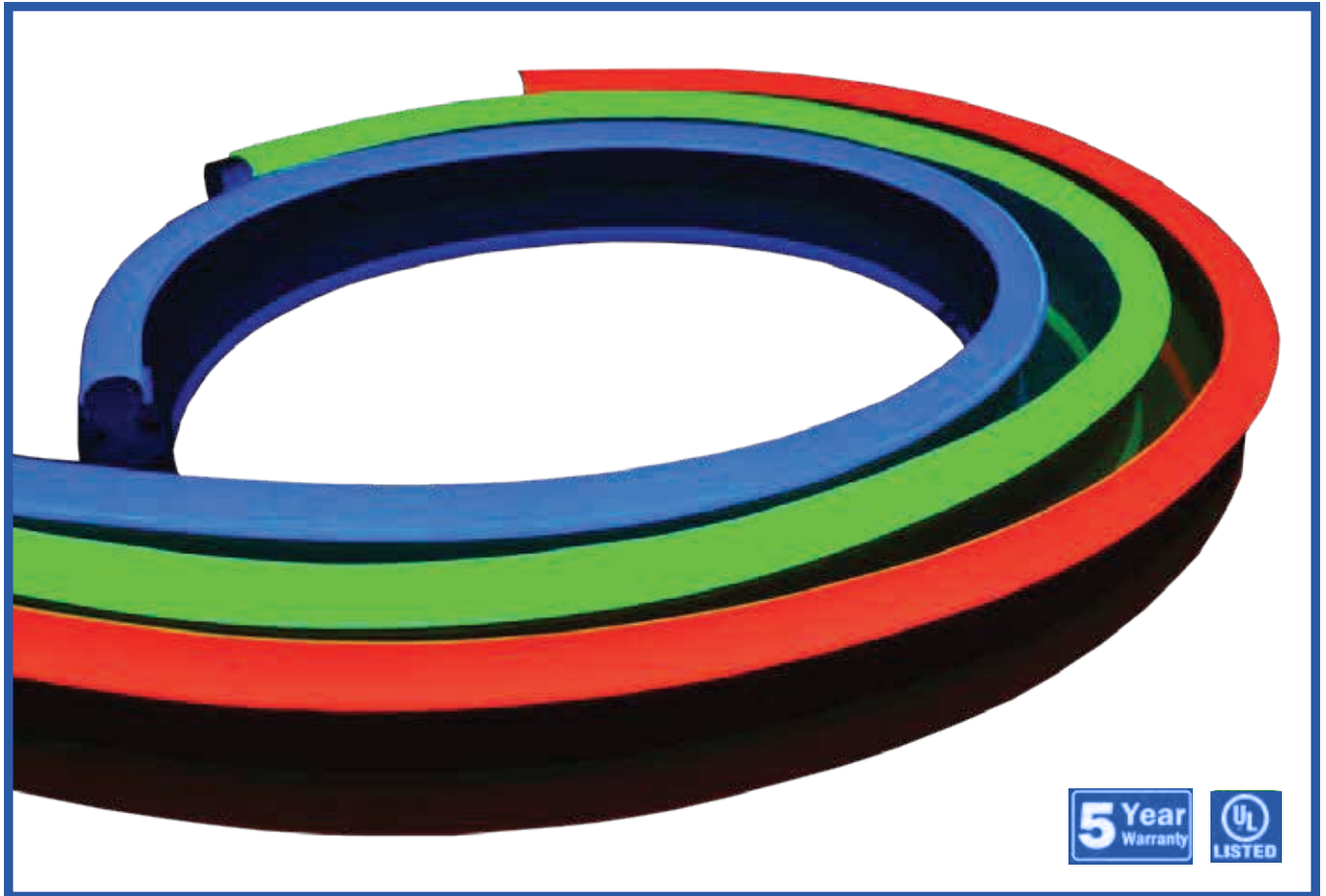# LED NEON ROPE LIGHT

LED Neon rope light is the highest quality rope in the market. These Rope light is made of high quality silicone which is fully water proof and heat resistance and will maintain it's outer color for a lifetime without even fading. Rope is available in two types D and S types. D type is specially design to use around the building and S type is specially design to customize any number or character like "COKE."

- Flexible and cuttable modules marked for design freedom
- Optional aluminum profile & clips are available

- Dot-free linear neon illumination
- Fabricated with UV-resistant silicone material

LED NEON ROPE LIGHT

NOTHING BUT LEDS

S Type Neon Rope

SKU #	Model #	Watts	Color	Length	Type	Lifespan	Input Voltage	Certifications
1100189	N23A-W	9.6 W/M	White	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1100197	N23A-R	9.6 W/M	Red	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1100205	N23A-G	9.6 W/M	Green	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1100213	N23A-B	9.6 W/M	Blue	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1100221	N23A-Y	9.6 W/M	Yellow	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1510175	BLT-RGB-O-24V	17.3 W/M	RGB	49ft Roll	S Type	50,000 Hrs	24VDC	UL
1100288				S TYPE Mounting Clip				
1100304				S TYPE - Aluminum Strip / Profile				

