# **liniLED®** Top R High Power 800 CRI90

The liniLED® Top R High Power 800 is designed for easy and versatile mounting. The IP67 flexible silicon extrusion ensures seamless integration even in challenging environments, providing flexibility and adaptability to various applications. Illuminate spaces with a brilliant lumen output of 800 lm/m, offering the perfect balance between brightness and energy efficiency.

Experience unparalleled efficiency with an impressive output of up to 150 lumens per watt, delivering not just brightness but also cost-effective and sustainable lighting solutions. The high Colour Rendering Index (CRI) of 90 ensures accurate colour representation, enhancing the visual appeal of any illuminated space.
Built for longevity, the liniLED® Top R High Power 800 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 fexible silicon extrusion for easy mounting
Easy mounting due to self-adhesive tape at the back
High Efciency (up to 150 lum/W)
CRI 90
L90/B10>47000hrs @ 55°C:, lumen maintenance 89.95 %
5 year warranty

## Available colours

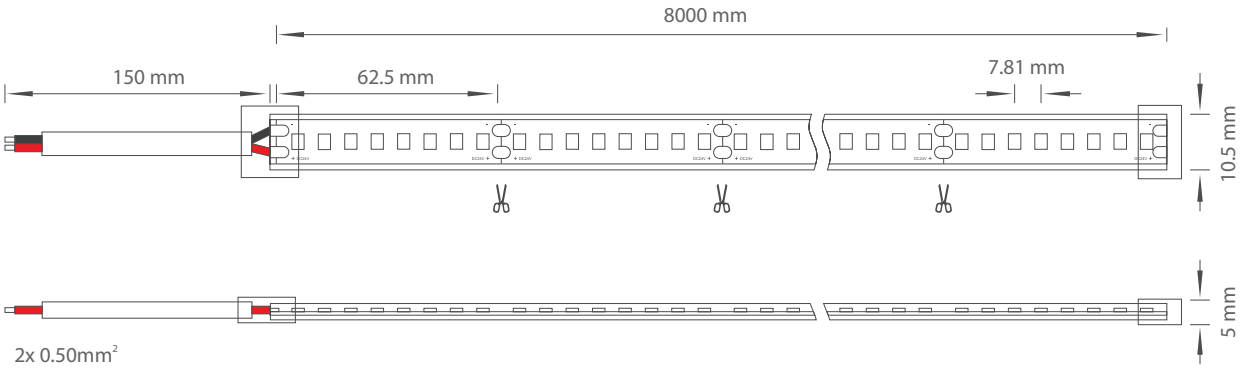
| Colour | Description |
|---|---|
| Extra Warm White 2700K | liniLED® Top R High Power 800 2700K CRI90 |
| Warm White 3000K | liniLED® Top R High Power 800 3000K CRI90 |
| Natural White 4000K | liniLED® Top R High Power 800 4000K CRI90 |
| Cold White 6500K | liniLED® Top R High Power 800 6500K CRI90 |

## Technical specifications

| | 2700K | 3000K | 4000K | 6500K |
|---|---|---|---|---|
| Product code | RT08-927 | RT08-930 | RT08-940 | RT08-965 |
| Power (24V DC) | 5.76 W/m | 5.76 W/m | 5.76 W/m | 5.76 W/m |
| CCT | 2700K | 3000K | 4000K | 6500K |
| CRI | 90 | 90 | 90 | 90 |
| Luminous flux | 758 lm/m | 769 lm/m | 812 lm/m | 807 lm/m |
| Luminous efficiency | 131.6 lm/W | 133.5 lm/W | 141.0 lm/W | 140.1 lm/W |
| Spool length | 8 m | | | |
| Section length | 62.5 mm | | | |
| LED type | 2835 | | | |
| Number of LEDs | 128 pcs | | | |
| Max. connection length | 8 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 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.

