Product specification

R-2810-X120-2

2835 IP67 waterproof flexible light strip

standard

non-waterproof flexible light strip

2835



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.



Application: Suitable for linear decoration in shopping malls, hotels, entertainment clubs and other places

16000K

12000K

8000K

6500K

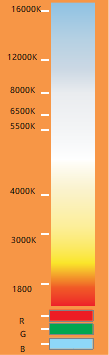
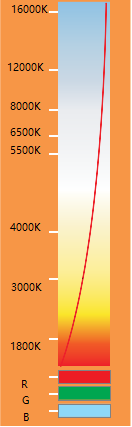
5500K

4000K

3000K

1800K R

G B



LM-80

24V

120°LM-80



IP67

Product Features Installation method

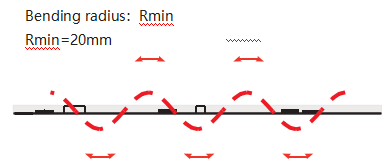
◇2835 LED as light source, dazzling colors and good effect, IP65 silicone potted glue for exterior

◇Adopt double-sided copper flexible FPC, with large bending angle and convenient installation

◇Original imported 3M adhesive, easy to mount, stable and firm

◇Silicon extrusion Waterproof IP67 suit for exterior

Fix with 3M glue



Rmin=20mm

# Optical parameters

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | Color | CCT/ wavelength  (K/nm) | Beam angle(°) | Ra | Typical luminous flux(lm/m) | Light efficiency (lm/W) | Voltage(DCV) | Power(W/m) \* |
| R-2810-X120-2 | white | 2700-6500K | 120 | 80+ | 2000 | 100 | 24 | 20 |

Temperature-related parameters (normal work)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Power（W) | End to end infinite difference MAX(m) | Cascade length  (m) \* | TA(℃) | Operating temperature MAXTc(℃) |
| R-2810-X120-2 | 20 | 3.5 | 5 | -20~+60 | 105 |

Other parameters

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Points (points/m) | Min. cutting length(mm)\* | Storage temperature(℃) |
| R-2810-X120-2 | 120 | 50 | -20~+70 |

Remarks:

①The test environment temperature is 25±2℃

②The above data is a typical value, the actual parameters of the product may be different from the typical data, the data is subject to change without notice

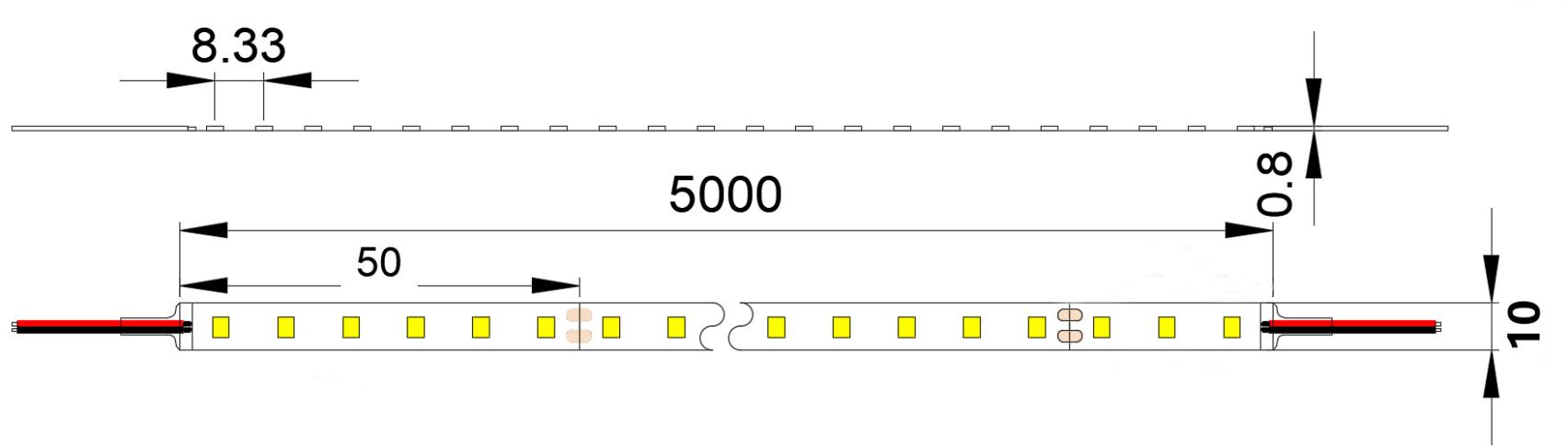
③The above luminous flux is in accordance with the parameters tested when the corresponding color is lit

④If you choose leds with different bin, the color temperature (wavelength) will be different, and the light parameters will have a certain fluctuation.

