

The liniLED® PCB R RGBW 1200 offers a brilliant lumen output of 1200 lm/m, delivering a perfect blend of vibrant colours and pure white light to transform any space into a dynamic and captivating environment.

The flexibility of the RGBW LED strip allows for precise customization, with the capability to cut it every 62.5mm. Whether you're illuminating architectural features or creating dynamic lighting effects, this product provides the versatility you need.

Experience a prolonged lifespan and sustained brilliance with exceptional lumen maintenance, ensuring a consistent and captivating lighting ambiance throughout its usage. With our unwavering commitment to quality, the liniLED® PCB R RGBW 1200 is backed by a solid 5-year warranty, offering peace of mind and confidence in your lighting projects.

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

USPs

- Flexible and cuttable every 62.5mm
- Long lifespan with great lumen maintenance
- 5 year warranty

Available colours

Colour	Description
 RGB+W 3000K	liniLED® PCB R RGBW 1200 3000K CRI90



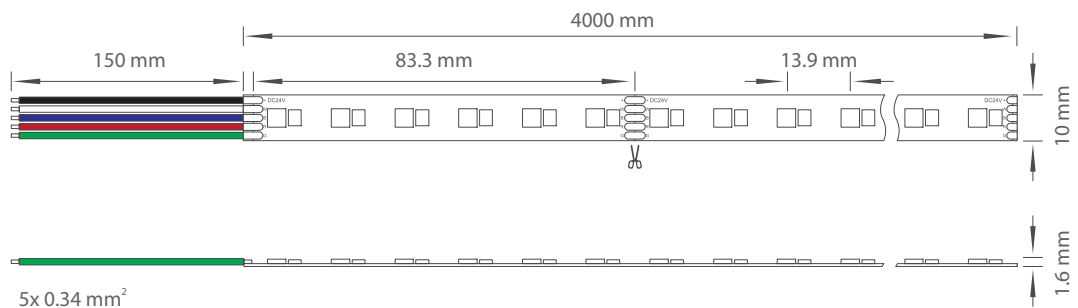
Technical specifications

RGB + 3000K

Product code	RP12-930-RGBW
Power (24V DC)	17.28 W/m
CCT	RGB + 3000K
CRI	90
Luminous flux	1220 lm/m
Luminous efficiency	70.6 lm/W
Spool length	4 m
Section length	83.3 mm
LED type	4040+2835
Number of LEDs	144 pcs
Max. connection length	4 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	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

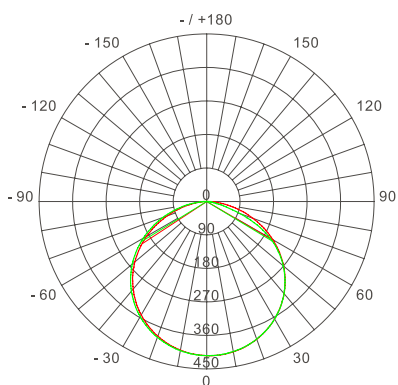
Optional:

- 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)

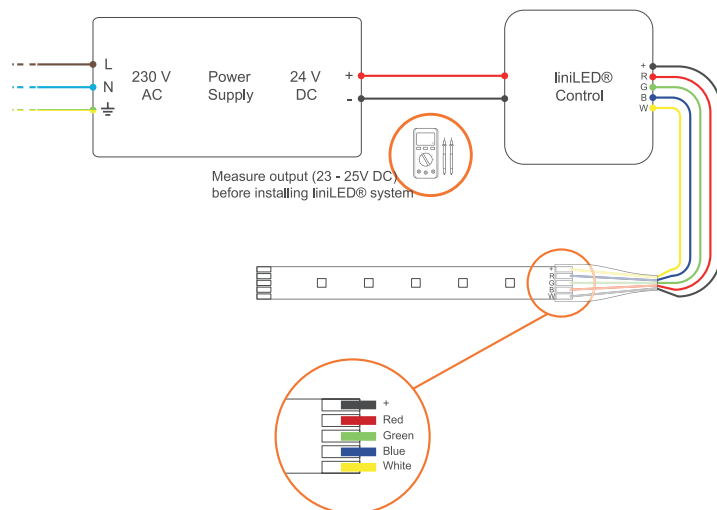


Unit: cd
 - C 0 /180,116.6°
 - C 90/270,117.3°
 AVERAGE BEAM ANGLE(50%): 116.9°

	Flux Out: 876.3lm	RGBW
0.3m	1520,4788lx	84.43cm
0.6m	379,9,1197lx	168.86cm
0.9m	168,8,532.0lx	253.28cm
1.2m	94,97,299.2lx	337.71cm
1.5m	60,78,191.5lx	422.14cm
1.8m	42,21,133.0lx	506.57cm
2.1m	31,01,97.71lx	591.00cm
2.4m	23,74,74.81lx	675.42cm
2.7m	18,76,59.11lx	759.85cm
3.0m	15,20,47.88lx	844.28cm
Height	Eavg, Emax	Beam Angle: 109.20° Diameter

Note: the above data is based on RP12-930-RGBW at RGBW. For other data, please consult sales rep.


Power and connection diagram





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 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.