D Type Neon Rope

SKU #	Model #	Watts	Color	Length	Type	Lifespan	Input Voltage	Certifications
1510440	BLT-RGB-O-24V	17.3 W/M	RGB	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100239	BLT-CCFG-0-24V-W	7.7 W/M	White	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100247	BLT-CCFG-0-24V-R	7.7 W/M	Red	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100254	BLT-CCFG-0-24V-G	7.7 W/M	Green	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100262	BLT-CCFG-0-24V-B	7.7 W/M	Blue	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100270	BLT-CCFG-0-24V-Y	7.7 W/M	Yellow	49ft Roll	D Type	50,000 Hrs	24VDC	UL
1100296				D TYPE Mounting Clip				
1100403				D TYPE - Aluminum Strip / Profile				

Optional Wireless Bluetooth Controller for RGB LED Neon Rope Lights - SKU: 1010717

LED NEON ROPE LIGHT

5 Year Warranty

UL LISTED

Features

- 24V DC

Advantages

- Easy to install and operate.
- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Green and eco-friendly without mercury.

LED NEON ROPE LIGHT

LED Neon Rope Lights - S Type				
SKU #	1100189	1100197	1100205	1100213	1100221
MODEL #	BLT-CCFG-O-24V-W	BLT-CCFG-O-24V-R	BLT-CCFG-O-24V-G	BLT-CCFG-O-24V-B	BLT-CCFG-O-24V-Y
CONSUMPTION	2.93W/Foot	2.93W/Foot	2.93W/Foot	2.93W/Foot	2.93W/Foot
COLOR	White	Red	Green	Blue	Yellow

Specifications

COLOR TEMPERATURE	6500K for White Only
VIEWING ANGLE	150°
INPUT VOLTAGE	24VDC Constant Voltage
LED QTY/M	120 PCS
WATERPROOF RATING	IP67

Fixture Specifications

LED TYPE	SMD 3014
MATERIALS	Silicone
LENGTH PER ROLL	45ft

CORRELATED
COLOR TEMPERATURE
(CCT)

6500K ▶ COOL WHITE

NEUTRAL WHITE

WARM WHITE
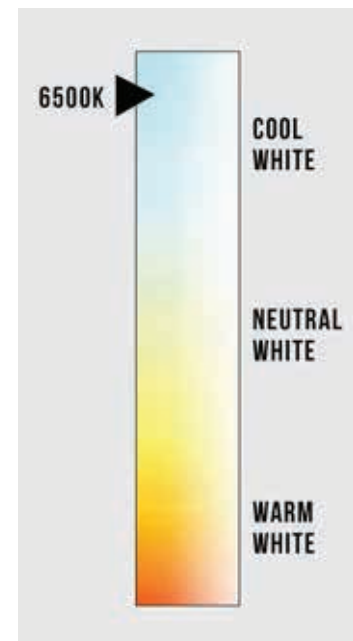
Others

OPERATING TEMPRATURE	APPLICATION	BEAM ANGLE
-13°F TO 140°F	Outdoor & Signage	150°

