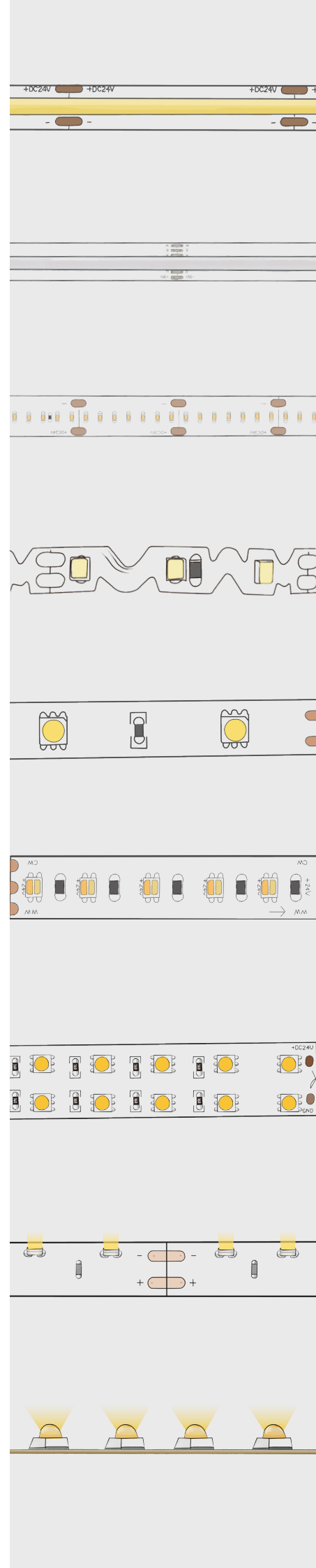
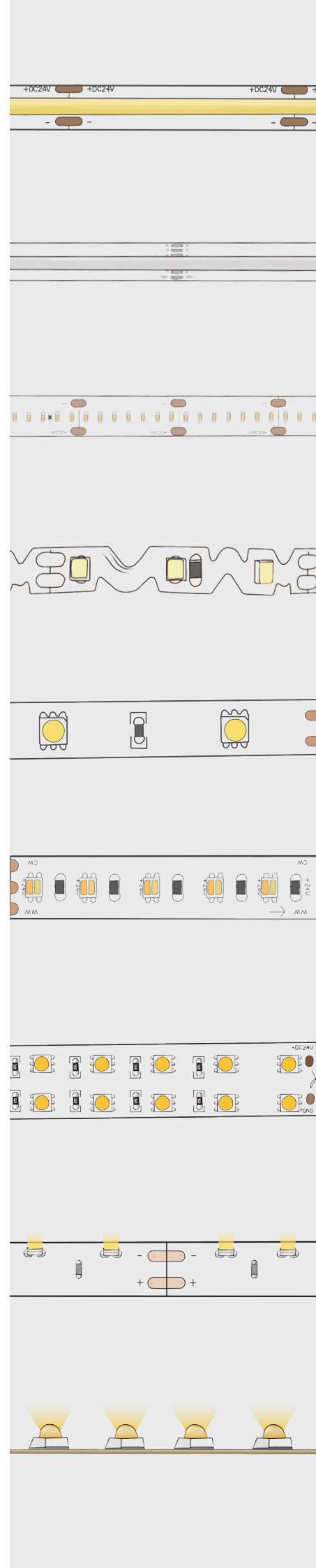




# D25 Neon Strip



Factory: Building 9 & 10, WanYang park ,baoyong industry road No 8 ,  
west area baoyong industry zone, longjiang town, Shunde District, Foshan city.

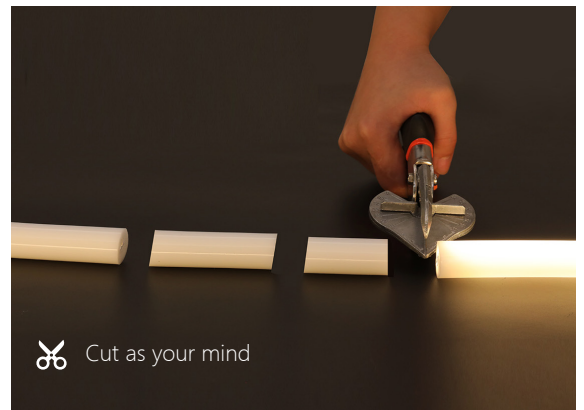
## D25 Neon Strip

- Circular tube profile supports 360° circular luminous surface, uniform luminous area without dark area, suitable for space decorative lighting;
- Free to cut any length can be rigid, flexible, plasticity, bending and pliable;
- IP67 waterproof grade, can be used outdoors, the use of silica gel material, flame retardant, corrosion resistance and UV resistance;
- 50000 hours long life, 5 years warranty, UL and CE certification;
- High transmittance high purity silica gel material, protection grade IP67;
- Support multiple installation methods such as hanging and surface installation.



