Crafted with high-quality components, the liniLED® Neon R Top Silicone ensures reliable performance, meeting the demands of both indoor and outdoor installations. Experience superior flexibility, enabling top bending and easy shaping to accommodate various design requirements and architectural features.

This versatile product offers a range of options including Single Colour, Tunable White, RGB, and RGBW, providing dynamic and customizable lighting solutions for a variety of applications. With a high Colour Rendering Index (CRI) of 90, this product guarantees accurate colour representation, enhancing the visual appeal of any illuminated space.

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

USPs

Options for Single Colour, Tunable White, RGB and RGBW
High quality components with reliable performance.
Good flexibility, top bending and easy to shape.
CRI 90
Warranty: 5 years indoor, 3 years outdoor.

Available colours

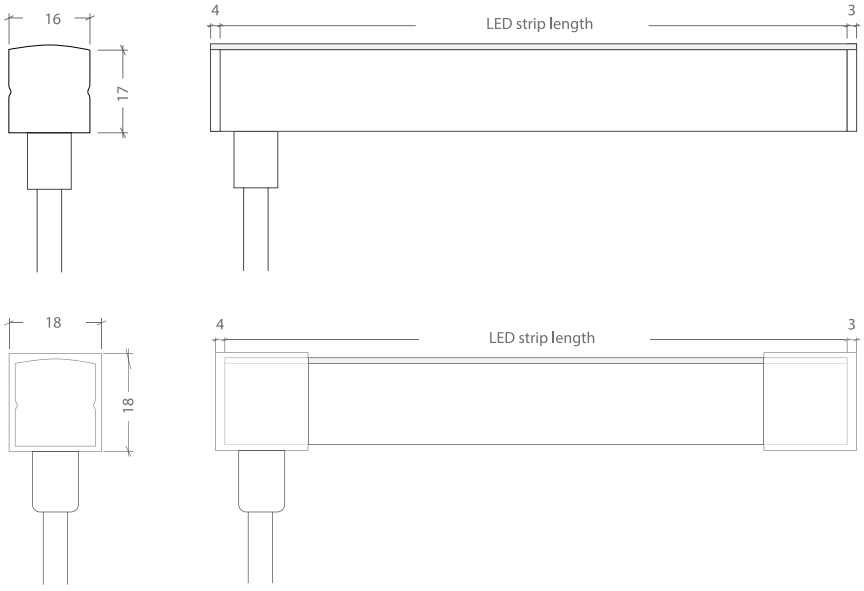
Colour	Description
Extra Warm White 2700K	liniLED® Neon R Top 1200 2700K CRI90
Warm White 3000K	liniLED® Neon R Top 1200 3000K CRI90
Natural White 4000K	liniLED® Neon R Top 1200 4000K CRI90
Cold White 6500K	liniLED® Neon R Top 1200 6500K CRI90
2700 - 6500K	liniLED® Neon R Top Tunable White 1000 2700-6500K CRI90
Red	liniLED® Neon R Top Red 200
Green	liniLED® Neon R Top Green 700
Blue	liniLED® Neon R Top Blue 100
RGB	liniLED® Neon R Top RGB 300
RGBW	liniLED® Neon R Top RGBW 600 3000K CRI90

