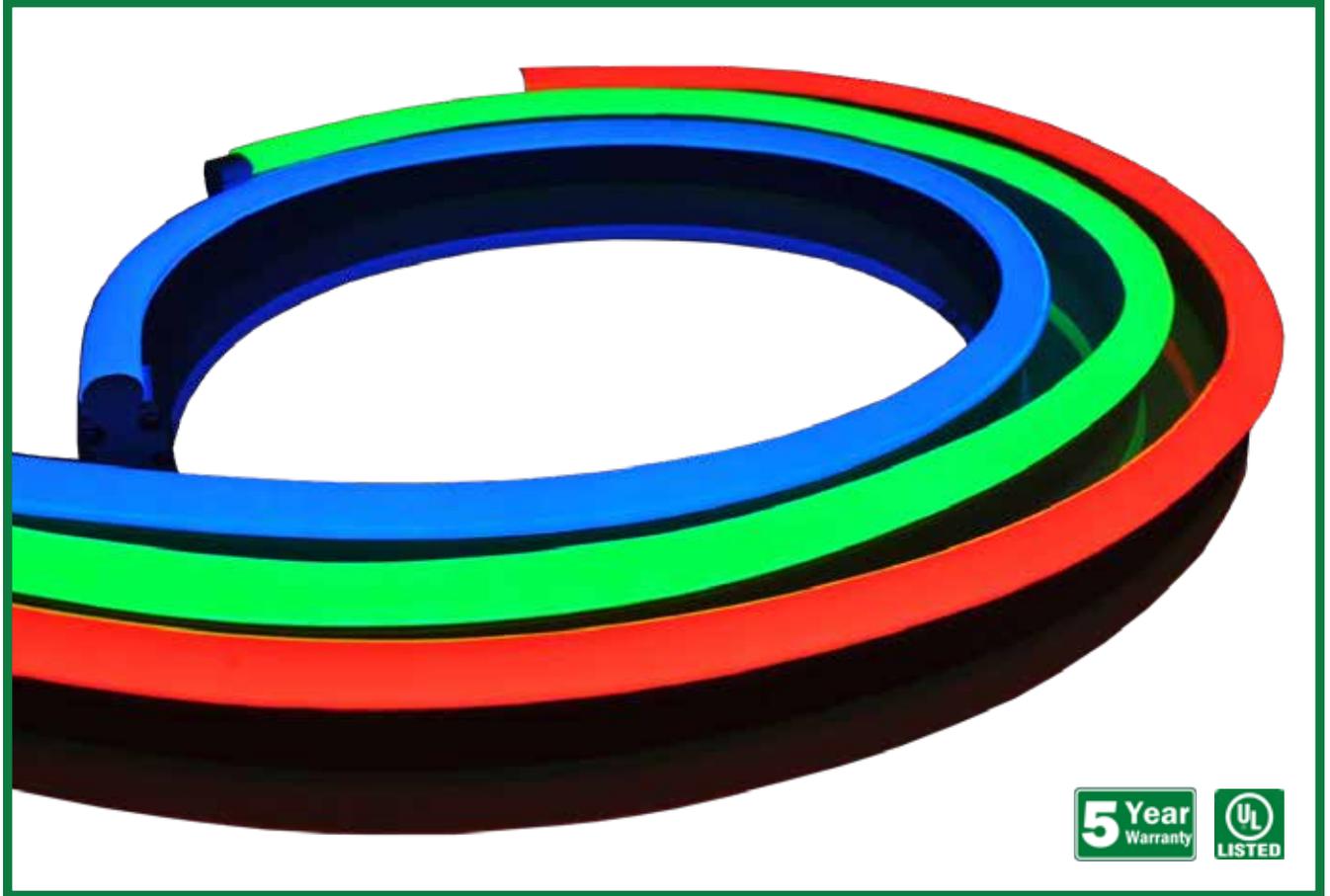




# Neon Rope Lights

## NE Series



### Signage Lighting

Beyond LED's NE Series LED Neon rope light is the highest quality rope in the market. NE 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. NE 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

