



The liniLED® PCB R High Power Colour is not just a lighting solution; it's a testament to versatility and reliability. Elevate your projects with dynamic and vibrant illumination, offering the option of Red, Green, or Blue colours to suit various design applications.

With an impressive Colour Rendering Index (CRI) of 90, this product ensures accurate colour representation, bringing out the true brilliance of illuminated elements. The outstanding L90/B10 rating guarantees a remarkable lifespan, exceeding 47,000 hours even in demanding conditions at 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

Flexible and cuttable every 50 mm cutting section 5 year warranty

Available colours

Colour	Description	
Red	PCB R High Power Red 240	
Green	PCB R High Power Green 540	
Blue	liniLED® PCB R High Power Blue 110	













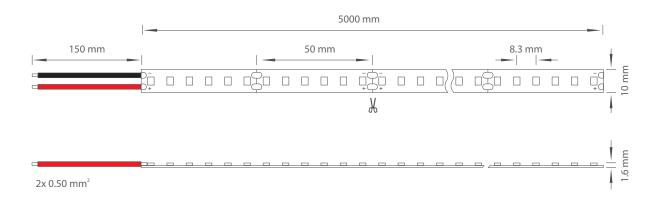


Technical specifications

	Red	Green	Blue			
Product code	RP024-R	RP054-G	RP011-B			
Power (24V DC)	6.72 W/m	5.00 W/m	5.00 W/m			
CCT	/	/	/			
CRI	/	/	/			
Luminous flux	243 lm/m	549 lm/m	120 lm/m			
Luminous efficiency	36.2 lm/W	109.8 lm/W	24 lm/W			
Spool length	5 m					
Section length	50 mm					
LED type	2835					
Number of LEDs	120 pcs					
Max. connection length	5 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	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 consuption

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.

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

 ${\it P}_{_{\it STRIP}}$ Calculated power consumption of one LED strip in Watt

 ${\it P}_{{\it PRODUCT}}$ Typical power consumption in Watt per metre of the selected LED strip

This value can be found under 'Product characteristics' on page 2

 $\mathbf{X}_{\scriptscriptstyle \mathit{IENGTH}}$ Length of the connected LED strip in metres

Safety margin to buffer differences over all production batches

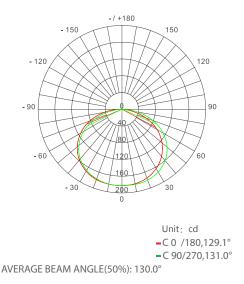
Optional:

U_{SUPPLY} Set supply voltage of the power supply in Volt24 Nominal supply voltage of liniLED® in Volt

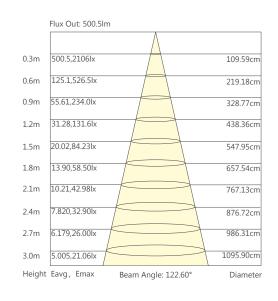
Photometric information

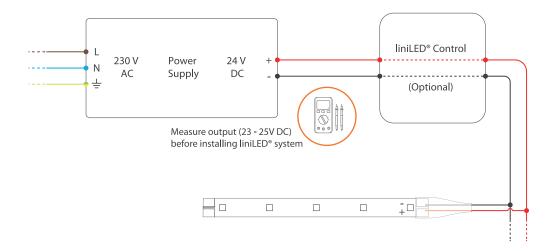
In the process of lighting design and calculations, the luminous flux and beam angle alone are not enough information to create a representative and realistic calculation or render. There is a set of photometric files for each LED strip type, available in two different file formats:

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



Note: the above data is based on RP054-G. 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.



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 specications.



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

triclicati