Technical specifications

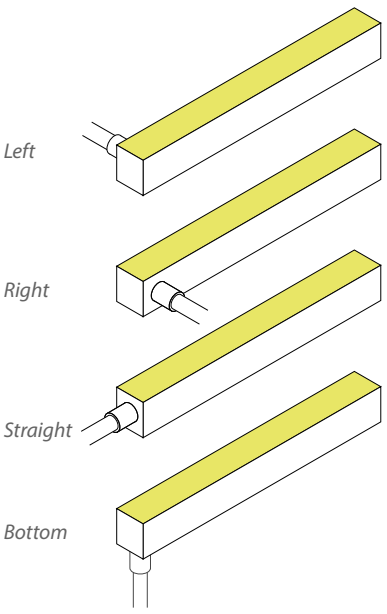
	Neon R Top 1200 2700K CRI90	Neon R Top 1200 3000K CRI90	Neon R Top 1200 4000K CRI90	Neon R Top 1200 6500K CRI90	Neon R Side TW1000 2700-6500K CRI90
Product code	RNT16-927	RNT16-930	RNT16-940	RNT16-965	RNT16-92765-TW
Power (24V DC)	17.28 W/m	17.28 W/m	17.28 W/m	17.28 W/m	14.4 W/m
CCT	2700K	3000K	4000K	6500K	2700-6500K
CRI	90+	90+	90+	90+	90+
Luminous flux	1200 lm/m	1200 lm/m	1200 lm/m	1200 lm/m	941 lm/m
Luminous efficiency	69.4 lm/W	69.4 lm/W	69.4 lm/W	69.4 lm/W	65.3 lm/W
Spool length	10m/roll	10m/roll	10m/roll	10m/roll	10m/roll
Section length	50.0 mm	50.0 mm	50.0 mm	50.0 mm	50.0 mm
LED type	2835	2835	2835	2835	2835
Number of LEDs/m	140 pcs	140 pcs	140 pcs	140 pcs	240 pcs
Max. connection length	10.0 m	10.0 m	10.0 m	10.0 m	10.0 m
Dimensions (W x H)	16 x 17 mm				
Dimmable	PWM Dimming				
MacAdam Steps	3 Steps				
Beam angle	115				
Ingress protection	IP67				
Storage temperature	-20˚C ... +60˚C				
Operating temperature	-20˚C ... +70˚C				
Minimum bending radius	> 120				

Typical measured values are given, which due to tolerances in components and production process can vary up to 10%.

Product drawings



Outlet directions

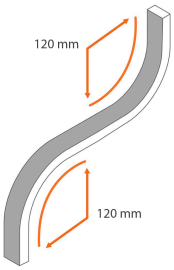


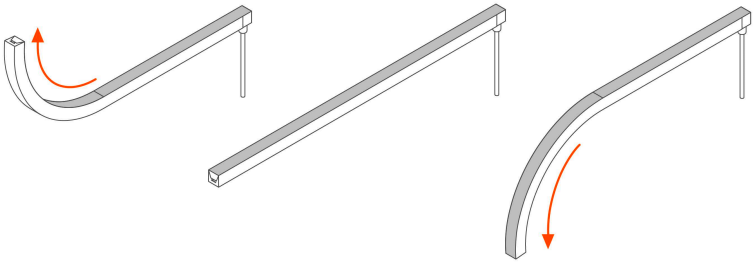
Technical specifications

	Neon R Top Red 200	Neon R Top Green 700	Neon R Top Blue 100	Neon R Top RGB 300	Neon R Top RGBW 600 3000K CRI90
Product code	RNT16-R	RNT16-G	RNT16-B	RNT16-RGB	RNT16-930-RGBW
Power (24V DC)	17.20 W/m	17.20 W/m	17.20 W/m	17.20 W/m	19.20 W/m
CCT	Red	Green	Blue	RGB	RGBW + 3000K
CRI	--	--	--	--	--
Luminous flux	235 lm/m	687 lm/m	148 lm/m	317 lm/m	553 lm/m
Luminous efficiency	13.7 lm/W	39.9 lm/W	8.6 lm/W	18.4 lm/W	28.8 lm/W
Spool length	10m/roll	10m/roll	10m/roll	10m/roll	10m/roll
Section length	62.5 mm	62.5 mm	62.5 mm	83.3 mm	71.4 mm
LED type	4040	4040	4040	4040	5050
Number of LEDs/m	112 pcs	112 pcs	112 pcs	72 pcs	84 pcs
Max. connection length	10.0 m	10.0 m	10.0 m	5.0 m	5.0 m
Dimensions (W x H)	16 x 17 mm				
Dimmable	PWM Dimming				
MacAdam Steps	3 Steps				
Beam angle	115				
Ingress protection	IP67				
Storage temperature	-20˚C ... +60˚C				
Operating temperature	-20˚C ... +70˚C				
Minimum bending radius	> 120				

Typical measured values are given, which due to tolerances in components and production process can vary up to 10%.

