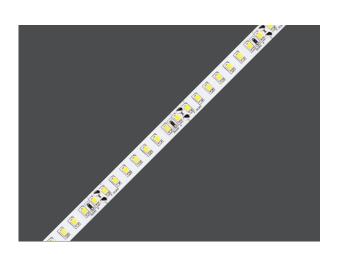
liniLED[®] PCB R High Power 800 CRI90

liniLED[®]



With a stellar efficiency of up to 150 lumens per watt, the liniLED[®] PCB R High Power 800, ensures brilliant illumination while conserving energy, offering a perfect balance for sustainable lighting projects.

Boasting an impressive Colour Rendering Index (CRI) of 90, this LED strip delivers trueto-life colours, creating an immersive and visually appealing environment. The L90/ B10 rating guarantees longevity, with over 47,000 hours of consistent performance even at a challenging temperature of 55°C, maintaining 89.95% of its luminosity.

For the latest version of this datasheet, visit our website: https://www.triolight.com/ en/led-products/led-strips

USPs

High Efficiency (up to 150 lum/W) CRI 90 L90/B10>47000hrs @ 55°C: lumen maintenance 89.95% 5 year warranty

Available colours

Colour

Extra Warm White 2700K

- Warm White 3000K
- Natural White 4000K
- Cold White 6500K

Description

liniLED® PCB R High Power 800 2700K CRI90 liniLED® PCB R High Power 800 3000K CRI90 liniLED® PCB R High Power 800 4000K CRI90 liniLED® PCB R High Power 800 6500K CRI90

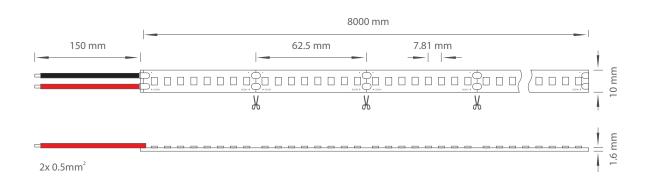


Technical specifications

	2700K	3000K	4000K	6500K
Product code	RP08-927	RP08-930	RP08-940	RP08-965
Power (24V DC)	5.76 W/m	5.76 W/m	5.76 W/m	5.76 W/m
ССТ	2700K	3000K	4000K	6500K
CRI	90	90	90	90
Luminous flux	806 lm/m	818 lm/m	864 lm/m	858 lm/m
Luminous efficiency	140 lm/W	142 lm/W	150 lm/W	149 lm/W
Spool length	8 m			
Section length	62.5 mm			
LED type	2835			
Number of LEDs	128 pcs			
Max. connection length	8 m			
Min. operating voltage	23V DC			
Max. operating voltage	25V DC			
Width	10 mm			
Height	1.6 mm			
Dimmable	PWM, 0-10V, DALI and DMX dimming			
MacAdam Steps	3 Steps			
Type of protection	IPOO			
Storage temperature	-20°C +60°C			
Operating temperature	-20°C +70°C			

Typical measured values are given, which due to tolerances in components and production process can vary up to 10%.

Product drawings



To power the liniLED[®] LED strips and lighting fixtures, a power supply from the liniLED[®] Power assortment can be selected. Selection of the correct power supplymust be done by taking the total requested power and the environment into account.

The total power consumption can be calculated by summing the requested power of all connected products. To calculate the power consumption of a single length of LED strip, use the equation below. The typical equation is valid if the product is supplied by a 24 V DC constant voltage power supply. If the output voltage of a power supply is increased, the power consumption will increase with the same ratio and needs to be corrected by using the optional part of the equation found between brackets.

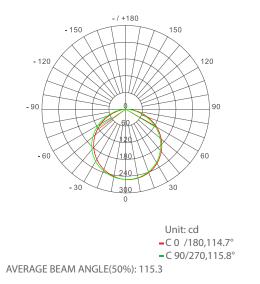
$$P_{\text{STRIP}} = P_{\text{product}} \times X_{\text{length}} \times 110\% \left[\times \frac{U_{\text{supply}}}{24} \right]$$

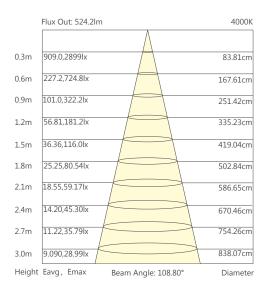
P _{STRIP}	Calculated power consumption of one LED strip in Watt
P _{PRODUCT}	Typical power consumption in Watt per metre of the selected LED strip
	This value can be found under 'Product characteristics' on page 2
X LENGTH	Length of the connected LED strip in metres
110%	Safety margin to buffer differences over all production batches
	Optional:
U _{SUPPLY}	Set supply voltage of the power supply in Volt
24	Nominal supply voltage of liniLED [®] in Volt

Photometric information

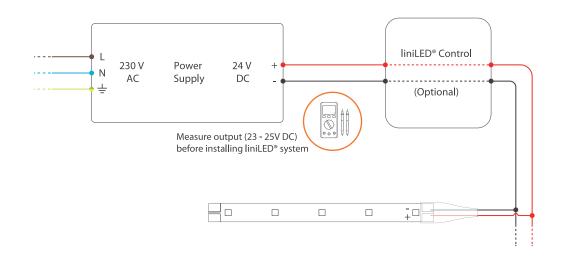
In the process of lighting design and calculations, the luminous flux and beam angle alone are not enough information to create a representative and realistic calculation or render. There is a set of photometric files for each LED strip type, available in two different file formats:

- Eulumdat (.ldt)
- IES LM-63-1995 (.ies)





Note: the above data is based on RP08-940 at 4000K. For other data, please consult sales rep.



Disclaimer

The published information is checked to be as accurate as possible, however Triolight B.V. or any reseller of liniLED® cannot be held liable for any damages resulting from misprints, errors, modifications or outdated information. No legal rights can be derived from this document. Triolight B.V. reserves the right to modify the information without informing the customers. Please check for the latest version on www.triolight.com. This product should not be used in applications, devices or systems where incorrect operation of the product may result in personal injury (includes emergency lighting) without written permission from the board of Triolight B.V. If nevertheless used in such applications, devices or systems, Triolight B.V. cannot be held liable for any resulting injury. liniLED® is a registered trademark of Triolight B.V.

Symbols

Manufacturer's declaration that the product meets the applicable EC directives. **24** V DC Operating voltage of 24 V DC. Electro Static Discharge (ESD) sensitive device, apply standard ESD precautions when handling the product. Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE). RoHS Not protected against ingress of solid foreign objects. Not-protected against ingress of water. IP00 White colour consistency up to 2 SDCM ellipse over an entire single strip length. LEDs used are single BIN 3 SDCM ellipse, but their careful MAC 3 combination in a LED strip during the production process, results in a mixed light through a diusive material which is within a 2 SDCM ellipse (probability >90%). Due to variability this is not legally binding. The guaranteed colour consistency can be found in the technical specications. CRI The CRI value of this product is 90 or higher. 90+ System guarantee of 5 years when the complete system consist of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.