Warranty & Qualification

WARRANTY	UL LISTED
5 Year Limited	Yes

LED NEON ROPE LIGHT

Drawing
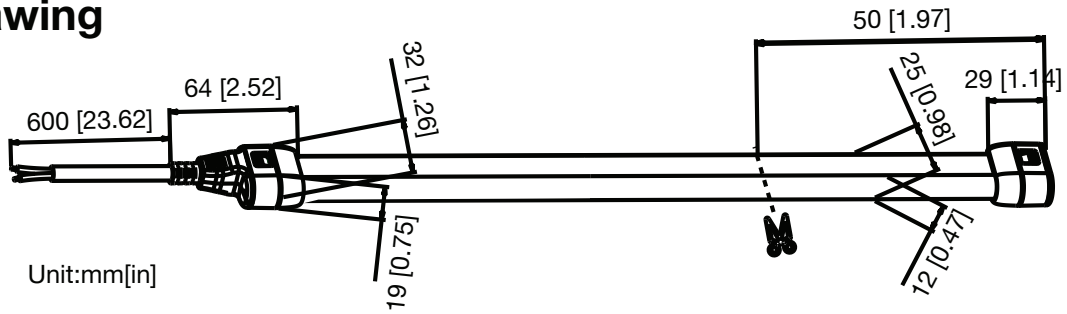
Unit:mm[in]
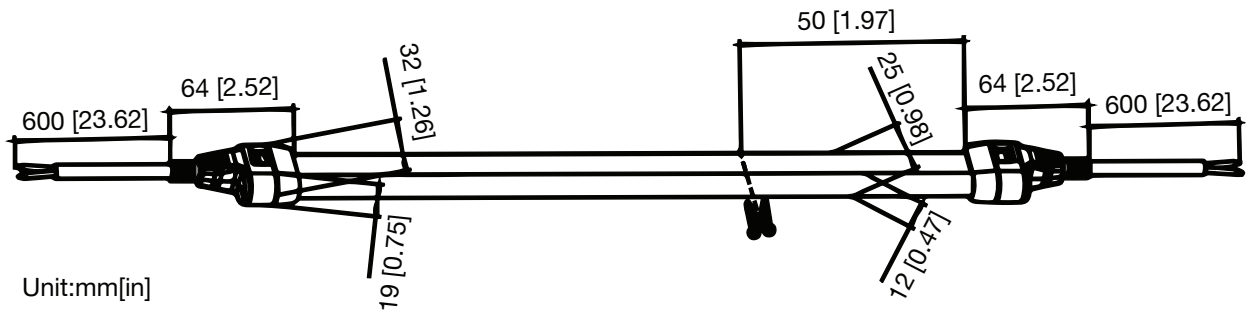
BOX TYPE	SIZE	QTY / CARTON	WEIGHT / CARTON
Single Box	15" x 14.75" x 8"	1	13 lbs
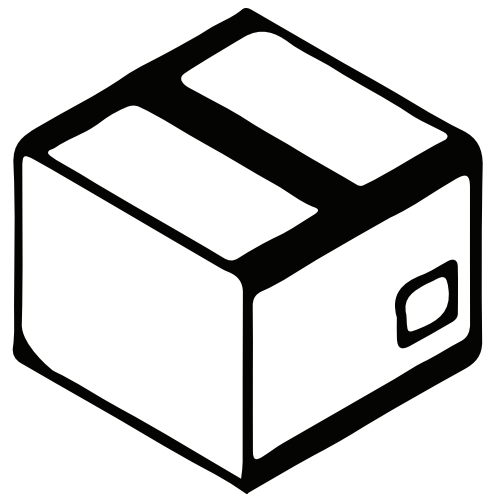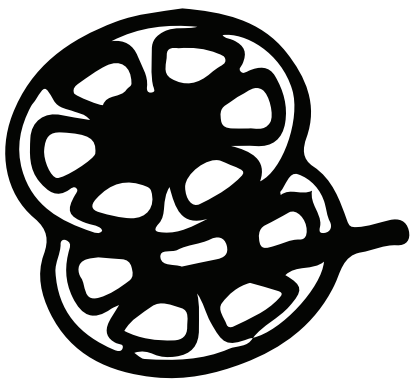
LED NEON ROPE LIGHT

Light Distribution Testing Parameters

AVERAGE BEAM ANGLE(50%): 175.2°
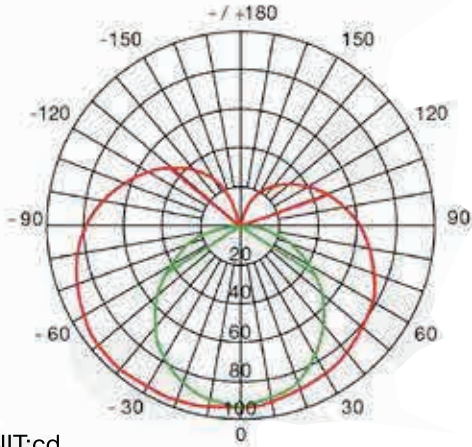
UNIT:cd
— C0/180, 237.5
— C90/270, 112.8

| White | Red | Green | Blue | Yellow |
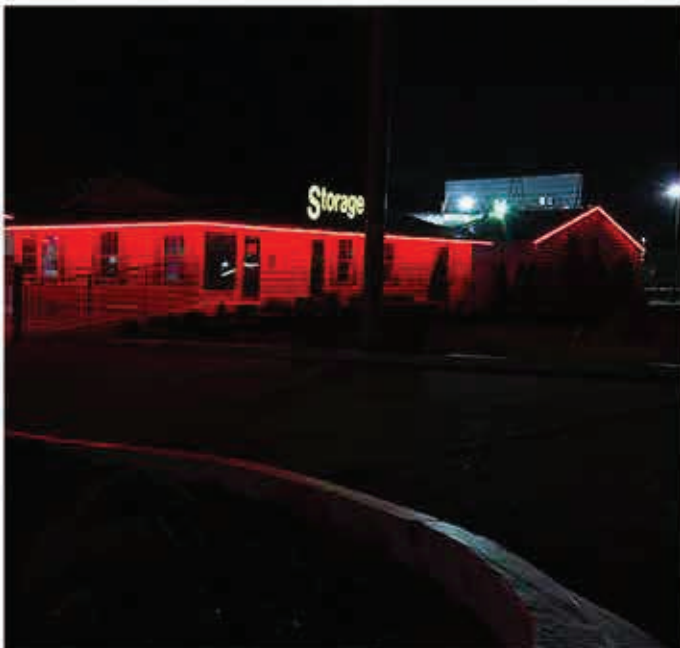
Optional Accessories

Aluminum Profile

LED NEON ROPE LIGHT

5 Year Warranty **UL LISTED**

Features

Advantages

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- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Green and eco-friendly without mercury.