The power error is ±10%. The maximum cascade length refers to the maximum cascade length for single-ended power supply. UL cascade length means the working length

under UL class II @100W.24V. For cutting position, please see the structure diagram

# Sample Size

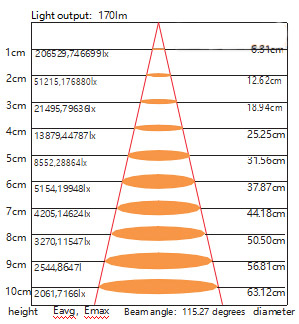


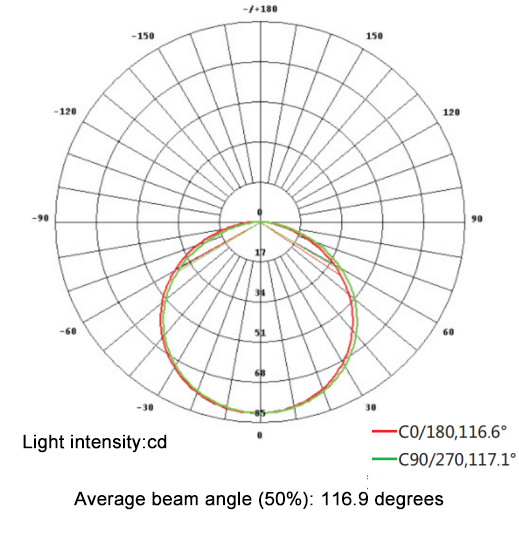
Remarks: If you need detailed dimensions, please contact the sales staff.

# **Light distribution curve Effective average illuminance**

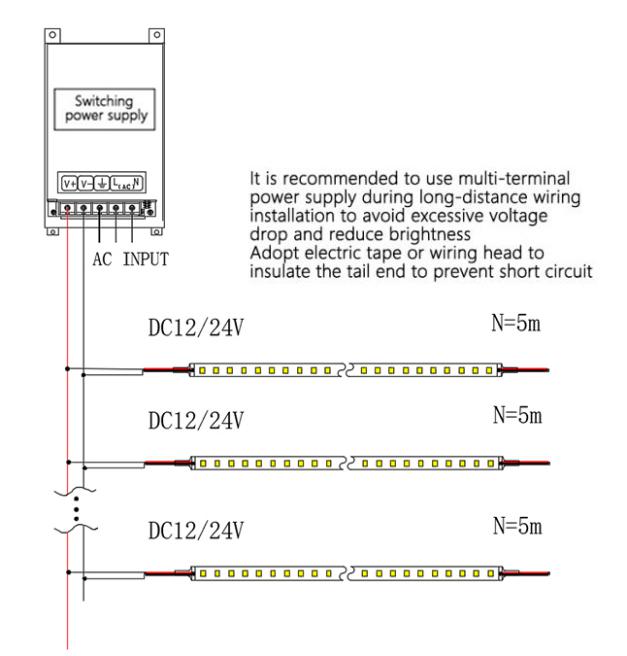
R-2810-X120- 2

R-2810-X120-2



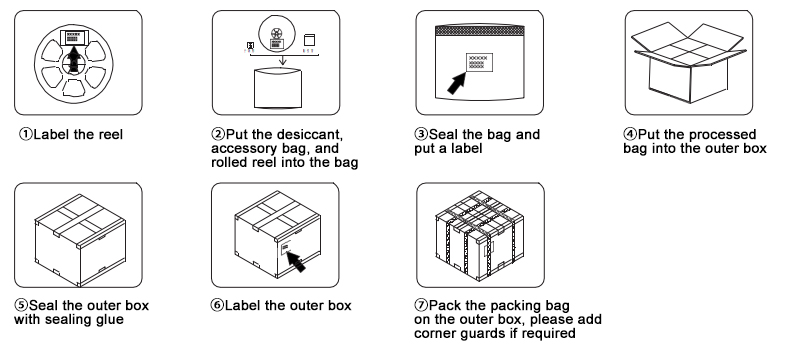


Remarks: The above picture, if you need other data, please contact the sales staf