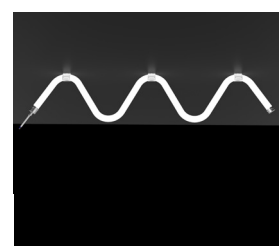
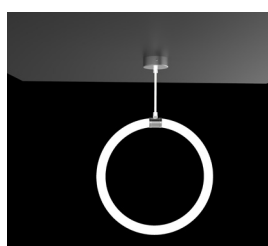
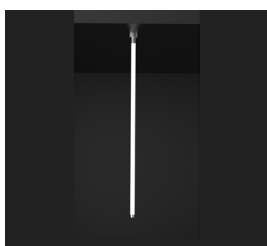
## Application

We have also have CCT & RGB & RGB SPI version for your reference, they especially suit for spatial decoration, Domestic decoration hotel, garden, ceiling, floor stairs ect.



### Accent Lighting: D25 Neon Strip

Can be hoisted at will, with various shapes. Emitting 360 degree, widely use for artistic lighting space to bring more vivid designs.



## General Parameters

| Series                       | Item Code                        | Input voltage | CCT/K                                                                                       | Watt/m | Color Rendering Index | Lm/m | Lm/ft | LM/w | LED Type | Max.run length (SEP) |
|------------------------------|----------------------------------|---------------|---------------------------------------------------------------------------------------------|--------|-----------------------|------|-------|------|----------|----------------------|
| STA Series<br>50mm cut       | MN328V240Q90-D027M6A10106N-RO25Y | 24V           |  2700k     | 20     | 90                    | 1120 | 341   | 56   | 240/M    | 5m                   |
|                              | MN328V240Q90-D030M6A10106N-RO25Y | 24V           |  3000k     | 20     | 90                    | 1180 | 360   | 59   | 240//M   | 5m                   |
|                              | MN328W240Q90-D040M6A10106N-RO25Y | 24V           |  4000k     | 20     | 90                    | 1240 | 378   | 62   | 240//M   | 5m                   |
|                              | MN328W240Q90-D050M6A10106N-RO25Y | 24V           |  5000k     | 20     | 90                    | 1260 | 384   | 63   | 240//M   | 5m                   |
|                              | MN328W240Q90-D065M6A10106N-RO25Y | 24V           |  6500k     | 20     | 90                    | 1300 | 396   | 65   | 240//M   | 5m                   |
| Pro Series<br>6.25mm cut     | MN328V320Q90-D027M6A10101N-RO25Y | 24V           |  2700k     | 20     | 90                    | 1320 | 402   | 66   | 320/M    | 5m                   |
|                              | MN328V320Q90-D030M6A10101N-RO25Y | 24V           |  3000k     | 20     | 90                    | 1400 | 427   | 70   | 320/M    | 5m                   |
|                              | MN328W320Q90-D040M6A10101N-RO25Y | 24V           |  4000k     | 20     | 90                    | 1460 | 445   | 73   | 320/M    | 5m                   |
|                              | MN328W320Q90-D050M6A10101N-RO25Y | 24V           |  5000k     | 20     | 90                    | 1500 | 457   | 75   | 320/M    | 5m                   |
|                              | MN328W320Q90-D065M6A10101N-RO25Y | 24V           |  6500k    | 20     | 90                    | 1540 | 470   | 77   | 320/M    | 5m                   |
| Pro 48V Series<br>6.25mm cut | MN428V320Q90-D027M6A10101N-RO25Y | 48V           |  2700k   | 20     | 90                    | 1320 | 402   | 66   | 320/M    | 10m                  |
|                              | MN428V320Q90-D030M6A10101N-RO25Y | 48V           |  3000k   | 20     | 90                    | 1400 | 427   | 70   | 320/M    | 10m                  |
|                              | MN428W320Q90-D040M6A10101N-RO25Y | 48V           |  4000k   | 20     | 90                    | 1460 | 445   | 73   | 320/M    | 10m                  |
|                              | MN428W320Q90-D050M6A10101N-RO25Y | 48V           |  5000k   | 20     | 90                    | 1500 | 457   | 75   | 320/M    | 10m                  |
|                              | MN428W320Q90-D065M6A10101N-RO25Y | 48V           |  6500k   | 20     | 90                    | 1540 | 470   | 77   | 320/M    | 10m                  |
| CCT                          | MN328U480Q90-D027N6A10106N-RO25Y | 24V           |  CCT     | 20     | 90                    | 820  | 250   | 41   | 480/M    | 5m                   |
| RGB                          | MN344A240Q00-D000O6A12106N-RO25Y | 24V           |  RGB     | 20     | N/A                   | 622  | 194   | 31   | 240/M    | 5m                   |
| RGB SPI<br>10.4mm cut        | MN250A192Q00-D000N6A10101S-RO25Y | 12V           |  RGB SPI | 20     | N/A                   | 328  | 103   | 16   | 192/M    | 5m                   |