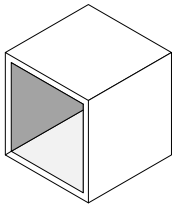
Bending radius and direction



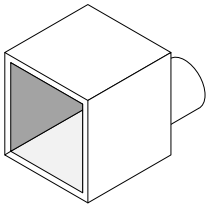


End caps

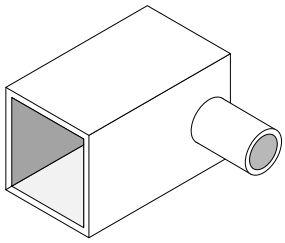
RN16-Cap
liniLED® Neon R 16x17
End Cap



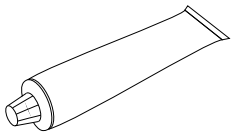
RN16-Con-S
liniLED® Neon R 16x17
Connector Straight



RN16-Con-A
liniLED® Neon R 16x17
Connector Angled

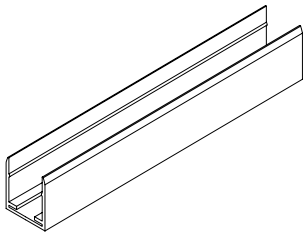


R-glue
liniLED® Silicone glue

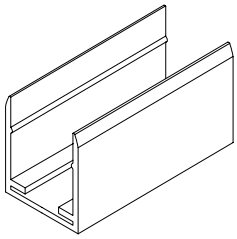


Mounting profiles

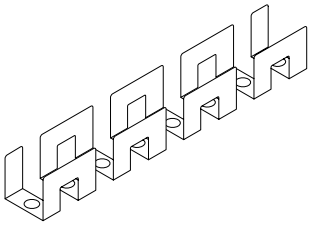
RN16-ALU1000
liniLED® Neon R 16x17
Aluminium profile 1000 mm



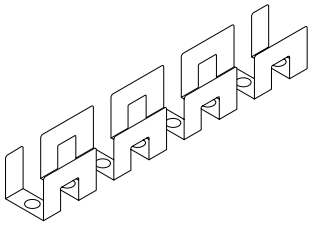
RN16-ALU35
liniLED® Neon R 16x17
Aluminium Profile 35 mm



RN16-S05M
liniLED® Stainless Steel
S-track 0.5 m

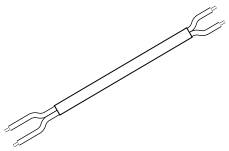


RN16-S10M
liniLED® Stainless Steel
S-track 1.0 m

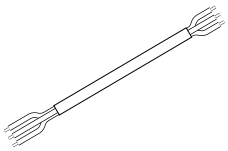


Cables

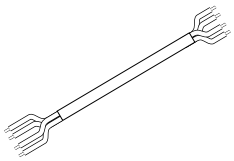
RN-C-M
liniLED® Neon R Cable
Mono 150 mm



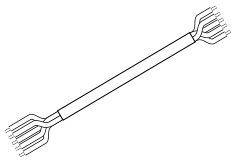
RN-C-TW
liniLED® Neon R Cable
TW 150 mm



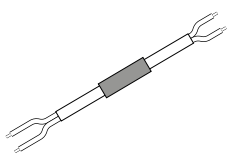
RN-C-RGB
liniLED® Neon R Cable
RGB 150 mm



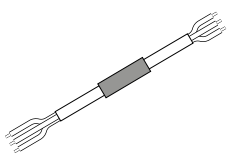
RN-C-RGBW
liniLED® Neon R Cable
RGBW 150 mm



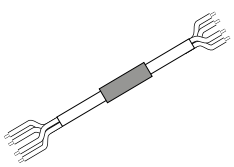
RN-CW-M
liniLED® Neon R Cable
Mono 300mm - Waterstop



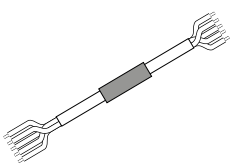
RN-CW-TW
liniLED® Neon R Cable
TW 300mm - Waterstop



RN-CW-RGB
liniLED® Neon R Cable
RGB 300mm - Waterstop



RN-CW-RGBW
liniLED® Neon R Cable
RGBW 300mm - Waterstop



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.

