liniLED® Top R RGBW 1000 CRI90

Immerse spaces in a world of dynamic lighting possibilities with the liniLED® Top R RGBW 1200 LED strip, boasting a lumen output of 1200 lm/m for brilliant and versatile illumination.

Seamless installation is made easy with the IP67 flexible silicon extrusion, ensuring adaptability and reliability in various environments. Achieve outstanding efficiency with an impressive output of up to 130 lumens per watt, providing not only vibrant colours but also energy-conscious and sustainable lighting solutions.

Beneft from the strip's great lumen maintenance function, ensuring a long service life for the liniLED® Top R RGBW 1200. The high Color Rendering Index (CRI) of 90 guarantees accurate colour representation, enhancing the visual appeal of illuminated spaces.

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

USPs

IP67 flexible silicon extrusion for easy mounting
Easy mounting due to self-adhesive tape at the back
Flexible and cuttable every 62.5mm
Long lifespan with great lumen maintenance
5 year warranty

Available colours

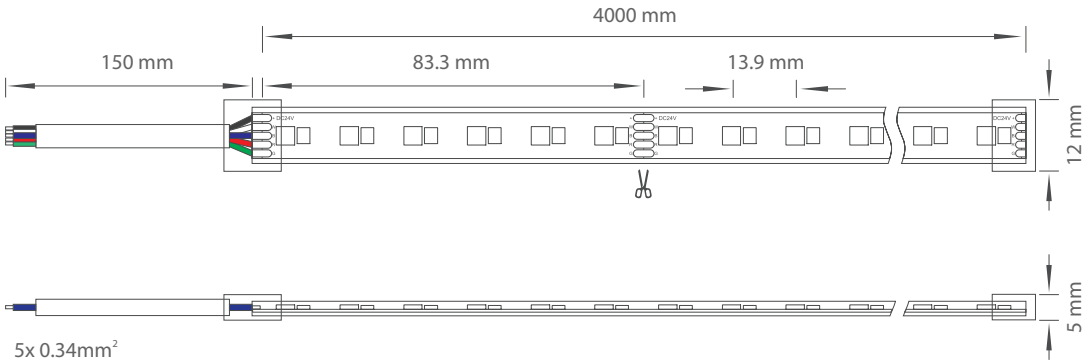
Colour	Description
RGB+W 3000K	liniLED® Top R RGBW 1200 3000K CRI90

Technical specifications

	RGB + 3000K
Product code	RT12-930-RGBW
Power (24V DC)	17.28 W/m
CCT	RGB + 3000K
CRI	90
Luminous flux	1147 lm/m
Luminous efficiency	66.4 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	12 mm
Height	5 mm
Dimmable	PWM, 0-10V, DALI and DMX dimming
MacAdam Steps	3 Steps
Type of protection	IP67
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.

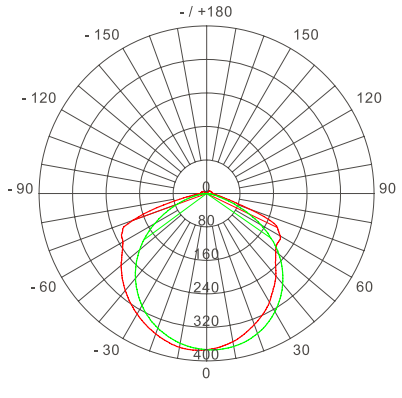
The total power consumption can be calculated by summing the requested power of all connected products. To calculate the power consumption of a single length of LED strip, use the equation below. The typical equation is valid if the product is supplied by a 24 V DC constant voltage power supply. If the 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.