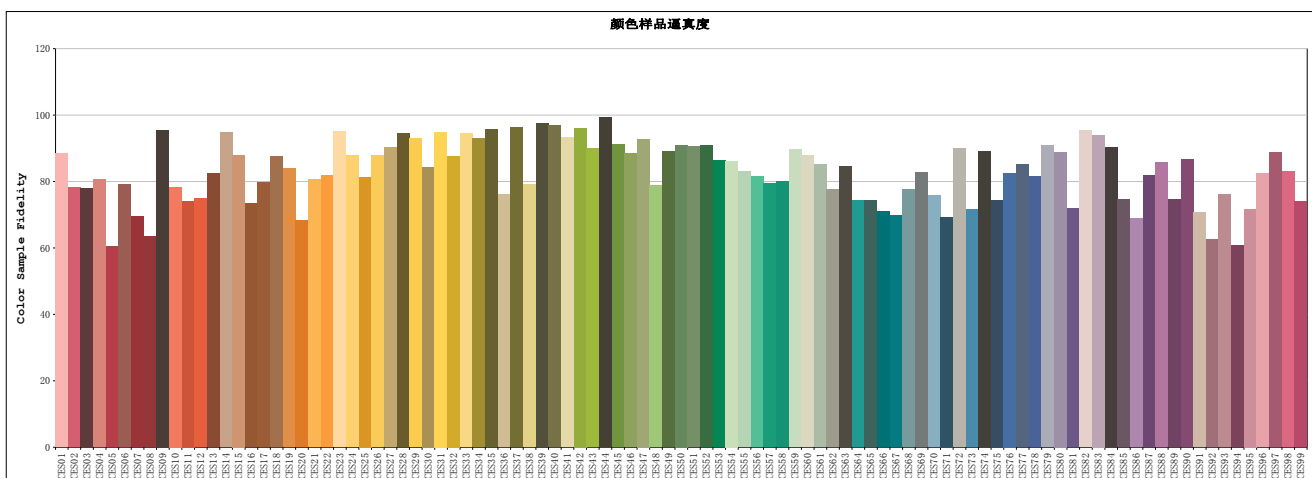
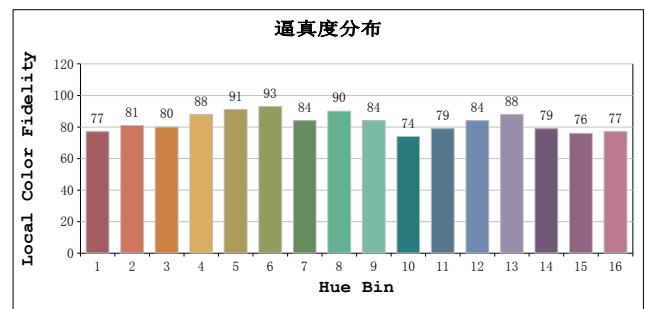
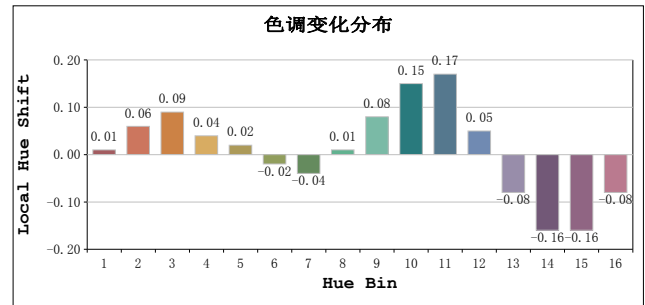
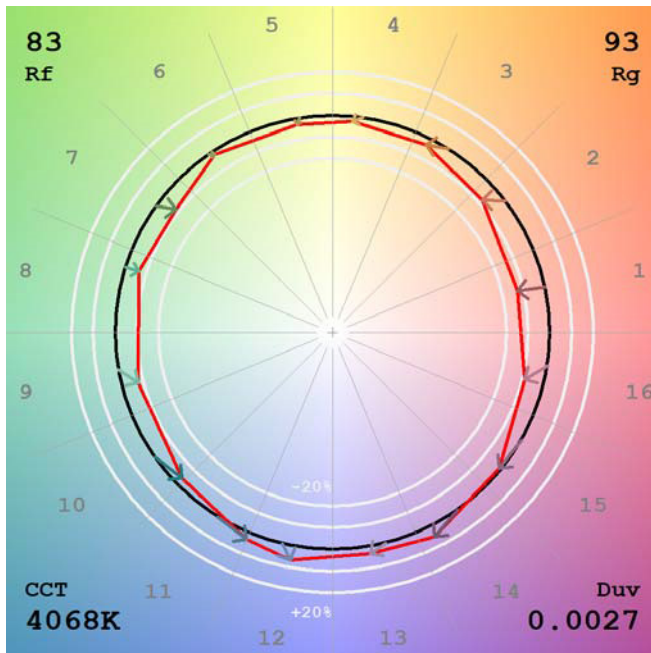
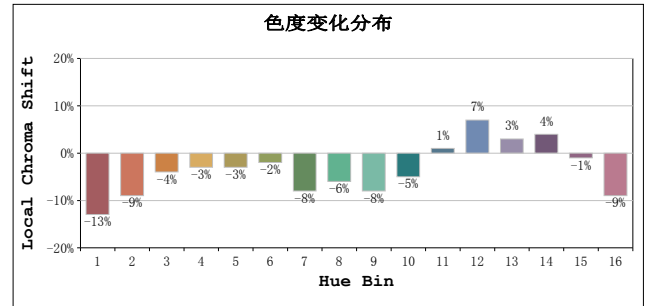
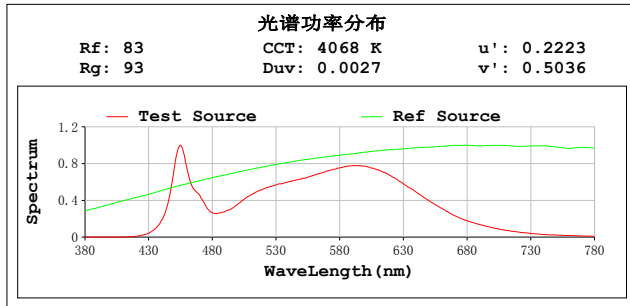
NOTE:  
SEP:Single End Power Supply