- 24V DC

LED NEON ROPE LIGHT

LED Neon Rope Lights - D Type				
SKU #	1100239	1100247	1100254	1100262	1100270
MODEL #	BLT-Flex-A0-24-W	BLT-Flex-A0-24-R	BLT-Flex-A0-24-G	BLT-Flex-A0-24-**B**	BLT-Flex-A0-24-Y
CONSUMPTION	2.35W/Foot	2.35W/Foot	2.35W/Foot	2.35W/Foot	2.35W/Foot
COLOR	White	Red	Green	Blue	Yellow

Specifications

COLOR TEMPERATURE	6500K for White Only
VIEWING ANGLE	172°
INPUT VOLTAGE	24VDC with Current Regulator
LED QTY/M	112 PCS
WATERPROOF RATING	IP66

Fixture Specifications

LED TYPE	SMD 3014
MATERIALS	Silicone
LENGTH PER ROLL	49ft

CORRELATED COLOR TEMPERATURE (CCT)
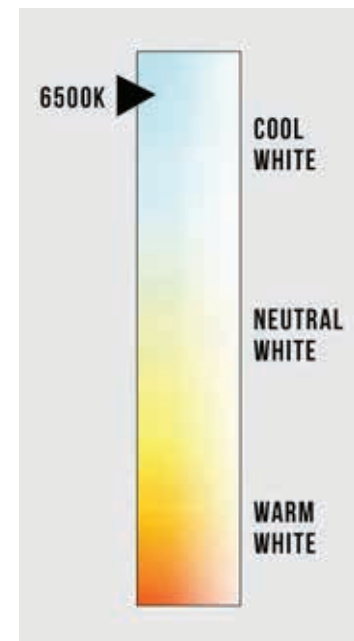
Others

OPERATING TEMPRATURE	APPLICATION	BEAM ANGLE	DIMMABLE
-13°F TO 140°F	Outdoor & Signage	172°	Yes

Warranty & Qualification

WARRANTY	UL LISTED
5 Year Limited	Yes

LED NEON ROPE LIGHT

Drawing

15000 [590.55]

16.2 [0.64]

15 [0.59]

31 [1.22]

15 [0.59]

15.8 [0.62]

15.8 [0.62]

13.2 [0.52]

Unit:mm[in]

30000 [1181.1]

31 [1.22]

15 [0.59]

31 [1.22]

15 [0.59]

15.8 [0.62]

15.8 [0.62]

13.2 [0.52]

Unit:mm[in]
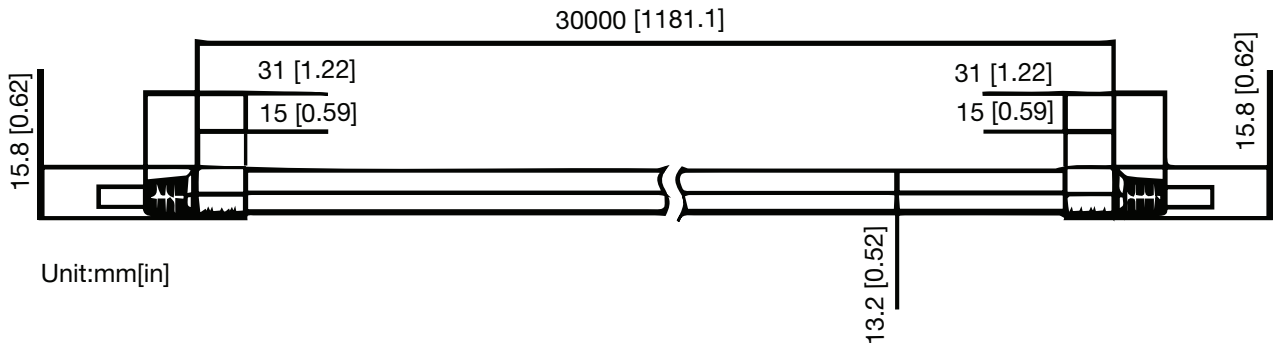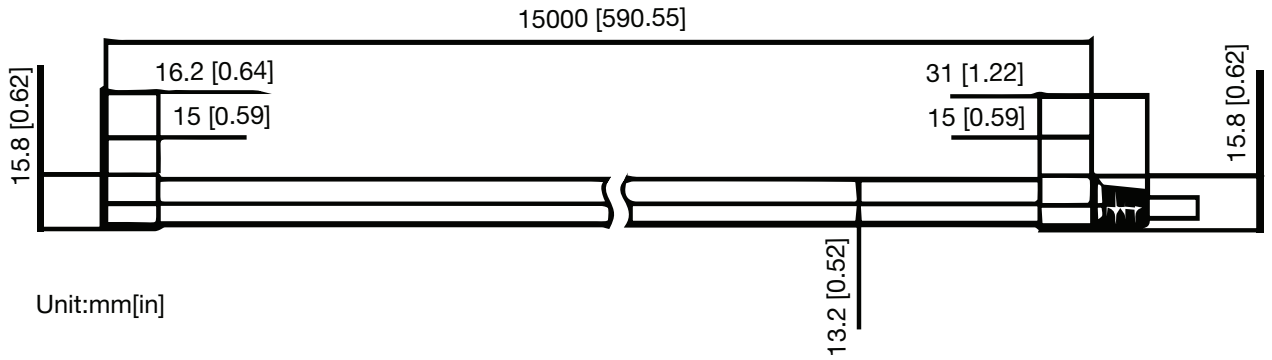
BOX TYPE	SIZE	QTY / CARTON	WEIGHT / CARTON
Single Box	15" x 15" x 8.25"	1	14 lbs