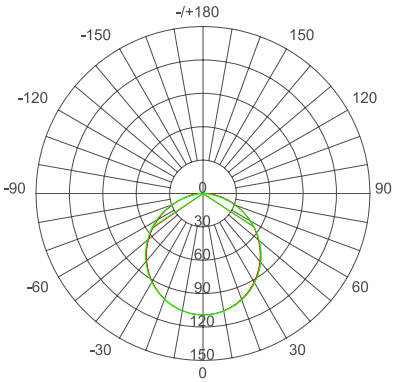
The total power consumption can be calculated by summing the requested power of all connected products. To calculate the power consumption of a single length of LED strip, use the equation below. The typical equation is valid if the product is supplied by a 24 V DC constant voltage power supply. If the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

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

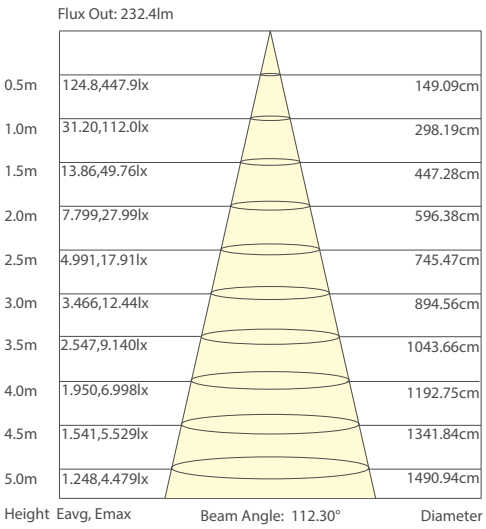
P_{STRIP}	Calculated power consumption of one LED strip in Watt
$P_{PRODUCT}$	Typical power consumption in Watt per metre of the selected LED strip This value can be found under 'Product characteristics' on page 2
X_{LENGTH}	Length of the connected LED strip in metres
110%	Safety margin to buffer differences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

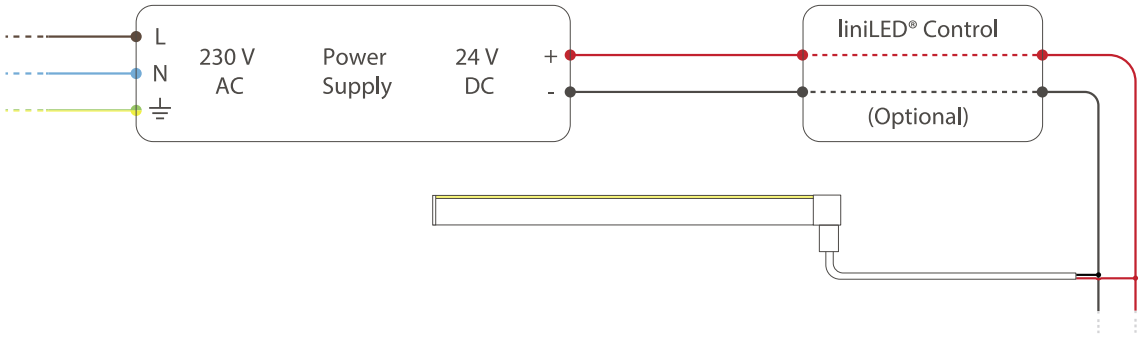


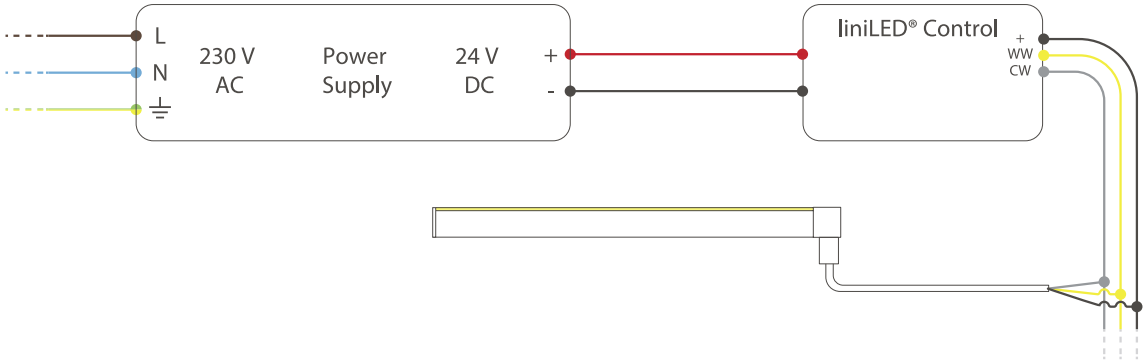
Unit: cd
C 0 /180,112.3°
C 90/270,113.3°
AVERAGE BEAM ANGLE(50%): 112.8°