# Neon Rope Lights

## NE Series

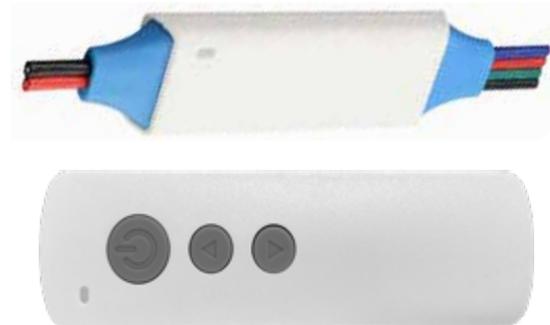
### S Type Neon Rope

SKU #	Model #	Watts	Color	Length	Type	Lifespan	Input Voltage	Certifications
110189	N23A-W	9.6 W/M	White	49ft Roll	S Type	50,000 Hrs	24VDC	UL
110197	N23A-R	9.6 W/M	Red	49ft Roll	S Type	50,000 Hrs	24VDC	UL
110205	N23A-G	9.6 W/M	Green	49ft Roll	S Type	50,000 Hrs	24VDC	UL
110213	N23A-B	9.6 W/M	Blue	49ft Roll	S Type	50,000 Hrs	24VDC	UL
110221	N23A-Y	9.6 W/M	Yellow	49ft Roll	S Type	50,000 Hrs	24VDC	UL
151175	BLT-RGB-0-24V	17.3 W/M	RGB	49ft Roll	S Type	50,000 Hrs	24VDC	UL
110288	S TYPE Mounting Clip							
110304	S TYPE - Aluminum Strip / Profile							

### D Type Neon Rope

SKU #	Model #	Watts	Color	Length	Type	Lifespan	Input Voltage	Certifications
151440	BLT-RGB-0-24V	17.3 W/M	RGB	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110239	BLT-CCFG-0-24V-W	7.7 W/M	White	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110247	BLT-CCFG-0-24V-R	7.7 W/M	Red	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110254	BLT-CCFG-0-24V-G	7.7 W/M	Green	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110262	BLT-CCFG-0-24V-B	7.7 W/M	Blue	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110270	BLT-CCFG-0-24V-Y	7.7 W/M	Yellow	49ft Roll	D Type	50,000 Hrs	24VDC	UL
110296	D TYPE Mounting Clip							
110403	D TYPE - Aluminum Strip / Profile							

**Optional Wireless Bluetooth Controller  
for RGB LED Neon Rope Lights  
- SKU: 101717**





# Neon Rope Lights

## NE Series S Type Single Color



### Features

- Flexible and cuttable modules marked at every 1.97in [50mm] for design freedom.
- Mounting clip accessories and optional 4' aluminum profile are available to increase the versatility of the system.
- Dot-free linear neon illumination.
- Fabricated with Eco-friendly, UV-resistant silicone material.

### Input Voltage

- 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.

### Recommended Use

- Around Signage
- Store Windows / Building Crown
- Decor Lighting / Around Bar Table / Under Counter / Around Ceiling
- Along Walkways

# Neon Rope Lights

## NE Series S Type Single Color

LED Neon Rope Lights - S Type					
SKU #	110189	110197	110205	110213	110221
MODEL #	BLT-CCFG-0-24V-W	BLT-CCFG-0-24V-R	BLT-CCFG-0-24V-G	BLT-CCFG-0-24V-B	BLT-CCFG-0-24V-Y
CONSUMPTION	2.93W/Foot	2.93W/Foot	2.93W/Foot	2.93W/Foot	2.93W/Foot
COLOR	White	Red	Green	Blue	Yellow

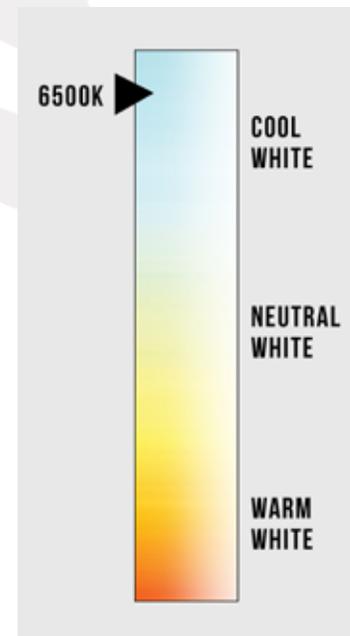
### Specifications

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)



