



With the liniLED® Top R RGB 600 LED strip you can illuminate spaces with vibrant colours, offering a lumen output of 600 lm/m for dynamic and captivating lighting experiences.

Designed for ease of installation, the IP67 flexible silicon extrusion ensures seamless mounting, providing versatility and reliability in various environments. Achieve remarkable efficiency with an output of up to 130 lumens per watt, delivering not just vivid colours but also energy-conscious and sustainable lighting solutions.

Benefit from a great lumen maintenance function, ensuring a long service life for the liniLED® Top R RGB 600. The high Colour Rendering Index (CRI) of 90 guarantees precise 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
- High brightness and lumen efficiency
- 50mm cutting sections
- Long lifespan with great lumen maintenance
- 120 leds per meter
- 3 year warranty

**Available colours**

Colour	Description
 RGB	liniLED® Top R RGB 600

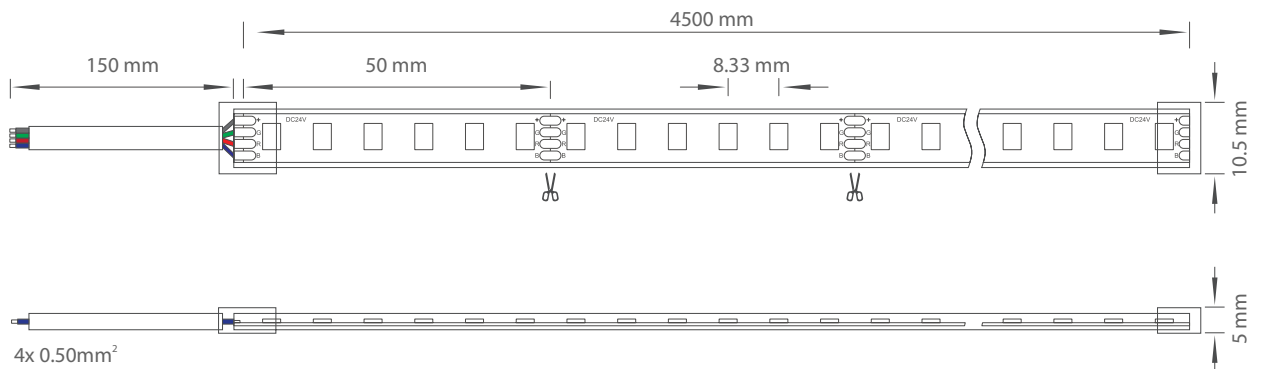


## Technical specifications

	RGB
Product code	RT06-RGB
Power (24V DC)	19.2 W/m
Color	RGB
CRI	/
Luminous flux	578 lm/m
Luminous efficiency	30.1 lm/W
Spool length	4.5 m
Section length	50 mm
LED type	4040
Number of LEDs	120 pcs
Max. connection length	4.5 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.

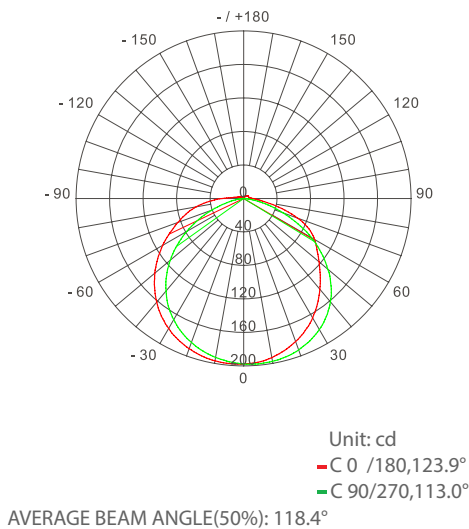
$$P_{STRIP} = P_{PRODUCT} \times X_{LENGTH} \times 110\% \left[ \times \frac{U_{SUPPLY}}{24} \right]$$

- $P_{STRIP}$**  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)



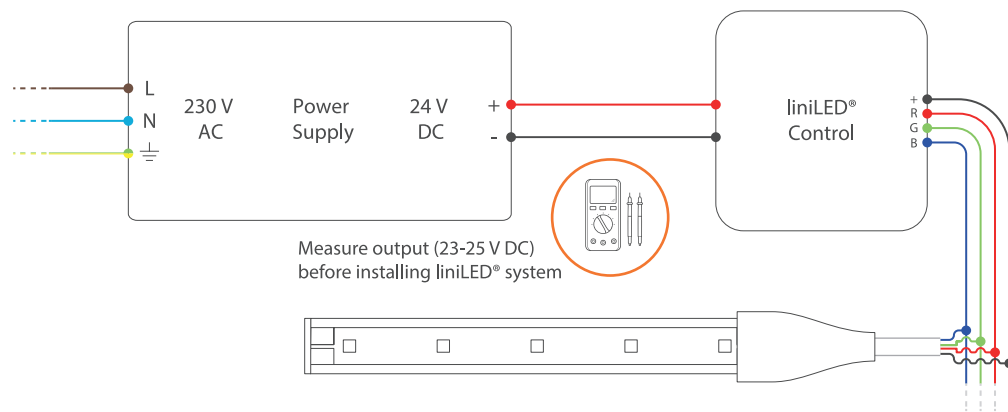
Flux Out: 440.3lm

0.3m	656.7,2279lx	91.89cm
0.6m	164.2,569.7lx	183.78cm
0.9m	72.97,253.2lx	275.67cm
1.2m	41.05,142.4lx	367.56cm
1.5m	26.27,91.15lx	459.45cm
1.8m	18.24,63.30lx	551.34cm
2.1m	13.40,46.51lx	643.23cm
2.4m	10.26,35.61lx	735.11cm
2.7m	8.108,28.13lx	827.00cm
3.0m	6.567,22.79lx	918.89cm

Height Eavg, Emax Beam Angle: 113.71° Diameter

Note: the above data is based on RT06-RGB. For other data, please consult sales rep.

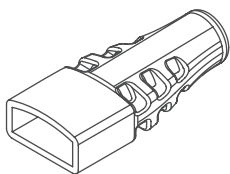
## Power and connection diagram



## Accessories

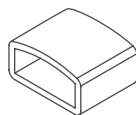
### RT10-Con

liniLED® Top R Connector Cap 10 mm



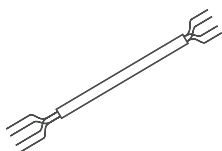
### RT10-Cap

liniLED® Top R End Cap 10 mm



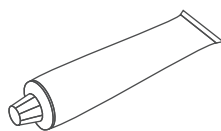
### RT-C-RGB

liniLED® Top R Cable RGB 300mm



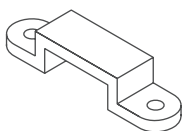
### R-Glue

liniLED® Silicone glue



### RT10-Clip

liniLED® Top R Mounting Clip 10mm



## Disclaimer

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## Symbols

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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 diffusive 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.



System guarantee of 3 years when the complete system consist of liniLED® products with the 3 years system warranty logo. Terms & conditions apply.



This product is resistant to solvents be applied its environment. These elements will have no harmful effect 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 effect on the product. For chemical specifications 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 effect on the product. For chemical specifications of these elements see the liniLED® material sheet. Verify IP rating for proper use.