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

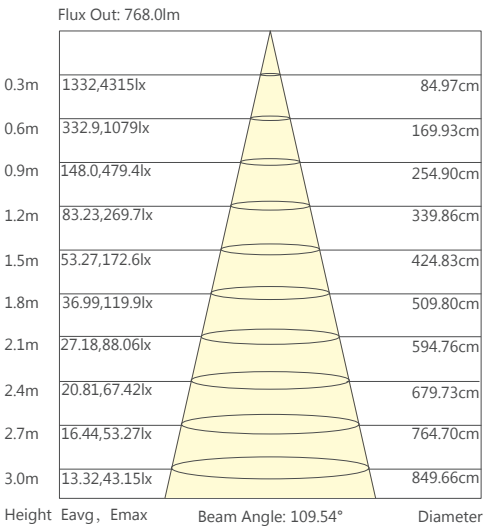
P_{STRIP}	Calculated power consumption of one LED strip in Watt
$P_{PRODUCT}$	Typical power consumption in Watt per metre of the selected LED strip This value can be found under 'Product characteristics' on page 2
X_{LENGTH}	Length of the connected LED strip in metres
110%	Safety margin to buffer differences 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)

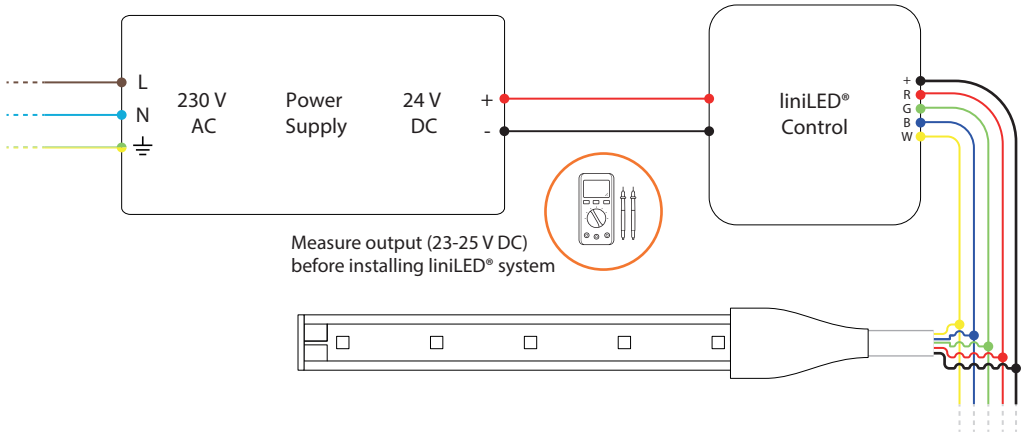


Unit: cd
C 0 /180,134.3°
C 90/270,108.8°
AVERAGE BEAM ANGLE(50%): 121.5°



Note: the above data is based on RT12-930-RGBW. For other data, please consult sales rep.

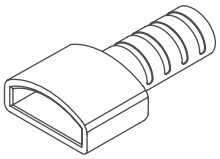
Power and connection diagram



Accessories

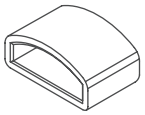
RT12-Con

liniLED® Top R Connector Cap 12 mm



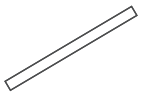
RT12-Cap

liniLED® Top R End Cap 12 mm



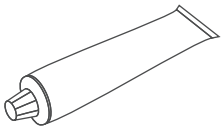
RT-C-RGBW

liniLED® Top R Cable RGBW 300mm



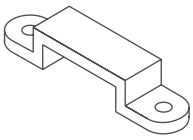
R-Glue

liniLED® Silicone glue



RT12-Clip

liniLED® Top R Mounting Clip 12mm



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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 specications.

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.

This product is resistant to solvents be applied its environment. These elements will have no harmful eect on the product.

This product can be stored and used below 0 degrees Celsius. Verify the minimum storage and operating temperature in the datasheet or manual for the lowest temperature allowed.

This product can be applied in seawater and its environment. Elements in seawater will have no harmful eect on the product.
For chemical specications of these elements see the liniLED® material sheet. Verify the IP rating for proper use.

This product can be applied inside swimming pool environments. Elements in the air will have no harmful eect on the product.
For chemical specications of these elements see the liniLED® material sheet. Verify IP rating for proper use.