LED NEON ROPE LIGHT

Light Distribution Testing Parameters

AVERAGE BEAM ANGLE(50%): 172.1°

UNIT:cd
- C0/180, 190.7°
- C30/210, 201.9°
- C60/240, 170.4°
- C90/270, 125.5°

White	Red	Green	Blue	Yellow

Optional Accessories

Aluminum Profile

NOTHING BUT LEDS

LED NEON ROPE LIGHT

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- Dot-free linear neon illumination
- Fabricated with UV-resistant silicone material

LED NEON ROPE LIGHT

NOTHING BUT LEDS

Features
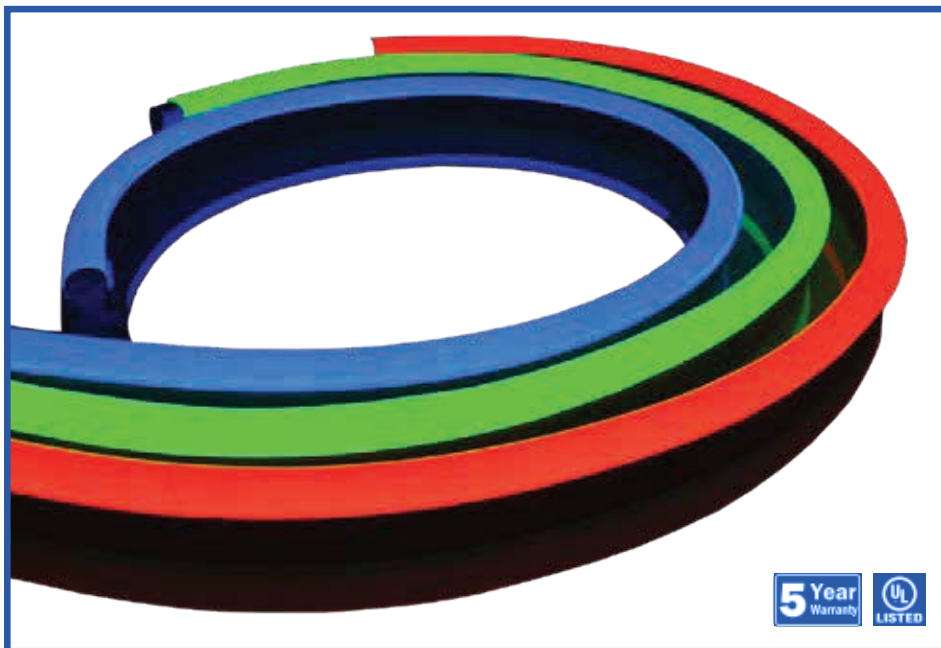
| LM-80 | 5050 | 24V | 120° | IP67 | 4years |

1. High efficacy 5050 SMD
2. Min bending diameter in 30mm [1.18in]
3. Easy installation on uneven surface
4. IP67 for dust and water proof
5. Input voltage: 24V DC
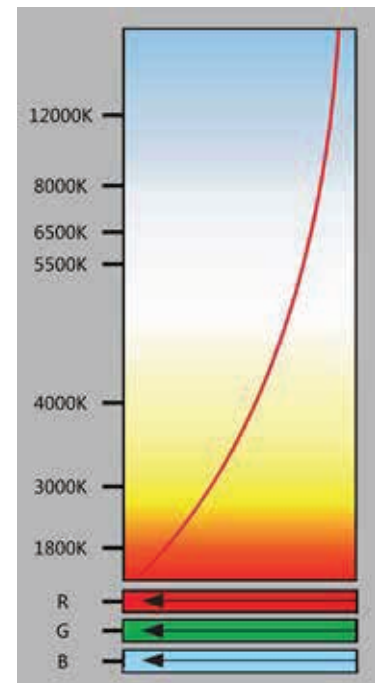6. Full color range with RGB controller

Bending diameter:

Min=30[1.18]

Light Surface

Light Surface

Unit:mm

W=10[0.39]

H=17[0.67]

Base

Easy Installation

By Aluminum profile or plastic clip

5 Year Warranty

UL LISTED

CORRELATED COLOR TEMPERATURE (CCT)