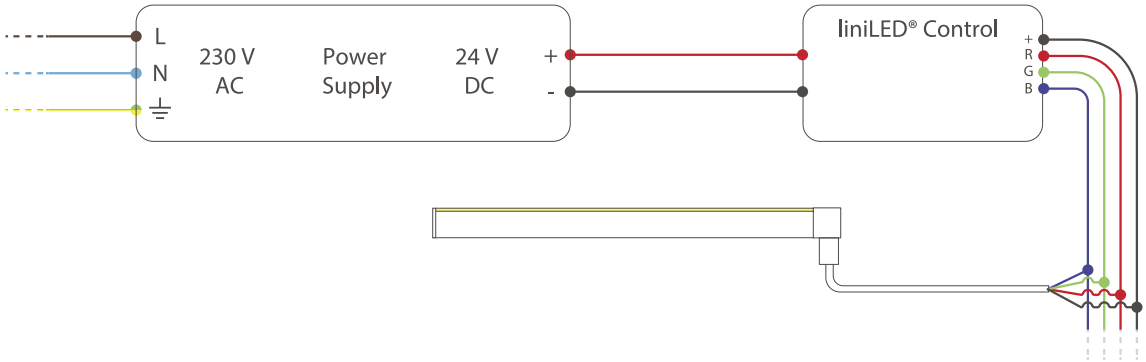


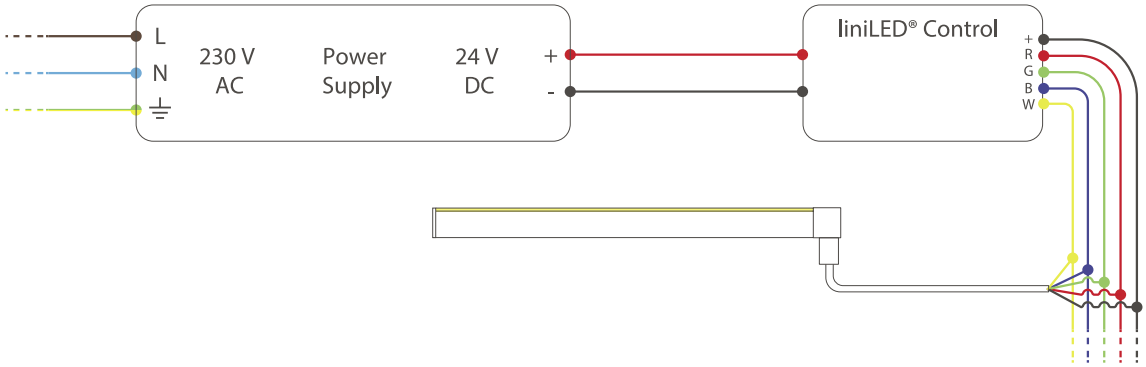
Note: the above data is based on RNT16-RGB. For other data, please consult sales rep.

Measure output (23 - 25V DC)
before installing liniLED® system









Symbols

Below is the general explanation of the symbols. Check the product specifi cations page for the values belonging to this specifi c product.

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.

Dust-tight, no ingress of dust. Protected against the eects of temporary immersion in water (Immersion in water at a maximum depth of 1 metre up to a half hour).

The binning tolerance of this product is 3 MacAdam.

The CRI value of this product is 90 or higher.

Product is resistant against ultraviolet (UV) light or sunlight. Non-UV resistant products can degrade or discolour fast when exposed to UV light.

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.

This product is available on request and can be applied submerged in swimming pools and their environment. Disinfectants 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.

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

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

Disclaimer

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