### Others

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

### Warranty & Qualification

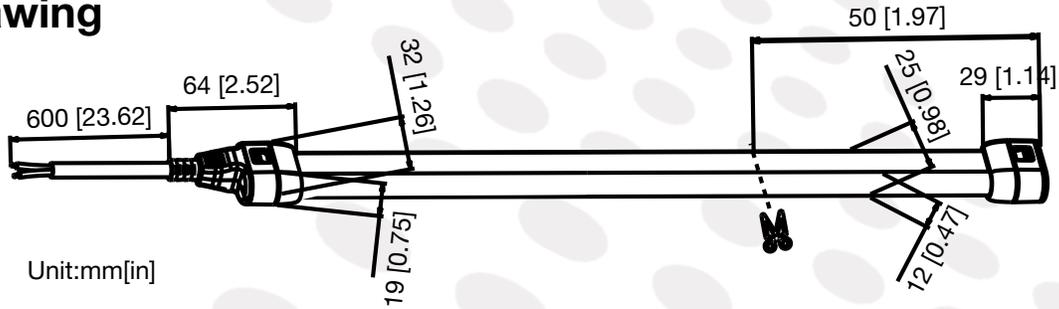
WARRANTY	UL LISTED
5 Year Limited	Yes



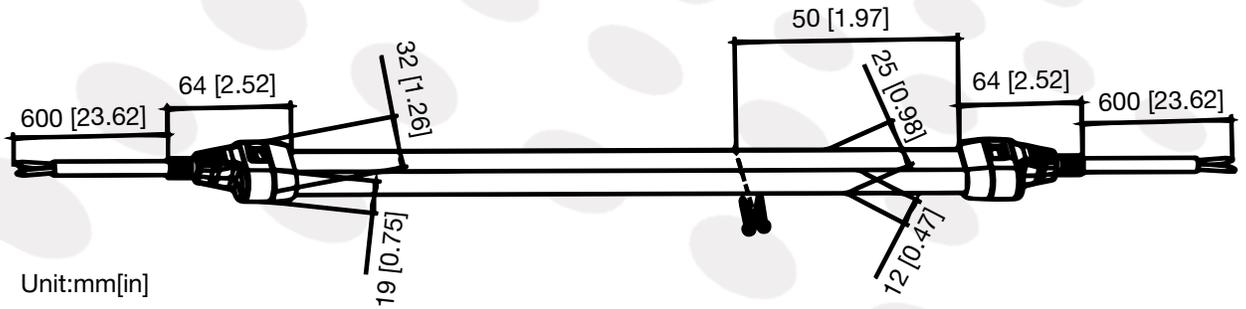
# Neon Rope Lights

## NE Series S Type Single Color

### Drawing

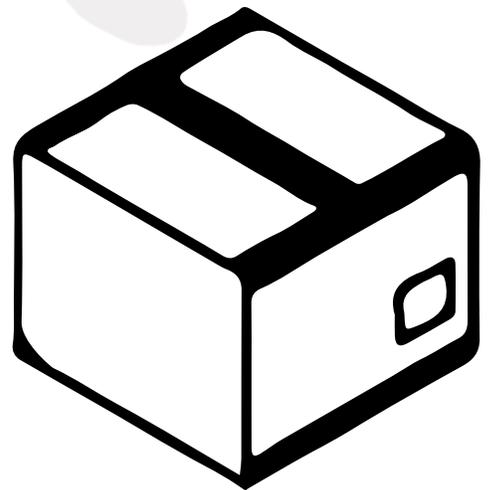
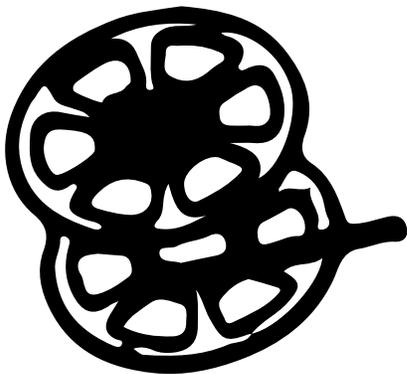


Unit:mm[in]



Unit:mm[in]

BOX TYPE	SIZE	QTY / CARTON	WEIGHT / CARTON
Single Box	15" x 14.75" x 8"	1	13 lbs

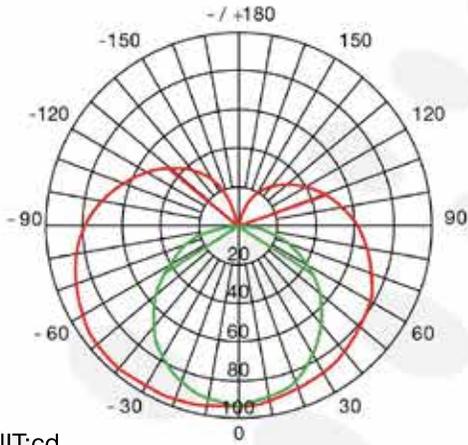


# Neon Rope Lights

## NE Series S Type Single Color

### Light Distribution Testing Parameters

AVERAGE BEAM ANGLE(50%): 175.2°



UNIT:cd

— C0/180, 237.5

— C90/270, 112.8



#### Available Colors For S-Type Neon Rope Lights

White

Red

Green

Blue

Yellow



### Optional Accessories

Aluminum Profile





# Neon Rope Lights

## NE Series D Type Single Color



### Features

- Minimum bending in 1.18in[30mm], various styles.
- Maximum run length in 98.43ft[30m].
- Mounting clip accessories and optional 4' aluminum profile are available to increase the versatility of the system.
- Dot-free linear neon illumination.
- Fabricated with Eco-friendly, UV-resistant silicone material.

### Input Voltage

- 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.