12000K
8000K
6500K
5500K
4000K
3000K
1800K

R
G
B

LED NEON ROPE LIGHT

Specifications

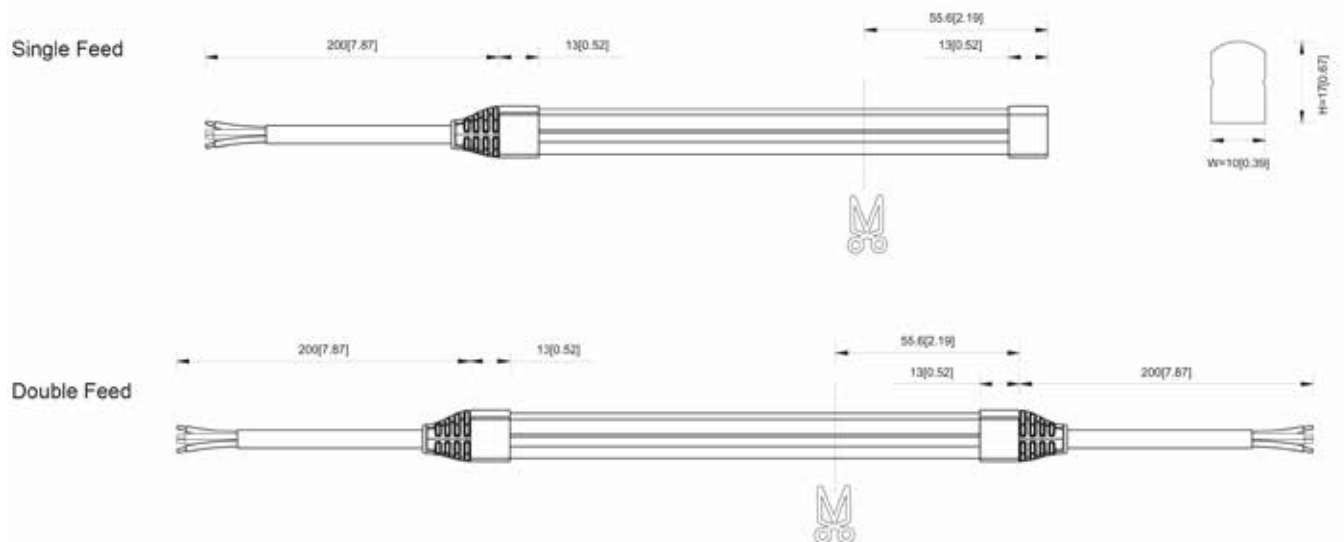| Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Luminous Flux (Lm/m)	Efficacy (lm/W)	Current (A/m)	Voltage (DC V)	Power (W/m)
BLT-RGB-O-24V	R	620-625	120°	56	12.8	0.19	24	4.6
	G	520-525		137	21.1	0.261		6.3
	B	465-470		27	4.0	0.269		6.3
	RGB	100000		134	7.9	0.269		17.3

Parameters

Model No.	Quantity (pcs/m)	Standard Series Connection (m)	Max Run Single ended (m)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
BLT-RGB-O-24V	108	5	4	55.6	-20~+60°C	-20~+70°C