|                                   |                       |                     |                           |
|-----------------------------------|-----------------------|---------------------|---------------------------|
| Dimension:                        | Diameter 25mm         | Input Current/m:    | 0.4~0.8A/M(0.12~0.24A/ft) |
| Color Rendering Index:            | Ra>90                 | Static Electricity: | 1000V (ESD)               |
| Beam Angle:                       | 360°                  | Warranty:           | 5years                    |
| Operating Ambient temperature Ta: | -20-45° C [-4~113° F] | Energy Grade:       | G                         |
| Pixel Segment& Address QTY:       | 16Pixel/M             | Lifespan :          | 50,000H                   |

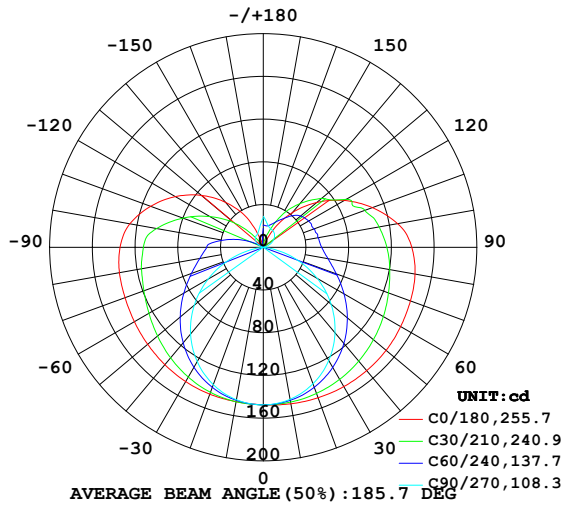
Notice:

- Luminous flux or CCT 2700K is 10% lower, or CCT 3000/3500K is 5% lower, for CCT 5000K/ 6500K is the same compared with 4000K.
- Energy efficiency class of regulation (EU)201 9/2020 is F(CRI80) for 4000K and G(CRI80) for CCT, it varies depending on CRI and CCT.
- The transmission direction of data must be from PI to Po following the arrow printing on FPC for DMX/SPI version, and can't be made by reverse connection, otherwise the strip will be out of control or even damaged.

