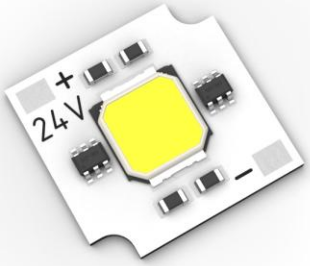
DATASHEET

SmartArray, Q1, 24V, 5000K, CRI80



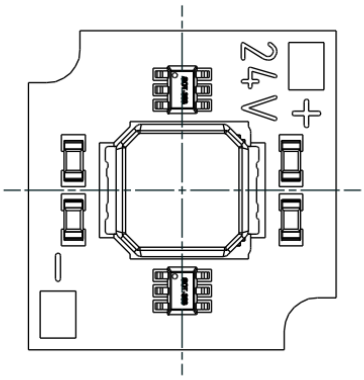
LUMITRONIX®
High-Performance LED-Technologies & Solutions

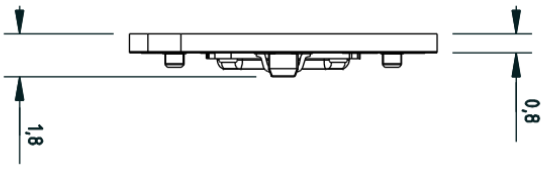
TECHNICAL DATA

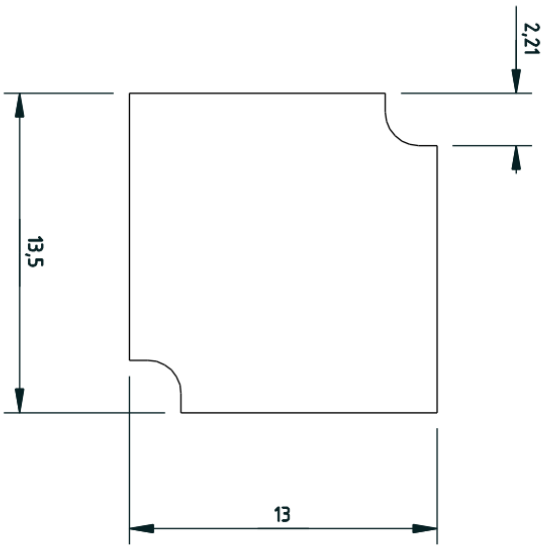
LUMITRONIX Article	43998
Customer Article No.	-
Article Description	SmartArray, Q1, 24V, 5000K, CRI80
Photometric Characteristics (@ Tj = 25°C, ± 10%)	
Light Colour	warmwhite
Binning	3-Step-MacAdam
Colour Temperature [K]	5000
Dominant Wavelength [nm]	-
Luminous Flux [lm]	640
Radiation Power [mW]	-
CRI [Ra]	>80
Efficacy [lm/W]	133
Beam Angle FWHP	120°
Lifetime L80B50C1 [h]	>60000
Photometric Code	850 /339
Electrical Characteristics (@ Tj = 25°C, ± 10%)	
Operation Mode	Constant Voltage
Voltage [V]	24
Current [mA]	200
Power [W]	4,8
Power consumption on standby [W]	0
Dimmability	PWM
Dimensions / Mechanical Characteristics (ISO 2768-m)	
Length [mm]	13
Width [mm]	13,5
Height [mm]	1,8
Weight [g]	-
LED Number	1
Heat Dissipation	-
Temperatures[1]	
Operating Temperature at T_C	-40°C to +85°C
Ambient Temperature	-40°C to +50°C
Storage Temperature	-40°C to +100°C
Certification	
CE / RoHS / Reach	yes
EN 62471 Risk Group	RG2
Energy Efficiency Class	D
Total mains efficacy η_M [lm/W]	145,2
Version	
Date	04. August 2025

[1]: Unless otherwise noted, all declared temperature limits—storage, ambient and operating—are based solely on the module's internal specifications and do not extend to any bonding agents or adhesives used

DRAWING







SAFETY INSTRUCTIONS

The LED-Modules and all its components must not be mechanically stressed.
Avoid excessive stress e.g. by screws or strong bending.
The LED-Modules must not come into contact with aggressive, chemical substances, both during operation and in storage.
When installing the module (including power supply) all relevant electrical and safety standards have to be taken into account.
Make sure to apply ESD precautions when handling the modules.
• The components on the modules must not be mechanical stressed.
• The copper traces on the modules must not be damaged or disrupted at any time.
• Store and operate the modules only at an air humidity of 10% to 60%.

Our modules do not contain any protection against overload, over temperature or short circuits unless otherwise noted. For safe and reliable operation of the modules an electronical stabilized power supply with built in protection has to be used. When using a power supply that's not sold by us make sure that the following precautions are ensured by the power supply:

MINIMUM REQUIREMENTS FOR POWER SUPPLIES

Short circuit protection • overload protection • over temperature protection

• The installation of LED-Modules (including power supply) has to be done by a certified electrician following all electrical and safety standards.

IF YOU HAVE ANY QUESTIONS WE WOULD BE PLEASED TO HELP

LUMITRONIX® is your partner in light emitting diodes, LED products and light measurement.

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