NOTE:
1. Luminous flux、 power tolerance within ±10%.
2. The RGB data here is tested with three lights on and under control.
3. Standard series connection is packaging lenght.
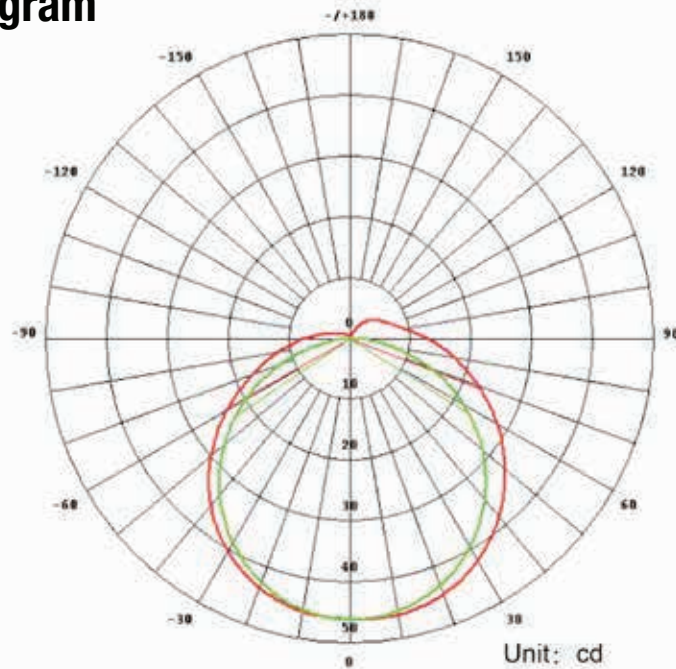4. Max run is related to the working current. the larger the current, the shorter the length.
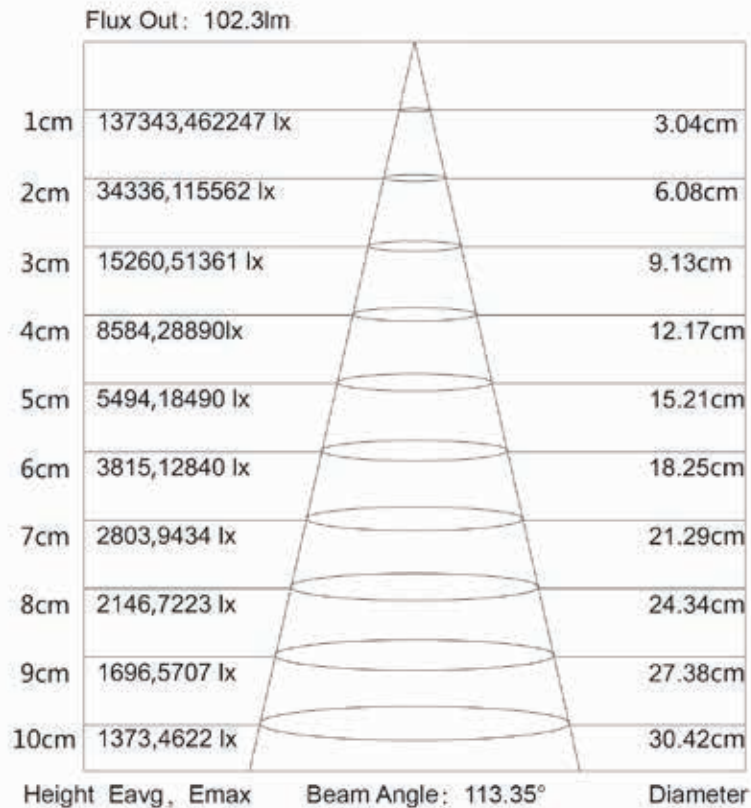
Dimensions

LED NEON ROPE LIGHT

Distribution Diagram

Unit: cd

AVERAGE BEAM ANGLE(50%): 121.5°

— C0 /180,129.4°
— C90/270,,113.7°

Flux Out: 102.3lm

Height	Eavg, Emax	Beam Angle: 113.35°	Diameter
1cm	137343,462247 lx		3.04cm
2cm	34336,115562 lx		6.08cm
3cm	15260,51361 lx		9.13cm
4cm	8584,28890lx		12.17cm
5cm	5494,18490 lx		15.21cm
6cm	3815,12840 lx		18.25cm
7cm	2803,9434 lx		21.29cm
8cm	2146,7223 lx		24.34cm
9cm	1696,5707 lx		27.38cm
10cm	1373,4622 lx		30.42cm

Note:The above data here is tested at R、G、B three lights on and under control.

LED NEON ROPE LIGHT
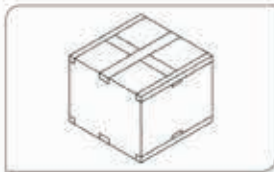
Packing

Label the reel;

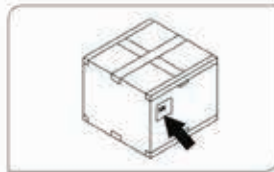Put reel, accessory bag and desiccant together into aluminium foil bag;

Seal and label the aluminium foil bag;

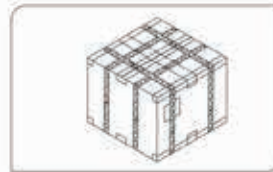
Put the packed aluminium foil bag into carton box;

Seal the carton box;

Label the box;

Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
BLT-RGB-O-24V	5000X17X10	390X390X325	5	12	10.8(1±10%)	15.5(1±10%)

Note:
Five meters for a reel and packed in a aluminium foil bag.

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

Installation

1.Tools

Cutter

LED power supply

Electric batch

Brush

LED NEON ROPE LIGHT

Installation

2.Product accessories

End cap with hole(FREE)
Quantity(5 m): 10pcs
Quantity(10m): 20pcs

End cap without(FREE)
Quantity(5 m): 3pcs
Quantity(10m): 6pcs

Plastic mounting clip(FREE)
Quantity(5 m): 10pcs
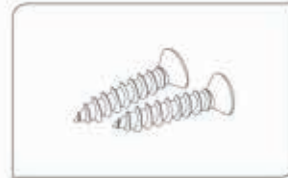Quantity(10m): 20pcs

Metal mounting clip (optional)
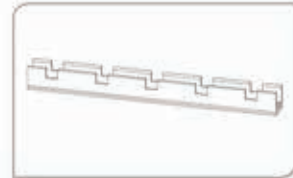Quantity(5 m): 10pcs
Quantity(10m): 20pcs