## TM30 test report



## IES Data

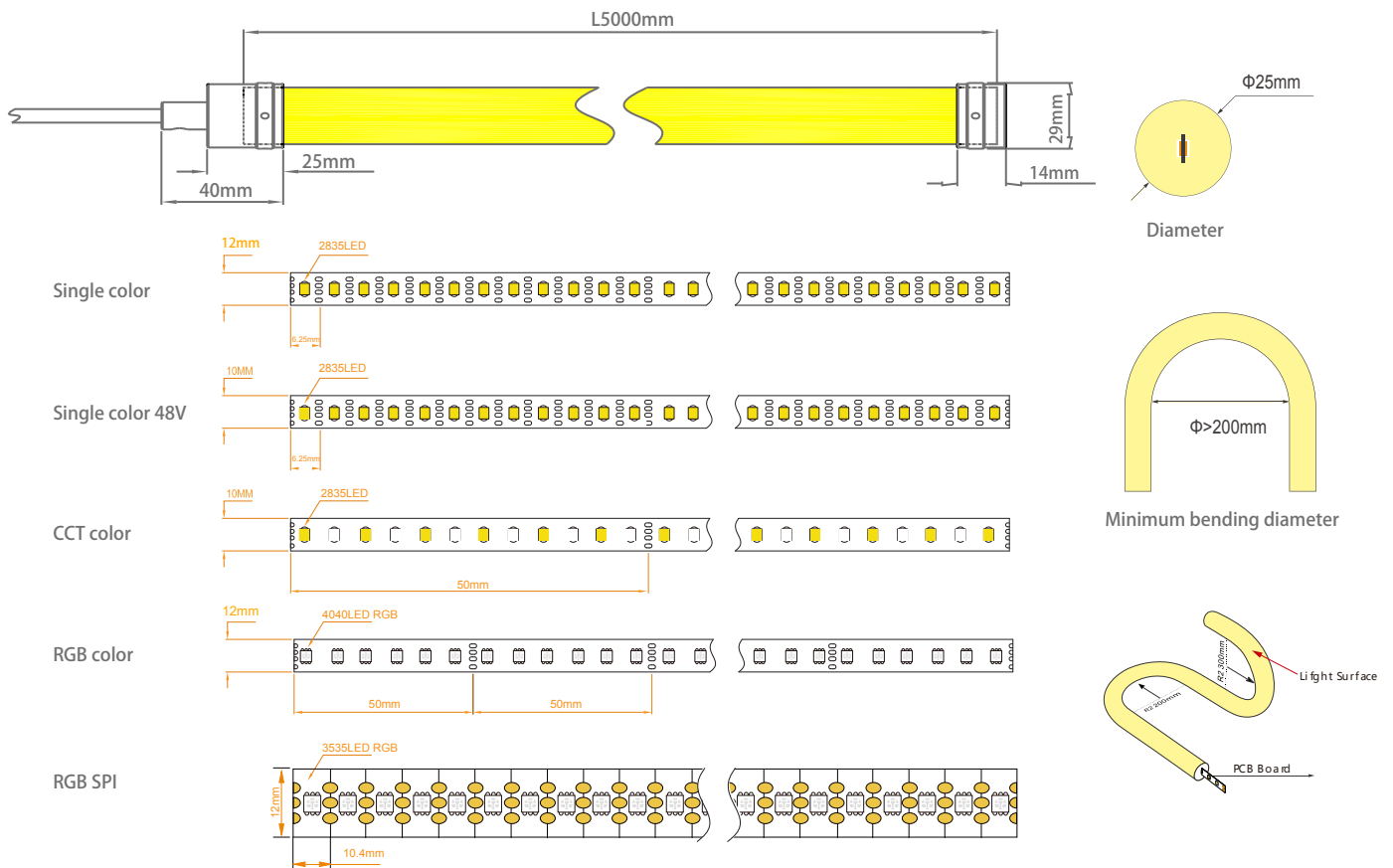


Flux out: 334.7 lm

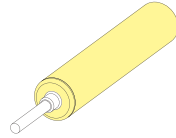
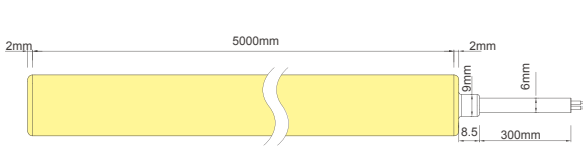
| Height | Eavg, Emax      | Angle: 107.82deg | Diameter  |
|--------|-----------------|------------------|-----------|
| 1m     | 56.24, 148.81lx |                  | 274.38cm  |
| 2m     | 14.06, 37.20lx  |                  | 548.77cm  |
| 3m     | 6.249, 16.53lx  |                  | 823.15cm  |
| 4m     | 3.515, 9.299lx  |                  | 1097.54cm |
| 5m     | 2.250, 5.952lx  |                  | 1371.92cm |
| 6m     | 1.562, 4.133lx  |                  | 1646.30cm |
| 7m     | 1.148, 3.036lx  |                  | 1920.69cm |
| 8m     | 0.8788, 2.325lx |                  | 2195.07cm |
| 9m     | 0.6943, 1.837lx |                  | 2469.45cm |
| 10m    | 0.5624, 1.488lx |                  | 2743.84cm |

Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

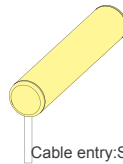
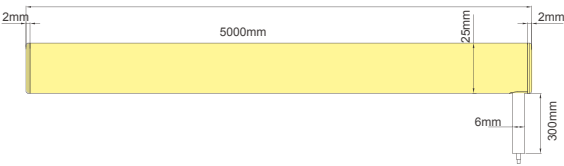
## Drawing



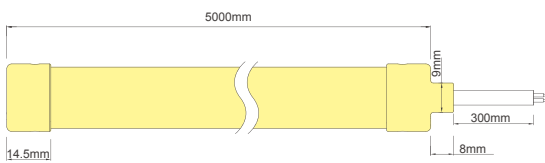
## Cable entry method



Cable entry: Front



Cable entry: Side Front



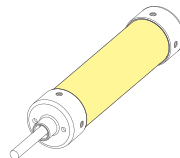
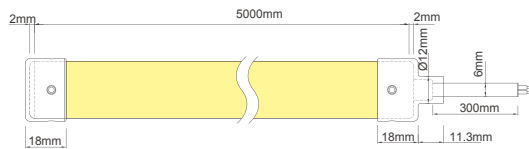
Silicone Cable Entry: Front



MX-08-001490



MX-08-001491



Alu Cable Entry: Front



MX-01-002494



MX-01-002495

## || Outlet wire way and cap

Note: Only show the outlet wire way and cap



Linear Outlet  
Plug Fit Silicone Cap



End cap  
Plug Fit Silicone Cap



Linear Outlet  
Injection Molded



Bottom Injection Molded

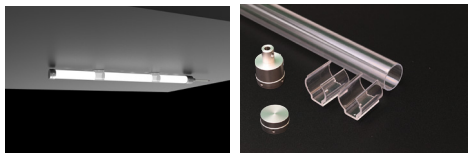


End Injection Molded

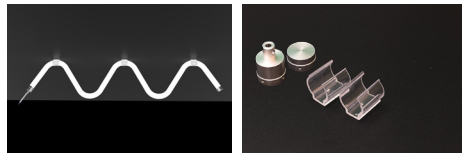


## Installation schematic

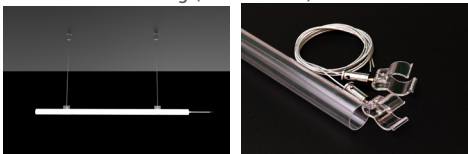
>Horizontal installation-(MX-PJ-03009) (MX-PJ-02876) (MX-PJ-02870)