### Recommended Use

- Around Signage
- Store Windows / Building Crown
- Decor Lighting / Around Bar Table / Under Counter / Around Ceiling
- Along Walkways

# Neon Rope Lights

## NE Series D Type Single Color

LED Neon Rope Lights - D Type					
SKU #	110239	110247	110254	110262	110270
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

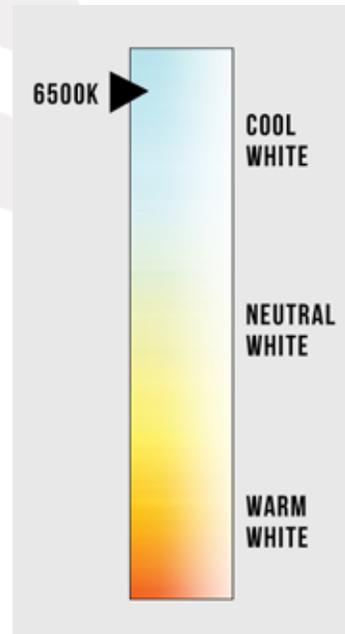
### Specifications

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

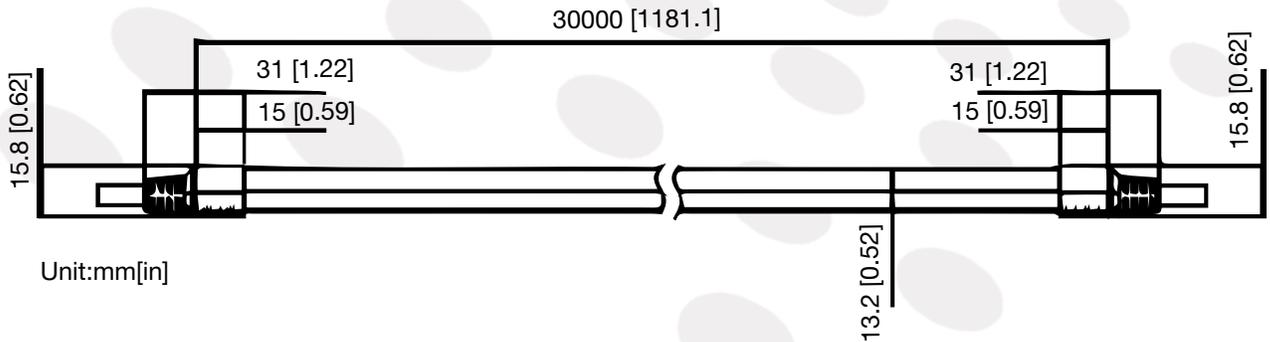
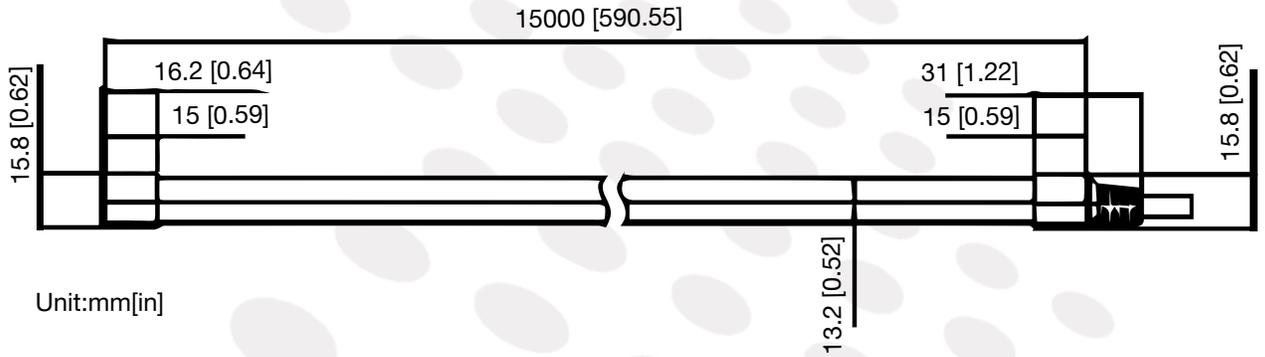
WARRANTY	UL LISTED
5 Year Limited	Yes



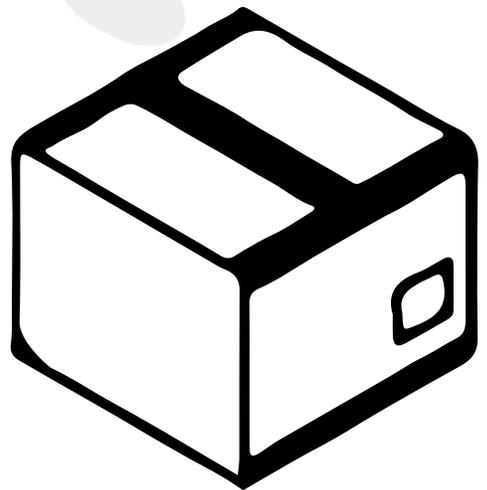
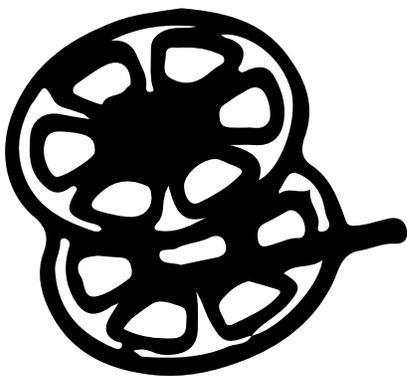
# Neon Rope Lights

