2C	840/359	800 lm	790 lm	5,4 W	149 lm/W	147 lm/W	D
J47R9-840-4-2C	840/359	600 lm	590 lm	4,1 W	153 lm/W	150 lm/W	D
J47R9-840-3-2C	840/359	400 lm	390 lm	2,7 W	156 lm/W	153 lm/W	D

## 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 LED modules are designed for direct mains operation (230 V AC). Installation must be carried out under observation country specific relevant safety regulations and standards. The module is suitable for luminaires of protection class I, grounding is mandatory to comply with safety standards. In case of applications in luminaires of protection class II the safety regulations acc. to luminaire safety standards must be observed. 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.

## Risk of sulfurization

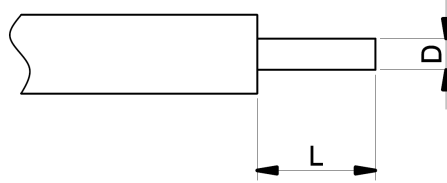
The LED uses a silver-plated lead frame and its surface color may change to black (or dark colored) when it is exposed to sulfur (S), chlorine (Cl) or other halogen compound. Sulfurization of lead frame may cause intensity degradation, change of chromaticity coordinates and, in extreme cases, open circuit. 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.



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## Wiring type and cross section

The wiring can be in stranded wires or solid with a cross section of 0.2 to 0.75mm<sup>2</sup>.



D - wire cross section	Min	Max
	0,2mm <sup>2</sup>	0,5mm <sup>2</sup>
L - strip length	Min	Max
	4 mm	5 mm

## 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