**Connection diagram**

# **Packaging**



# **Package instruction**

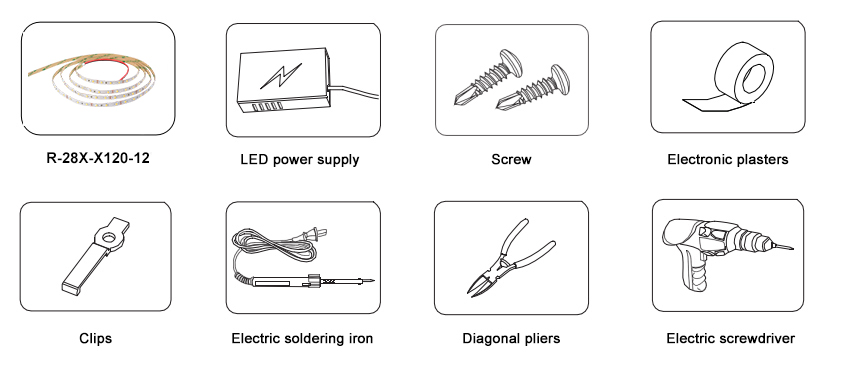
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Type of trade | Model | Product Size L\*W(mm) | Carton size (mm) | m/reel | reel/ctn | Net weight (kg) | Gross weight (kg) |
| foreign trade | R-2810-X120-2 | 5000\*8 | 500\*270\*230 | 5 | 100 | 12.60 | 13.00 |

1. Each (5M) roll of this product contains one reel, and each reel is packed in an aluminum foil bag.

2. The above packaging quantity and weight are only for the illustrated packaging method. When it is other packaging method, the packaging quantity and weight will be different. The above weight is an estimated weight and the actual product shall prevail.

# **Installation**

**Ⅰ. Schematic diagram of product and required tools**



**Ⅱ. Installation method and steps**

# 安装方式及步骤(英文)

**Ⅲ.Installation precautions and others**

##### ●Before installation, please check whether the product parameters are consistent with the requirements. The voltage, current,

##### and power of the power supply and load used must be consistent with the product. Please connect correctly according

##### to the wiring diagram (first connect the load and then the power supply, or power supply), and avoid short circuits during the

##### operation. The positive and negative poles of the product lead and the positive and negative poles of the power output

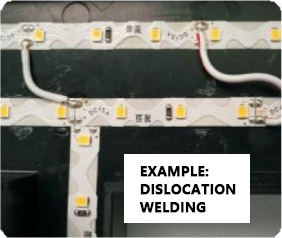
##### terminal must be correctly connected, otherwise the light will not turn on. Whether the power cord is screwed into the terminal

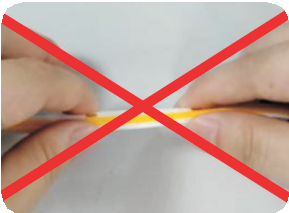
##### is firm, it is advisable to not pull it out with bare hands. Terminals must be effectively waterproof and anti-corrosion treatment.

●For straight non-waterproof flexible strips, if the maximum cascading length is exceeded, dislocation compensation

must be performed. For straight non-waterproof flexible strips, if the single led exceeds the regular current use,

please add auxiliary heat dissipation





●The bending diameter at any position must be greater than 1CM

●It is strictly forbidden to twist the light strip products in a short distance. When using, ensure that the minimum twisting distance is greater than the cutting distance of a single group (62.5mm), and the maximum twist angle of

a single light strip (0.5m) is 720°.

