



Lumistrips

DATASHEET

POLLUX 7X2 NICHIA E11 CSP LED MODULE NEUTRAL WHITE 4000K CRI80 400LM
130MA 2.5W 27.4CM

SKU: 42371

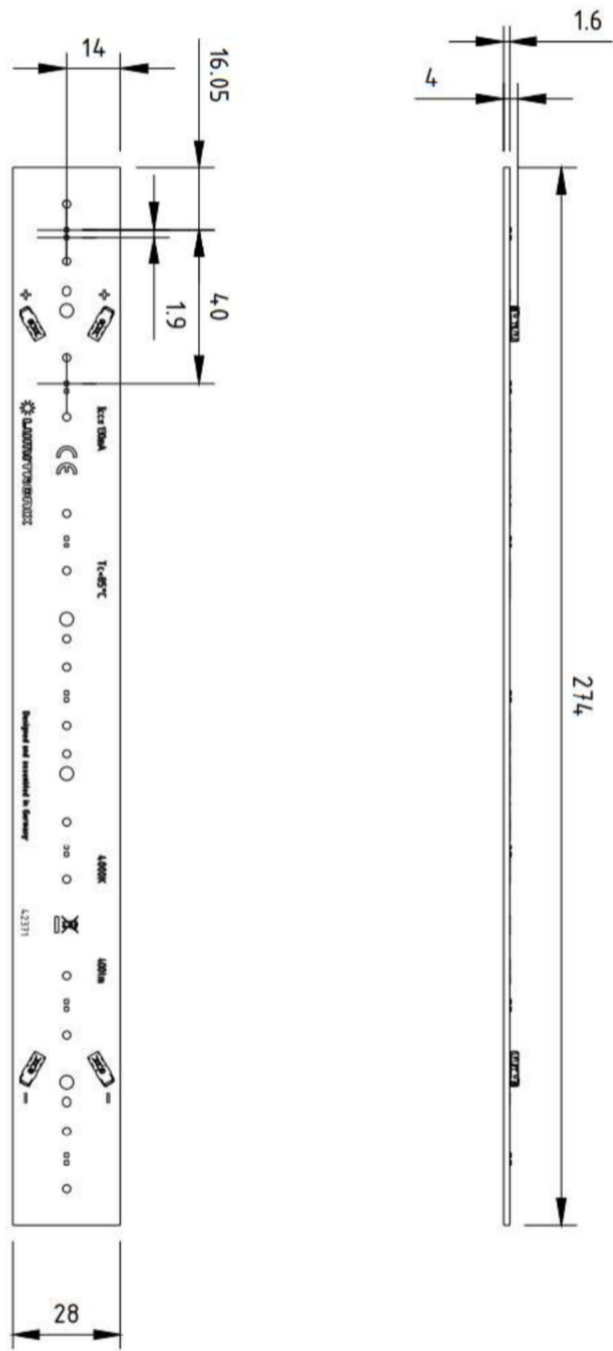


POLLUX 7X2 NICHIA E11 CSP LED MODULE NEUTRAL WHITE 4000K CRI80 400LM 130MA 2.5W 27.4CM

Article number (SKU)		42371	
Product name	Pollux 7x2 Nichia E11 CSP LED Module Neutral White 4000K CRI80 400lm 130mA 2.5W 27.4cm		
Classification	Professional		
Model identifier (equivalent models)	Pollux		
Photometric data (at TJ = 65°C, ± 10%)			
Light color	Neutral white		
Binning	3-Step MacAdam		
Color temperature (K)	4000 K		
Dominant wavelength (nm)	-		
Luminous flux (lm)	400 lm		
Radiant power (mW)	-		
CRI (Ra)	>80		
Luminous efficacy (lm/W)	162 lm/W		
Beam angle FWHM	120°		
Lifetime L80B10C1 (h)	>60,000 h		
Photometric code	840/339		
Electrical data (at TJ = 65°C, ± 10%) (reference settings)			
Operating mode	Constant current		
Voltage (V)	19 V		
Current (mA)	130 mA		
Power (W)	2.5 W		
Standby power (W)	0 W		
Dimmable	-		
Dimensions / Mechanical data		Metric units	Imperial units
Length		274 mm	10.787 in
Width		28 mm	1.102 in
Height		4 mm	0.157 in
Number of LEDs (pcs)	14 pcs		
Weight (g)	-		
Heat dissipation	-		
Temperatures			
Operating temperature at Tc	-40 °C to +85 °C		
Ambient temperature	-40 °C to +50 °C		
Storage temperature	-40 °C to +100 °C		
Approvals / Certifications			
CE / RoHS / Reach	Yes		
EN 62471 Risk group	RG0		
Energy efficiency class	C		
Mains voltage luminous efficacy (lm/W)	174.24 lm/W		
Version			
Technical data date	5 February 2026		



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MANUFACTURING



This product carries a five-year commercial warranty. Refer to <https://www.lumistrips.com/lumistrips-en-warranty> for warranty terms.

We develop and manufacture LED modules and strips in Hechingen, Germany, drawing on more than 20 years of experience in LED technology.