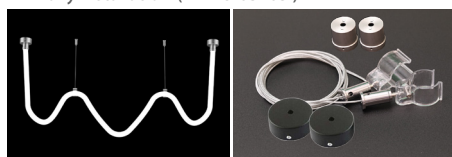
>>DIY ceiling-(MX-PJ-02876) (MX-PJ-02870)



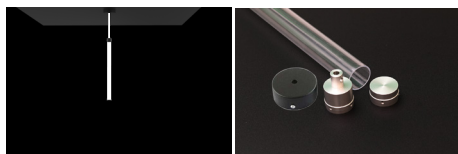
>Horizontal hoisting-(MX-PJ-03106)



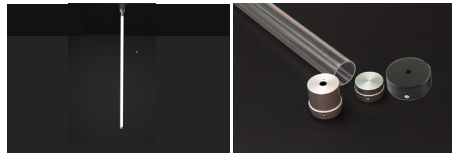
>Wavy installation-(MX-PJ-03105)



>>Vertical Lifting B-(MX-PJ-03159)



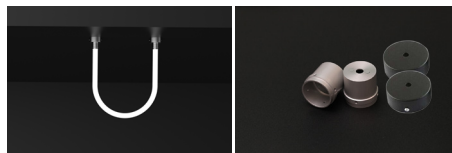
>>Vertical Lifting A- (MX-PJ-02868) (MX-PJ-03009)



>>Circular ring lifting-(MX-PJ-02882)



>>U-shaped Lifting-(MX-PJ-03104)



## Accessories color can be customized



Satin Brass



Blackened Brass



Antique Brass



Satin Nickel



Brick red Copper

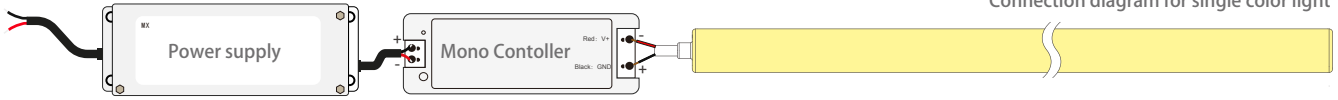


Satin Copper

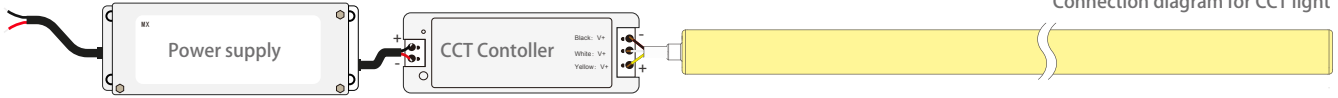


## Connection diagram

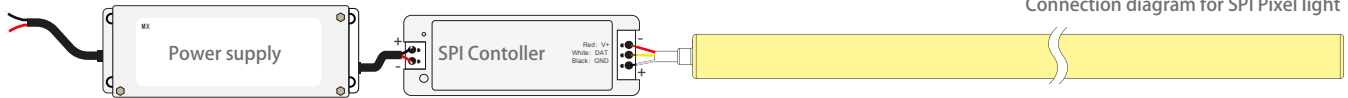
Connection diagram for single color light