## NE Series D Type Single Color

### Drawing



BOX TYPE	SIZE	QTY / CARTON	WEIGHT / CARTON
Single Box	15" x 15" x 8.25"	1	14 lbs

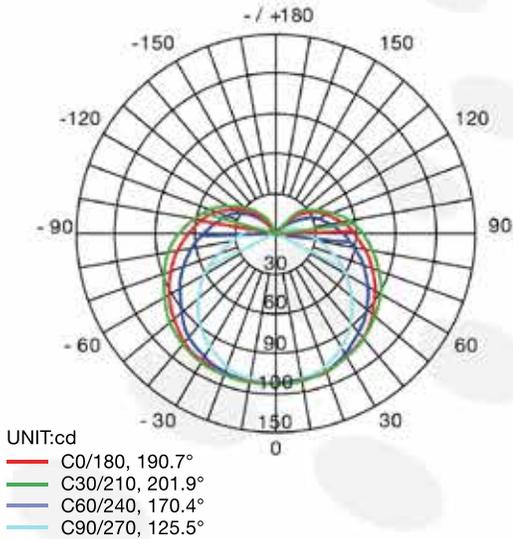


# Neon Rope Lights

## NE Series D Type Single Color

### Light Distribution Testing Parameters

**AVERAGE BEAM ANGLE(50%): 172.1°**



#### Available Colors For S-Type Neon Rope Lights

White

Red

Green

Blue

Yellow



### Optional Accessories

Aluminum Profile





# Neon Rope Lights

## NE Series RGB Color



### RGB Color Signage Lighting

Beyond LED's NE Series LED Neon rope light is the highest quality rope in the market. NE 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. NE 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."

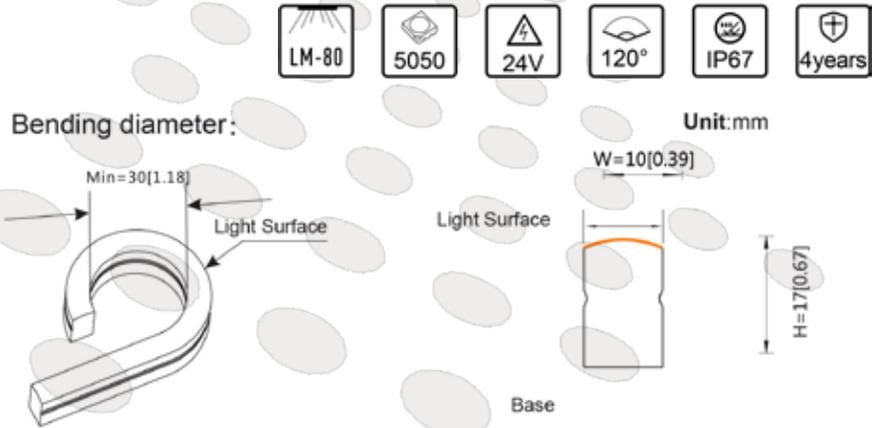
- Flexible and cuttable modules marked for design freedom
- Optional aluminum profile & clips are available
- Dot-free linear neon illumination
- Fabricated with UV-resistant silicone material