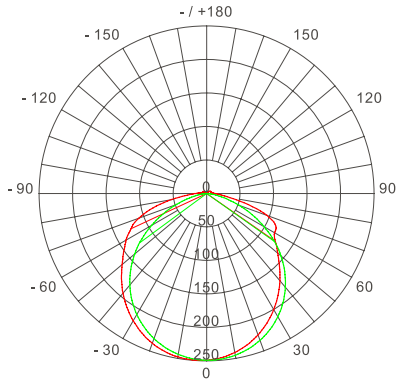
The total power consumption can be calculated by summing the requested power of all connected products. To calculate the power consumption of a single length of LED strip, use the equation below. The typical equation is valid if the product is supplied by a 24 V DC constant voltage power supply. If the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

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

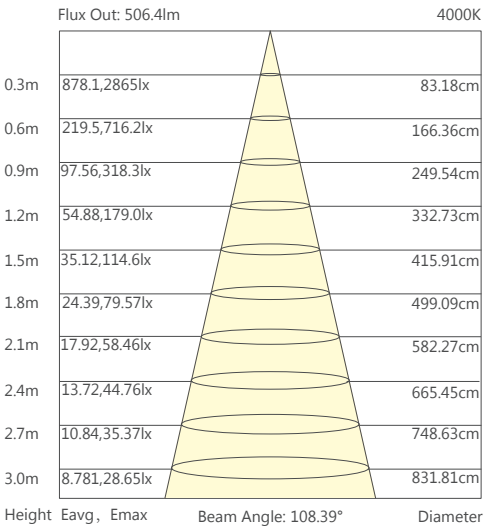
| | |
|---|---|
| $P_{STRIP}$ | Calculated power consumption of one LED strip in Watt |
| $P_{PRODUCT}$ | Typical power consumption in Watt per metre of the selected LED strip<br>This value can be found under 'Product characteristics' on page 2 |
| $X_{LENGTH}$ | Length of the connected LED strip in 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)

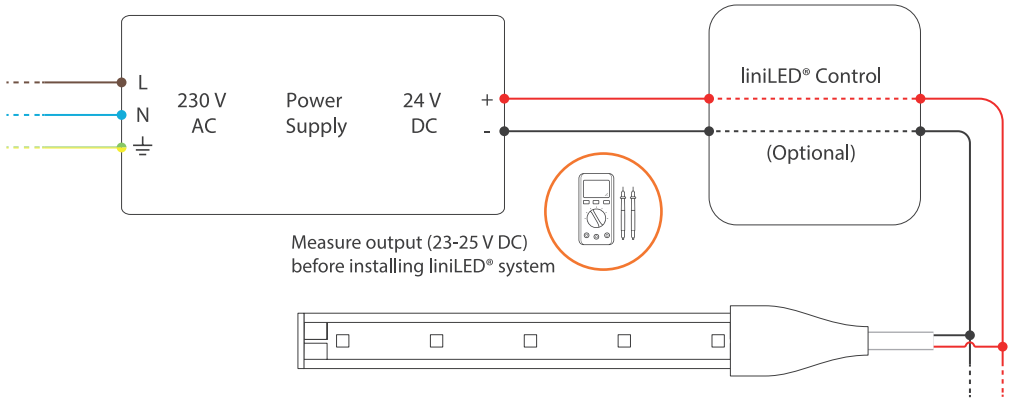



Unit: cd
C 0 /180,120.3°
C 90/270,108.3°
AVERAGE BEAM ANGLE(50%): 114.3°




Note: the above data is based on RT08-940 at 4000K. For other data, please consult sales rep.

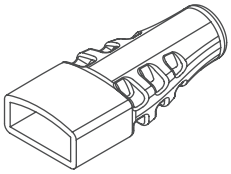
## Power and connection diagram




## Accessories

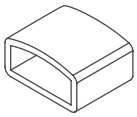
**RT10-Con**

liniLED® Top R Connector Cap 10 mm



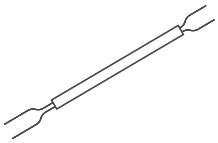
**RT10-Cap**

liniLED® Top R End Cap 10 mm



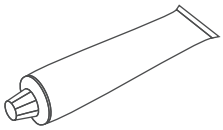
**RT-C-M**

liniLED® Top R Cable Mono 300mm



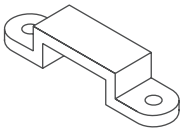
**R-Glue**

liniLED® Silicone glue



**RT10-Clip**

liniLED® Top R Mounting Clip 10mm



## 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 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.