



Elevate your lighting projects with the liniLED® PCB R Tunable White LED strip—where innovation meets efficiency and durability, delivering a dynamic lighting experience. Immerse spaces in dynamic illumination with the power of tunable white technology, allowing you to effortlessly adjust colour temperatures for versatile and personalized lighting experiences.





With a commendable efficiency of up to 130 lumens per watt, this LED strip not only ensures a bright and energy-efficient ambiance but also boasts a great lumen maintenance function, promising an extended service life. The Colour Rendering Index (CRI) of 90 ensures true-to-life colour representation, enhancing the visual appeal of any environment.

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

USPs

- High Efficiency (up to 130 lum/W)
- Long lifespan with great lumen maintenance
- CRI 90
- 5 year warranty

Available colours

| Colour | Description |
|---|--|
|  2200-3500K | liniLED® PCB R Tunable White 1100 2200-3500K CRI90 |
|  2700-6500K | liniLED® PCB R Tunable White 1100 2700-6500K CRI90 |
|  2200-3500K | liniLED® PCB R Tunable White 3400 2200-3500K CRI90 |
|  2700-6500K | liniLED® PCB R Tunable White 3400 2700-6500K CRI90 |

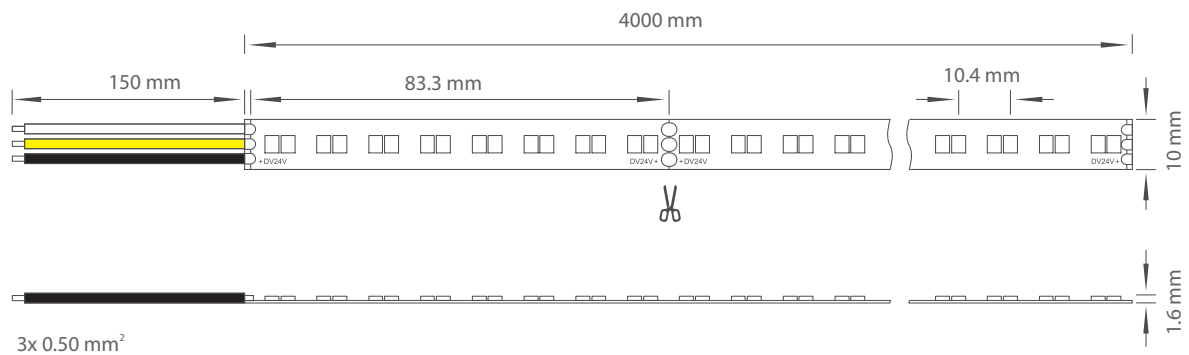


Technical specifications

| | 2200K - 3500K | 2700K - 6500K | 2200K - 3500K | 2700K - 6500K |
|------------------------|----------------------------------|---------------|---------------|---------------|
| Product code | RP11-92235-TW | RP11-92765-TW | RP34-92235-TW | RP34-92765-TW |
| Power (24V DC) | 8.64 W/m | 8.64 W/m | 25.92 W/m | 25.92 W/m |
| CCT | 2200K - 3500K | 2700K - 6500K | 2200K - 3500K | 2700K - 6500K |
| CRI | 90 | 90 | 90 | 90 |
| Luminous flux | 1123 lm/m | 1150 lm/m | 3370 lm/m | 3450 lm/m |
| Luminous efficiency | 130 lm/W | 133 lm/W | 130 lm/W | 133 lm/W |
| Spool length | 4 m | 4 m | 1.5 m | 1.5 m |
| Section length | 83.3 mm | | | |
| LED type | 2835 | | | |
| Number of LEDs | 192 pcs | | | |
| Max. connection length | 4 m | 4 m | 1.5 m | 1.5 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.

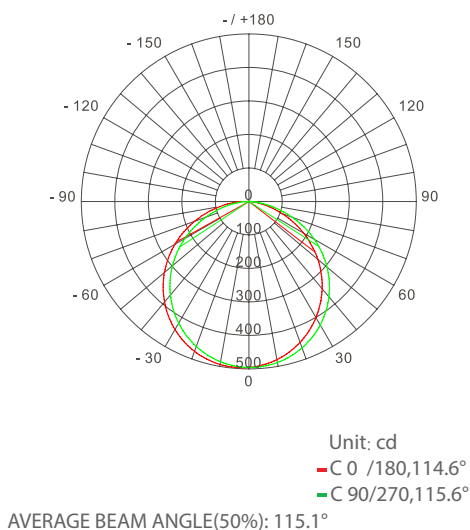
$$P_{STRIP} = P_{PRODUCT} \times X_{LENGTH} \times 110\% \left[\times \frac{U_{SUPPLY}}{24} \right]$$

- 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)



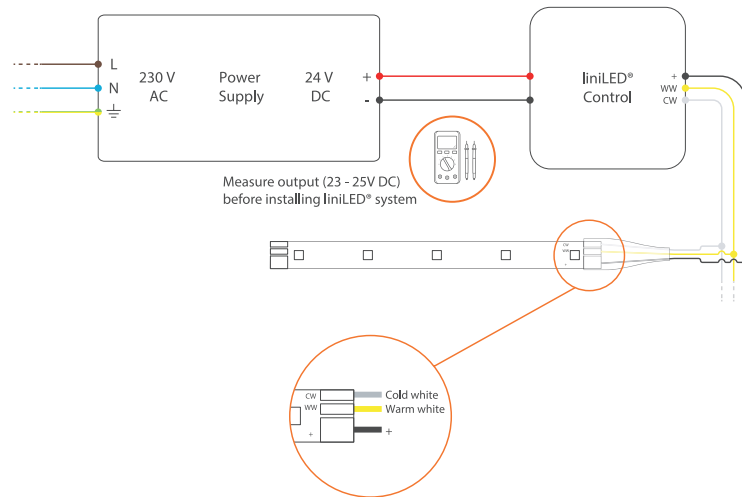
Flux Out: 995.9lm

| | | |
|------|---------------|----------|
| 0.3m | 1859,5713lx | 80.07cm |
| 0.6m | 464.8,1428lx | 160.15cm |
| 0.9m | 206.6,634.8lx | 240.22cm |
| 1.2m | 116.2,357.1lx | 320.29cm |
| 1.5m | 74.37,228.5lx | 400.36cm |
| 1.8m | 51.65,158.7lx | 480.44cm |
| 2.1m | 37.95,116.6lx | 560.51cm |
| 2.4m | 29.05,89.27lx | 640.58cm |
| 2.7m | 22.96,70.53lx | 720.66cm |
| 3.0m | 18.59,57.13lx | 800.73cm |

Height Eavg, Emax Beam Angle: 106.31° Diameter

Note: the above data is based on RP11-92235-TW. For other data, please consult sales rep.

Power and connection diagram



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 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.



The CRI value of this product is 90 or higher.



System guarantee of 5 years when the complete system consists of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.