# Neon Rope Lights

## NE Series RGB Color

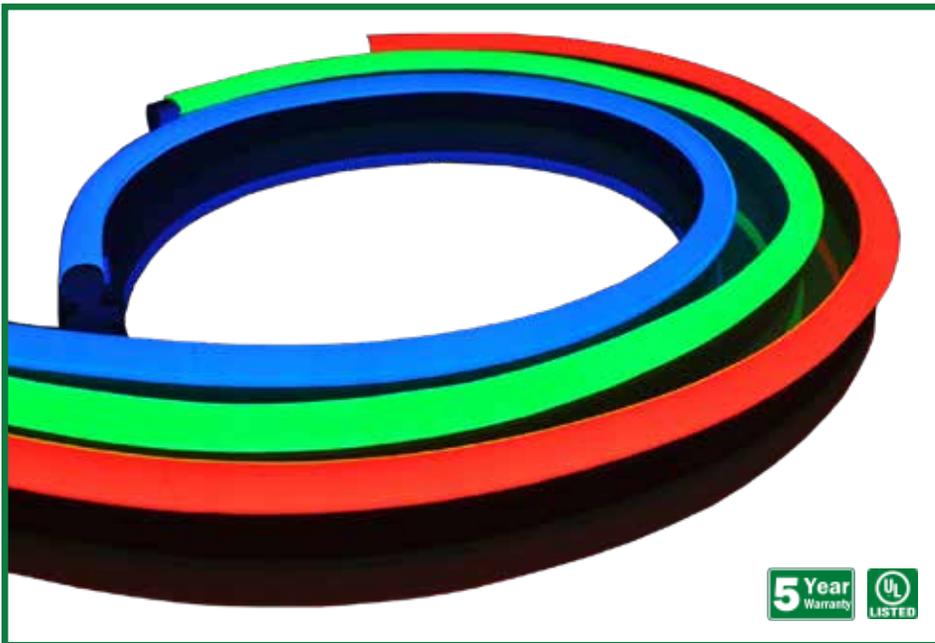
### Features

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

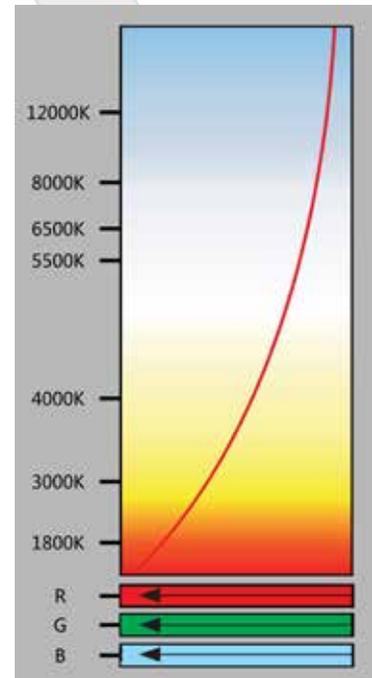


### Easy Installation

By Aluminum profile or plastic clip



### CORRELATED COLOR TEMPERATURE (CCT)





# Neon Rope Lights

## NE Series RGB Color

### 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-0-24V	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

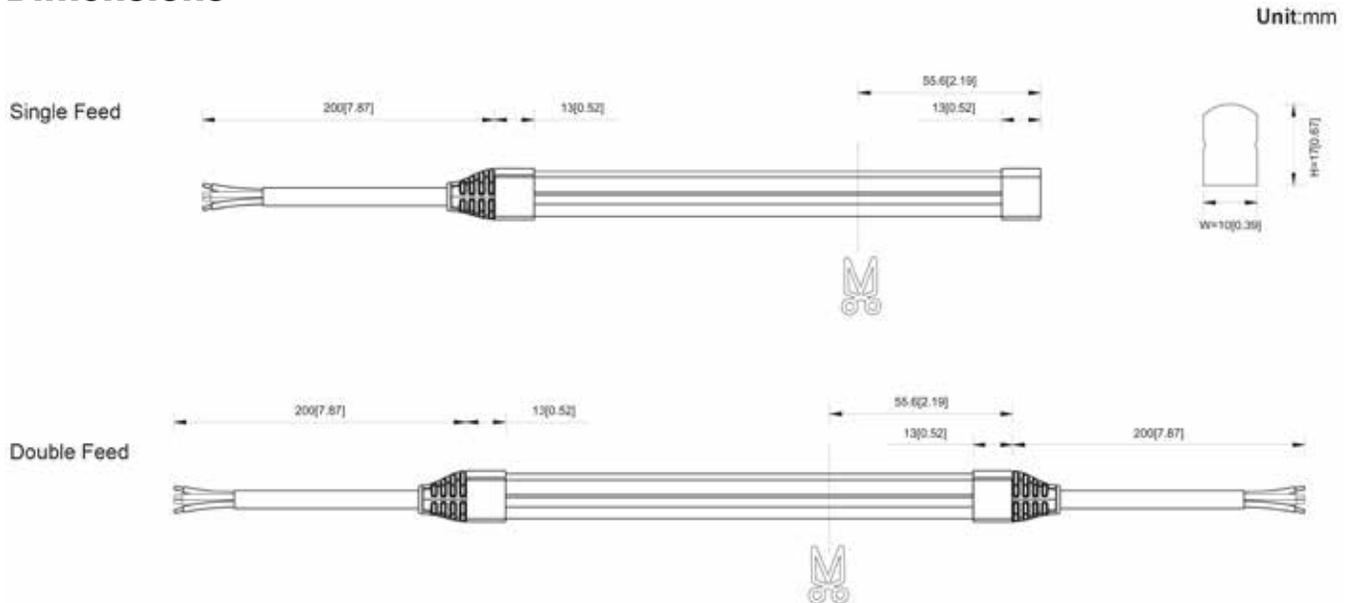
### Parameters

Model No.	Quantity (pcs/m)	Standard Series Connection (m)	Max Run Single ended (m)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
BLT-RGB-0-24V	108	5	4	55.6	-20~+60°C	-20~+70°C