Aluminum profile(optional)
Quantity(5 m): 10pcs
Quantity(10m): 20pcs

Silicone glue (FREE)
Quantity(5 m): 1pcs
Quantity(10m): 2pcs

Screw (FREE)
Quantity(5 m): 10pcs
Quantity(10m): 20pcs

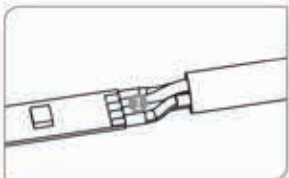Installation aluminum profile
(1m, Optional)

Note:
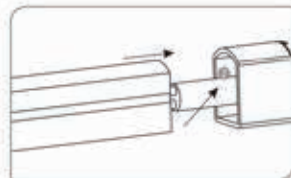more accessories can be provided according to customer requirements
All accessories will be different depending on the product, please correspond the accessory list to the product or reference purchase code.
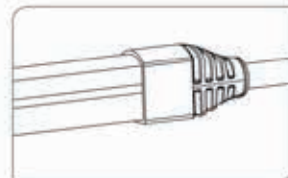
3.Installation steps

By self adhesive tape

Weld the wire to the PCB board

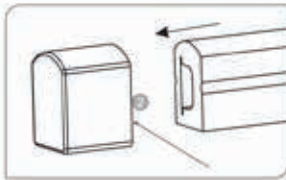First put waterproof glue inside of the plug, then push into the tape light

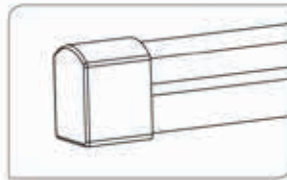Wipe off the excess glue and wait for the glue to solidify.

LED NEON ROPE LIGHT

Installation

Install with clips

First put waterproof glue inside of the plug, then push into the tape light
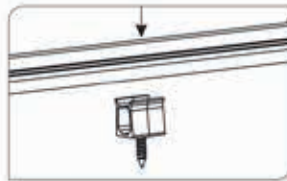
Wipe off the excess glue and wait for the glue to solidify.

4. Operation details of installation card
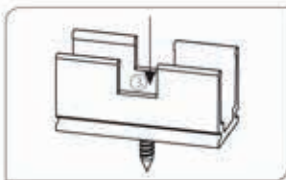
Screw the clip into the installation position
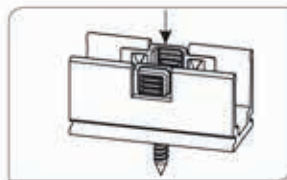
Then slowly press the tape light into the clip

The tape light is flatly and firmly stuck in the clip

5. Installation of Aluminum Track

Screw Aluminum track to the mounting surface

Put the grip plate into the groove of Aluminum track

Make strip light flatly and firmly stuck in the grip plate

6. Installation of Aluminum Track(1m)

Screw Aluminum track to the mounting surface

Put the grip plate into the groove of Aluminum track

Make strip light flatly and firmly stuck in the grip plate

LED NEON ROPE LIGHT

Installation

Note:
1. At welding part, note the positive and negative poles of lines and board and the corresponding colors on the board; positive to positive and negative to negative
2. Each connection point must use 10g silica gel, and treat waterproof and insulation well;
3. The screw of installation card must perpendicular to installation surface and be fastened, as shown in the right.

Important Notices
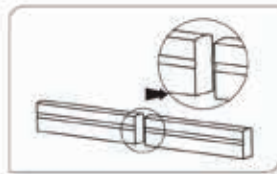
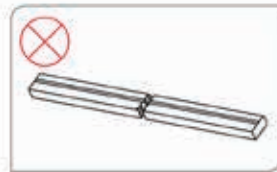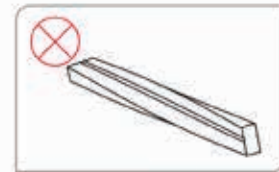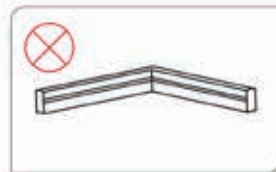|			
Cuttable mark	Neat and smooth cut	Slide a spindle into the roll and then place the roll with spindle on top of the box provided.	Correct usage of products
Gently unroll the fixture without excessive force.	No cutting distort	No embossing operation	Do not twist
Do not repeatedly bending This will damage the circuit	Do not wring	Do not bend 90°	No recessing operation
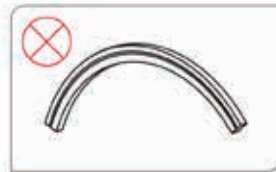
Note:
Cutting marks are on the PCB and can be seen through the tape light.
The above diagram only shows the correct or wrong way of operation. The product should be based on the actual product.

LED NEON ROPE LIGHT

Important Notices

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specificationsor product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have insulation,waterproof and anti-corrosive treatment.

Trouble Shooting

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

⚠ Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm2 cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

LED NEON ROPE LIGHT

Notices & Recycling

Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
The parameters given in this manual are typical values and for reference only.
All illustrations and drawings in this manual are for reference.
This product is subject to change without notice.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Application

Ideal for decorative and landscape illumination.