**Ⅳ.Common product faults and troubleshooting methods**

|  |  |  |
| --- | --- | --- |
| Product simple fault quick reference table | | |
| Failure phenomenon | Possible reason | Solution |
| All LEDs are off | 1. The mains is not supplied | Power transmission |
| 2. Open circuit or short circuit at the output terminal of the power supply, causing automatic power protection | Troubleshoot and re-power |
| 3. The polarity of the product power supply terminal is reversed |
| Part of the LED does not light up | 1. Part of the power supply is not powered | Check the power supply system and troubleshoot |
| 2. Errors in the power supply circuit of some products |
| 3. Reverse polarity of individual products | Correct wiring |
| LED brightness is uneven or not bright enough | 1. Power overload | Increase power load |
| 2. Excessive loss of power output | Ensure that the product's operating voltage error is within ±5% of the standard voltage, or maintain the average loss of each branch of the circuit |
| 3. Too many products in series | Adjust the product quantity of each power supply branch, and each branch cannot exceed the maximum cascade number or cascade length requirement |
| LED blinking | 1. Poor contact of the connection point | Find the point of failure and troubleshoot |
| 2. Power failure | Ensure that the product working voltage error is within the standard voltage |
| 3. Product not used as required | Make sure to use the product in accordance with the product instructions |

Warning:

※It is strictly forbidden to disassemble or modify this strip, and the surface of the led is prohibited from touching with sharp objects.

※It is strictly forbidden to work with electricity during the installation process, and it is strictly prohibited to use chemical products.

※When using neutral glass glue to fix the product, the glue must be cured for more than 4 hours in a spacious and ventilated environment, and then sealed.

※During the installation process, please do the insulation, waterproof and anti-corrosion treatment at the end of the main line that is not connected to the main line and the connection points of each branch as required. If you need to lengthen the power supply end power line, you must select 16AWG as required (the cross-sectional area of the wire is 1 square millimeter) or thicker wire core wire, so as to avoid over-current heating of the wire causing adverse consequences.

※Before supplying power, please confirm whether the power supply voltage meets the requirements and whether the wiring is installed correctly.

※This product is an advertising decorated product. Please do not use it as the main lighting. Super connection or cascade length is strictly prohibited. The electrical connection between the power supply and the product cannot be too long. If there is no special regulation, it is generally 2 meters long, otherwise the line is damaged increased, resulting in inconsistent brightness at the beginning and end of the product.

※Please use professionals for installation, repair and maintenance. Non-professionals are strictly prohibited.

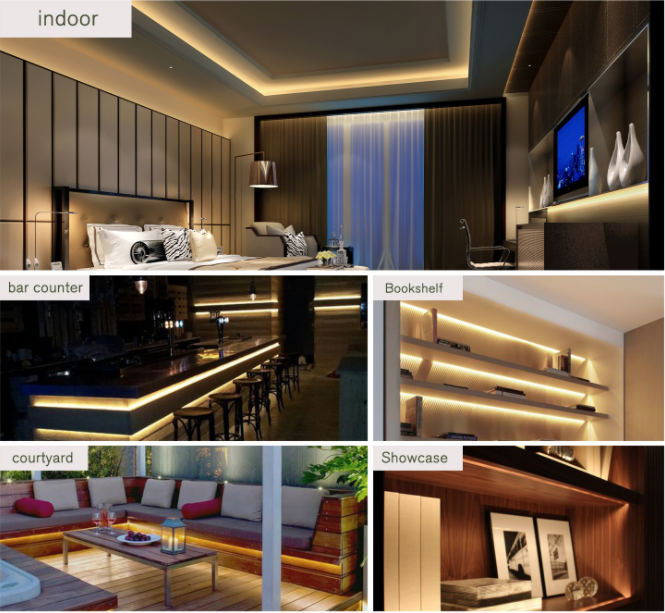
**Ⅴ.Declaration and recycling matters**

Affirmation: If the external line of this product is damaged, it must be replaced by the manufacturer or its service agent or a person with similar qualifications to avoid danger. The technical parameters given in this manual are typical values for reference only. The specific parameters are based on the actual test report shall prevail.

All product illustrations in this manual are schematic diagrams, and the specifics are subject to the actual received products. This product is subject to change without notice.

Recycling matters:

LED lighting products belong to the category of electronic products, please follow the relevant WEEE directives for recycling.



**Ⅵ.Application cases**