**NOTE:**

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

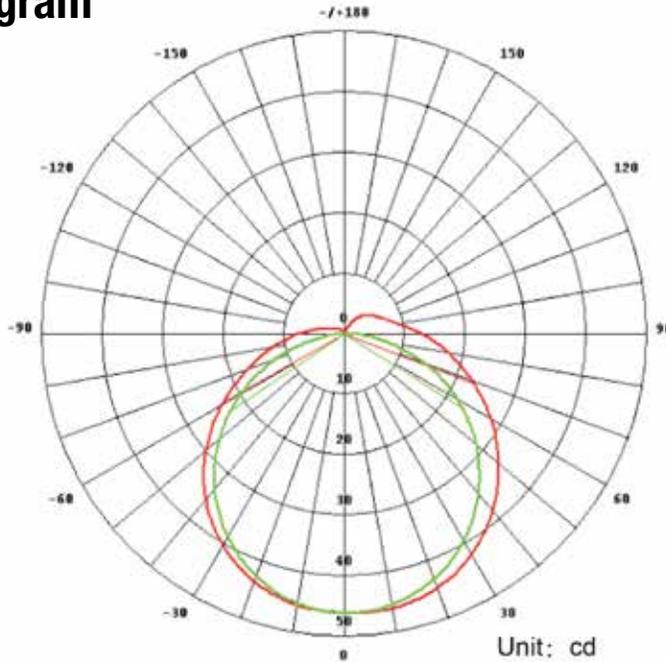
### Dimensions



# Neon Rope Lights

## NE Series RGB Color

### Distribution Diagram



— C0 / 180, 129.4°  
 — C90 / 270, 113.7°  
 AVERAGE BEAM ANGLE(50%): 121.5°

Flux Out: 102.3lm

Height	Emax	Beam Angle	Diameter
1cm	137343,462247 lx	113.35°	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.

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Due to continuous product improvement, information in this document is subject to change.

# Neon Rope Lights

## NE Series RGB Color

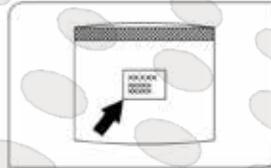
### Packing



Label the reel;



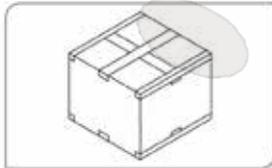
Put reel, accessory bag and desiccant together into aluminium foil bag;



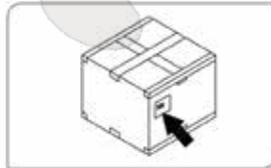
Seal and label the aluminium foil bag;



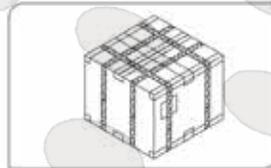
Put the packed aluminium foil bag into carton box;



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-0-24V	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.

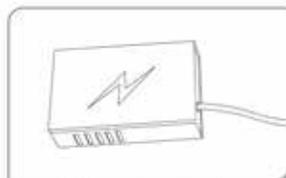
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

### Installation

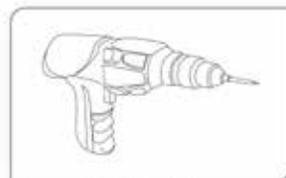
#### 1.Tools



Cutter



LED power supply



Electric batch



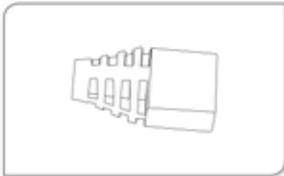
Brush

# Neon Rope Lights

## NE Series RGB Color

### Installation

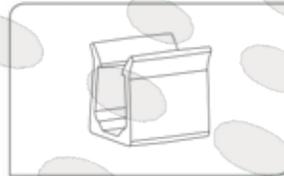
#### 2.Product accessories



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



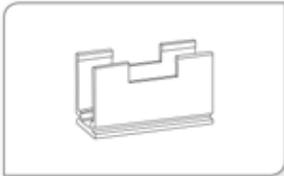
End cap without(FREE)  
Quantity(5 m): 3pcs  
Quantity(10m): 6pcs



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



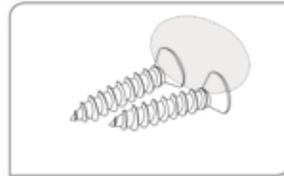
Metal mounting clip (optional)  
Quantity(5 m): 10pcs  
Quantity(10m): 20pcs



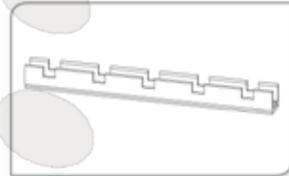
Aluminum profile(optional)  
Quantity(5 m): 10pcs  
Quantity(10m): 20pcs



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



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



Installation aluminum profile  
(1m, Optional)

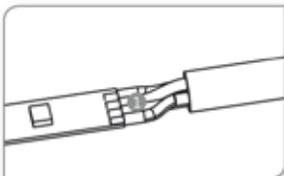
**Note:**

more accessories can be provided according to customer requirements

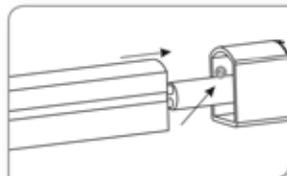
All accessories will be different depending on the product, please correspond the accessory list to the product or reference purchase code.

