



With the liniLED® Top R High Power 2000 LED strip you can illuminate spaces with an impressive lumen output of 2000 lm/m. Providing unparalleled brightness and efficiency to elevate a myriad of applications. This product is designed for effortless installation, the IP67 flexible silicon extrusion ensures seamless mounting, providing adaptability and reliability in various environments.

Experience exceptional efficiency with an impressive output of up to 150 lumens per watt, not only delivering brilliance but also promoting energy conservation for sustainable lighting solutions. The high Colour Rendering Index (CRI) of 90 guarantees accurate colour representation, enhancing the visual appeal of any illuminated space.

Engineered for longevity, the liniLED® Top R High Power 2000 boasts an exceptional L90/B10 rating, surpassing 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

- IP67 flexible silicon extrusion for easy mounting
- Easy mounting due to self-adhesive tape at the back
- 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® Top R High Power 2000 2700K CRI90
Warm White 3000K	liniLED® Top R High Power 2000 3000K CRI90
Natural White 4000K	liniLED® Top R High Power 2000 4000K CRI90
Cold White 6500K	liniLED® Top R High Power 2000 6500K CRI90

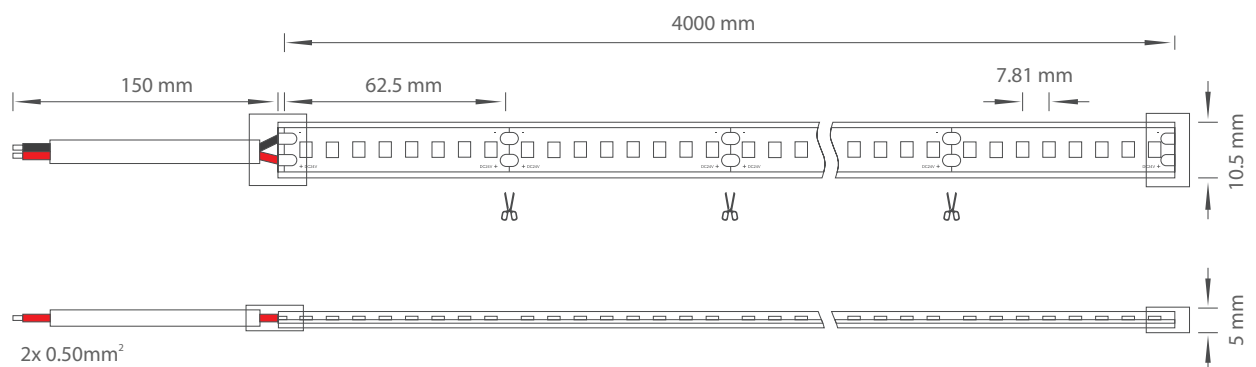


Technical specifications

	2700K	3000K	4000K	6500K
Product code	RT20-927	RT20-930	RT20-940	RT20-965
Power (24V DC)	14.4 W/m	14.4 W/m	14.4 W/m	14.4 W/m
CCT	2700K	3000K	4000K	6500K
CRI	90	90	90	90
Luminous flux	1895 lm/m	1922 lm/m	2030 lm/m	2017 lm/m
Luminous efficiency	131.6 lm/W	133.5 lm/W	141.0 lm/W	140.1 lm/W
Spool length	4 m			
Section length	62.5 mm			
LED type	2835			
Number of LEDs	128 pcs			
Max. connection length	4 m			
Min. operating voltage	23V DC			
Max. operating voltage	25V DC			
Width	10.5 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 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.

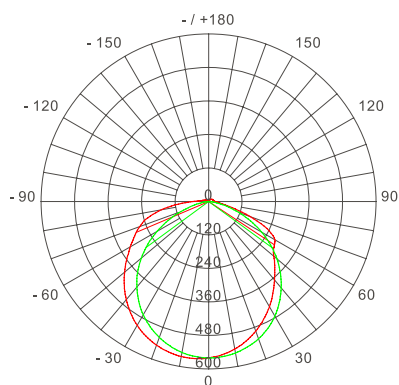
$$P_{STRIP} = P_{PRODUCT} \times X_{LENGTH} \times 110\% \left[\times \frac{U_{SUPPLY}}{24} \right]$$

- 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)



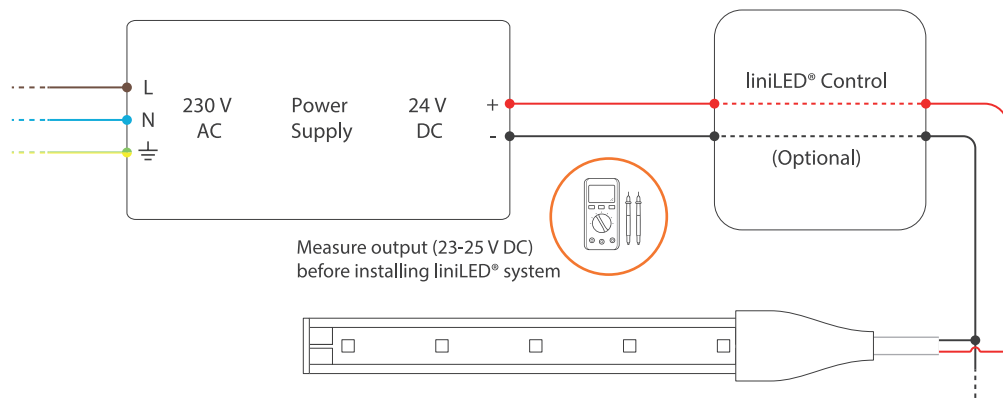
Unit: cd
 - C 0 /180,123.5°
 - C 90/270,107.6°
 AVERAGE BEAM ANGLE(50%): 115.6°

Height	Eavg	Emax	Beam Angle: 107.79°	Diameter
0.3m	2079,6455lx			82.27cm
0.6m	519,81614lx			164.54cm
0.9m	231,07172lx			246.81cm
1.2m	129,94034lx			329.08cm
1.5m	83,172582lx			411.35cm
1.8m	57,761793lx			493.62cm
2.1m	42,431317lx			575.89cm
2.4m	32,491009lx			658.16cm
2.7m	25,677969lx			740.43cm
3.0m	20,796455lx			822.70cm

Flux Out: 1114lm 4000K

Note: the above data is based on RT20-940 at 4000K. For other data, please consult sales rep.

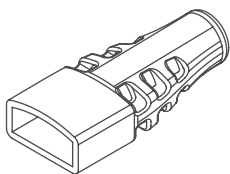
Power and connection diagram



Accessories

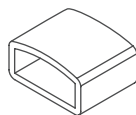
RT10-Con

liniLED® Top R Connector Cap 10 mm



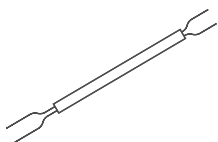
RT10-Cap

liniLED® Top R End Cap 10 mm



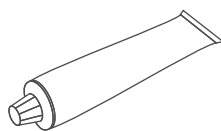
RT-C-M

liniLED® Top R Cable Mono 300mm



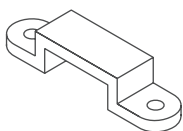
R-Glue

liniLED® Silicone glue



RT10-Clip

liniLED® Top R Mounting Clip 10mm



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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.



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.