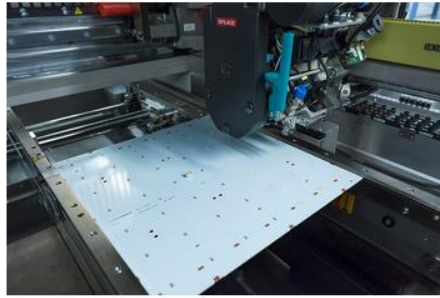


Our capabilities cover rigid modules, flexible LED strips and custom assemblies, with support from development and prototyping through to series production.

CUSTOM DEVELOPMENT AND SUPPORT

- Custom options can include PCB dimensions, LED selection, optics and control electronics, subject to technical feasibility.
- Development support covers PCB layout, thermal design and system integration.
- Prototypes can be assembled and evaluated in our in-house lighting laboratory.
- Supply your optical targets, dimensions, supply and control requirements, operating environment and expected quantity when requesting a custom design.
- Technical enquiries: contactus@lumistrips.com | www.lumistrips.eu

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Our manufacturing capabilities include surface-mount technology (SMT) assembly for rigid PCBs and reel-to-reel production for flexible LED substrates. The process is selected to suit the product design and production volume.

Production quality controls include:

- Laser marking for PCB identification and traceability
- Solder paste inspection before component placement
- Automated component placement
- Controlled reflow soldering
- Three-dimensional automated optical inspection

Manufacturing management systems: ISO 9001 for quality, ISO 14001 for environmental management and ISO 45001 for occupational health and safety. These certifications apply to the manufacturing centre; product approvals are listed separately in the technical data.

LED SELECTION AND PERFORMANCE

LED components are selected for each product's optical, electrical and thermal requirements. The specified LED type and SKU identify the configuration covered by this datasheet.

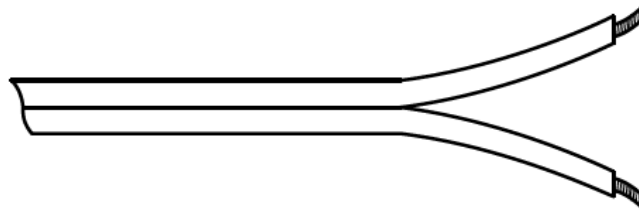
- Optical data: luminous flux, correlated colour temperature (CCT), colour rendering index (CRI) and colour consistency, where specified.
- Electrical data: supply type, operating current, voltage and power at the stated reference conditions.
- Thermal data: the case-temperature and ambient-temperature limits apply to the installed product.
- Performance values apply under the stated test conditions. Installed output and lifetime depend on the operating current, temperature and luminaire design.

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ELECTRICAL CONNECTION



Connect the Pollux module using the marked positive (+) and negative (-) terminals/connectors and observe the PCB polarity markings. Use connector-compatible conductors and ensure that all connections are fully inserted and mechanically secure. Use wiring and connectors suitable for the module current and installation conditions. Verify polarity, conductor retention and electrical isolation before applying power.



DRIVER SELECTION

This Pollux operates from a constant-current (CC) driver. Its reference operating point is 130 mA at a module voltage of 19 V and a power of 2.5 W. Select a driver whose regulated output range accommodates the load over the operating conditions. Do not connect the module directly to a constant-voltage supply.

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PARALLEL CONNECTION

Where parallel operation is permitted, connect all positive (+) terminals to the positive supply and all negative (–) terminals to the negative supply.

Each branch operates at the same supply voltage; total supply current is the sum of the branch currents.

For CC modules, use parallel wiring only in a validated configuration with suitable current sharing or individual branch regulation. Do not assume that a single CC driver divides its output current equally between modules.

SERIES CONNECTION

For compatible CC modules, connect driver (+) to module 1 (+), module 1 (–) to module 2 (+), and continue in the same sequence. Connect the final module (–) to driver (–).

All modules carry the same current. Set the driver current to the specified module operating current. The driver output-voltage range must accommodate the sum of the module forward voltages over the operating conditions. Do not apply this arrangement to CV strips unless explicitly specified.

PRODUCT IDENTIFICATION

The product name identifies the Pollux configuration, LED manufacturer and type, optical specification, reference electrical rating and module length. The SKU identifies the exact configuration covered by this datasheet.

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HANDLING AND INSTALLATION

Electrical isolation

Disconnect the supply before installation or wiring. Installation must be performed by an authorized electrician in accordance with applicable electrical and safety requirements.

Mechanical handling and ESD

Use electrostatic discharge (ESD) precautions. Handle the PCB by its edges; do not press on LEDs or other components. Avoid excessive bending, clamping forces and overtightened fixings. Do not damage conductive tracks.

Mounting and temperature

Support the PCB at the intended mounting points. Provide the heat dissipation required by the product and verify that case and ambient temperatures remain within the specified limits in the completed installation.

Storage and environment

Avoid contact with aggressive chemicals, condensation and contamination during storage and operation. Observe the storage, ambient and case-temperature limits specified in the technical data and apply suitable environmental protection in the finished luminaire.

Power supply protection

This module has no integrated overload, overtemperature or short-circuit protection. Use an electronically regulated supply with these protective functions, including when selecting a third-party supply. Verify that the complete system remains within the module's electrical and thermal limits.

Checks before operation

Check polarity, conductor retention, driver settings and mounting before applying power. Confirm that the driver and any dimming controls are compatible with the selected product.

DOCUMENT INFORMATION

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ORDERING AND PRODUCT INFORMATION

www.ledrise.eu / www.lumistrips.com