

Choose liniLED® PCB R High Power 1200 for a transformative lighting experience. With an impressive lumen output of 1200 lm/m, this product offers a radiant and powerful illumination, meeting the demands of diverse applications.

Achieve optimal energy efficiency with a remarkable efficacy of up to 150 lumens per watt, ensuring not only brilliant lighting but also sustainable performance. The Colour Rendering Index (CRI) of 90 guarantees true colour representation, enhancing the visual appeal of any space. The product's outstanding L90/B10 rating signifies a remarkable lifespan, surpassing 47,000 hours at a challenging temperature of 55°C, while maintaining an impressive 89.95% lumen maintenance.

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	Description
 Extra Warm White 2700K	liniLED® PCB R High Power 1200 2700K CRI90
 Warm White 3000K	liniLED® PCB R High Power 1200 3000K CRI90
 Natural White 4000K	liniLED® PCB R High Power 1200 4000K CRI90
 Cold White 6500K	liniLED® PCB R High Power 1200 6500K CRI90

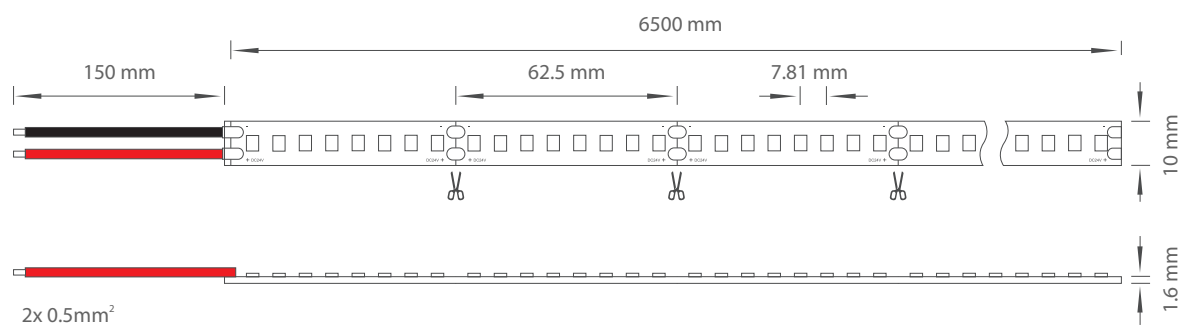


Technical specifications

	2700K	3000K	4000K	6500K
Product code	RP12-927	RP12-930	RP12-940	RP12-965
Power (24V DC)	8.64 W/m	8.64 W/m	8.64 W/m	8.64 W/m
CCT	2700K	3000K	4000K	6500K
CRI	90	90	90	90
Luminous flux	1210 lm/m	1227 lm/m	1296 lm/m	1287 lm/m
Luminous efficiency	140 lm/W	142 lm/W	150 lm/W	149 lm/W
Spool length	6.5 m			
Section length	62.5 mm			
LED type	2835			
Number of LEDs	128 pcs			
Max. connection length	6.5 m			
Min. operating voltage	23V DC			
Max. operating voltage	25V DC			
Width	8 mm			
Height	1.6 mm			
Dimmable	PWM, 0-10V, DALI and DMX dimming			
MacAdam Steps	3 Steps			
Type of protection	IP00			
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



Power consumption

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 supply must 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.

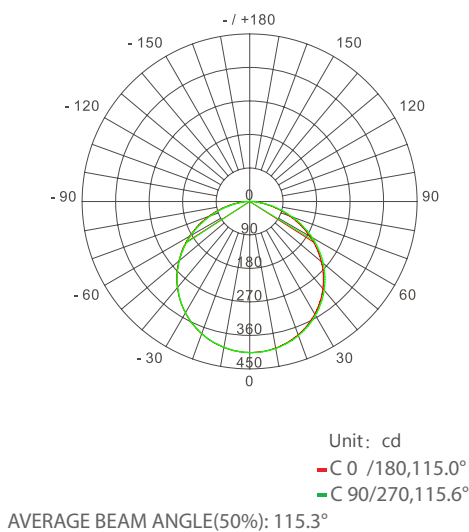
$$P_{STRIP} = P_{PRODUCT} \times X_{LENGTH} \times 110\% \left[\times \frac{U_{SUPPLY}}{24} \right]$$

- 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)

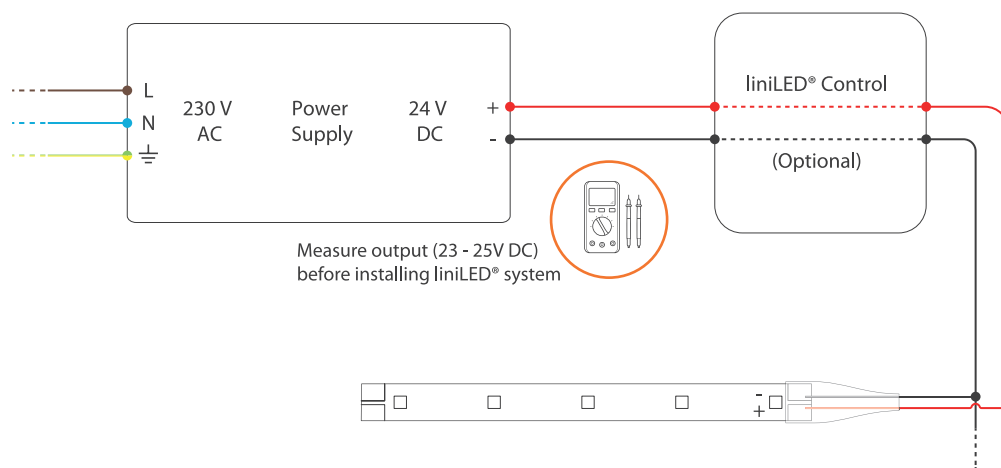


Height	Eavg, Emax	Beam Angle: 108.35°	Diameter
0.3m	1466,4677lx		83.12cm
0.6m	366.5,1169lx		166.23cm
0.9m	162.9,519.6lx		249.35cm
1.2m	91.62,292.3lx		332.46cm
1.5m	58.64,187.1lx		415.58cm
1.8m	40.72,129.9lx		498.69cm
2.1m	29.92,95.44lx		581.81cm
2.4m	22.91,73.07lx		664.92cm
2.7m	18.10,57.74lx		748.04cm
3.0m	14.66,46.77lx		831.16cm

Flux Out: 845.4lm 4000K

Note: the above data is based on RP12-940 at 4000K. For other data, please consult sales rep.

Power and connection diagram



Disclaimer

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Symbols



Manufacturer's declaration that the product meets the applicable EC directives.



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).



Not protected against ingress of solid foreign objects. Not-protected against ingress of water.



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 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 specifications.



The CRI value of this product is 90 or higher.



System guarantee of 5 years when the complete system consist of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.