#### 3.Installation steps

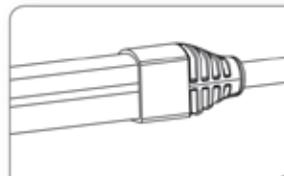
By self adhesive tape



Weld the wire to the PCB board



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



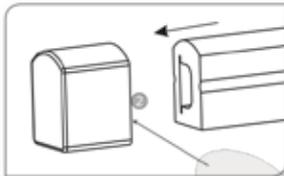
Wipe off the excess glue and wait for the glue to solidify.

# Neon Rope Lights

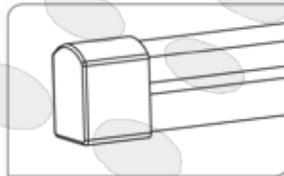
## NE Series RGB Color

### Installation

Install with clips



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

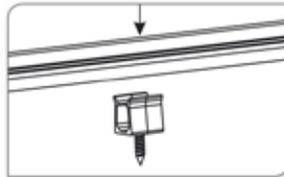


Wipe off the excess glue and wait for the glue to solidify.

#### 4. Operation details of installation card



Screw the clip into the installation position

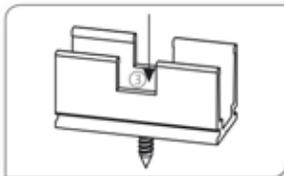


Then slowly press the tape light into the clip

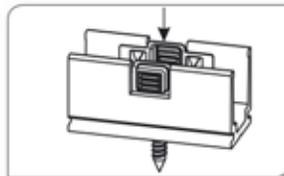


The tape light is flatly and firmly stuck in the clip

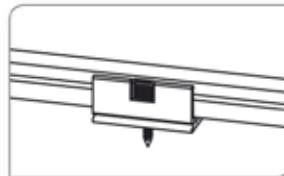
#### 5. Installation of Aluminum Track



Screw Aluminum track to the mounting surface

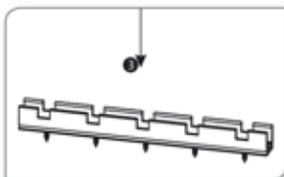


Put the grip plate into the groove of Aluminum track



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

# Neon Rope Lights

## NE Series RGB Color

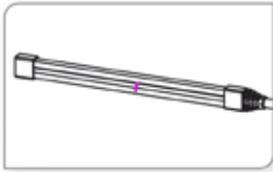
### Installation

**Note:**

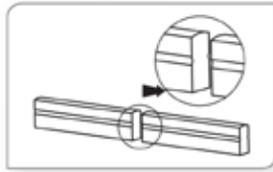
1. At welding part, note the positive and negative poles of lines and board and the corresponding colors on the board; positive to positive and negative to negative
2. Each connection point must use 10g silica gel, and treat waterproof and insulation well;
3. The screw of installation card must perpendicular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



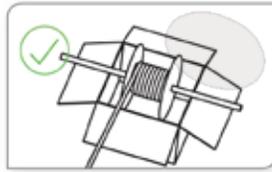
### Important Notices



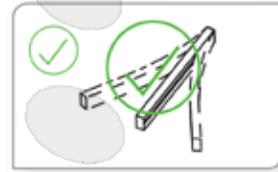
Cutable mark



Neat and smooth cut



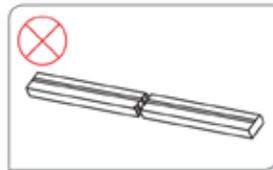
Slide a spindle into the roll and then place the roll with spindle on top of the box provided.



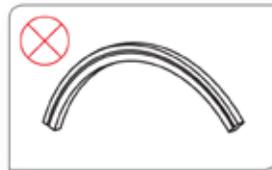
Correct usage of products



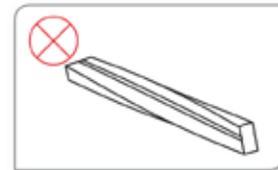
Gently unroll the fixture without excessive force.



No cutting distort



No embossing operation



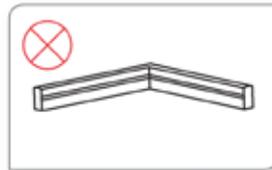
Do not twist



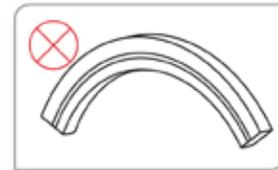
Do not repeatedly bending This will damage the circuit



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.

# Neon Rope Lights

## NE Series RGB Color

### Important Notices

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or 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 or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ 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 (0.75mm<sup>2</sup> 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.

# Neon Rope Lights

## NE Series RGB Color

### 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.