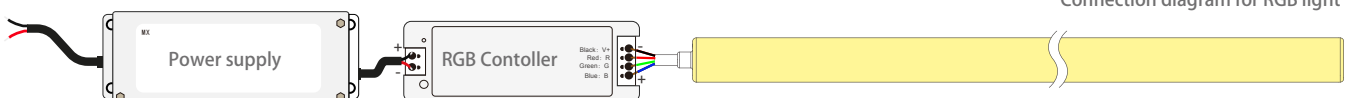
Connection diagram for CCT light



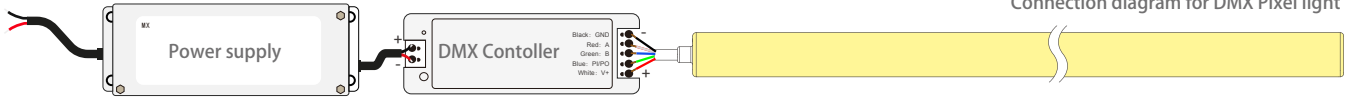
Connection diagram for SPI Pixel light



Connection diagram for RGB light



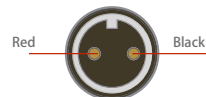
Connection diagram for DMX Pixel light



## ELECTRICAL WIRING COLOR CODES

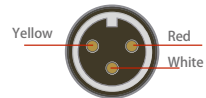
### MONOCOLOR

Red: V+  
Black: GND



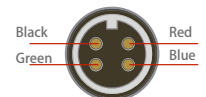
### CCT

Red: V+  
White: C  
Yellow: W



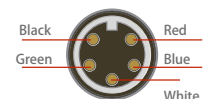
### RGB

Black: V+  
Red: R  
Green: G  
Blue: B



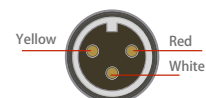
### RGBW

Black: V+  
Red: R  
Green: G  
Blue: B  
White: W



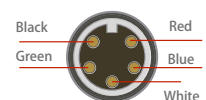
### SPI

Red: V+  
Yellow: DAT  
White: GND



### DMX

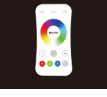
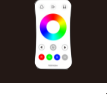
Black: GND  
White: PI/PO  
Blue: A  
Green: B  
Red: V+



### RGBCCT

Black: V+  
Red: R  
Green: G  
Blue: B  
White: C  
Yellow: W

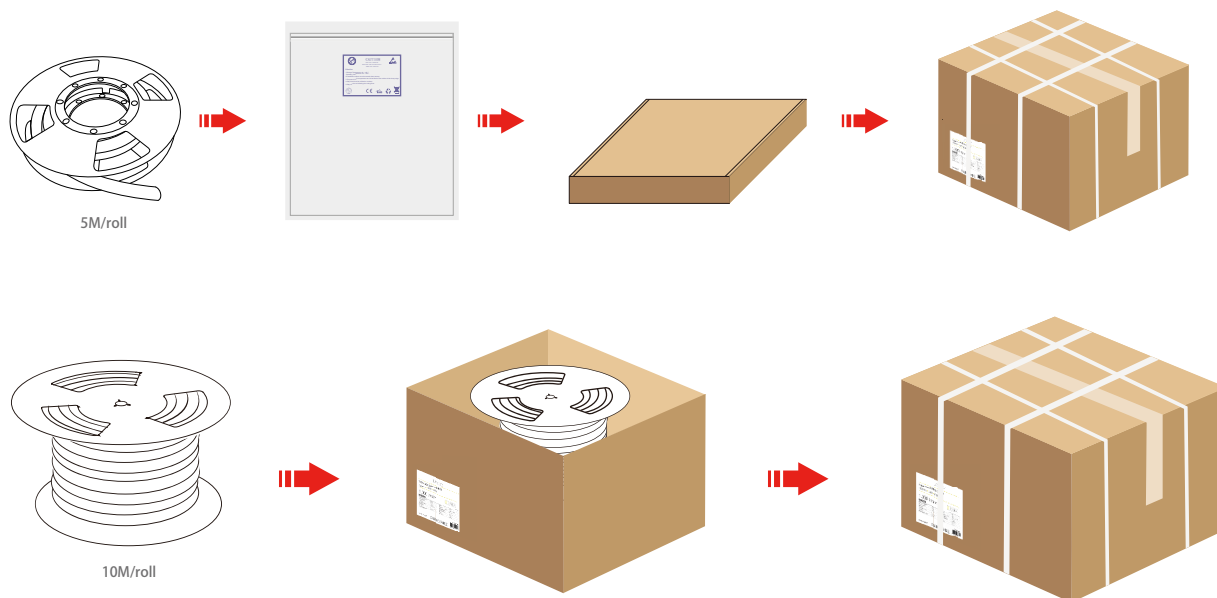
## Controller

| Picture                                                                             | Item                         | Model                         | Spec                                                                                                                                                                                                    | Match                           |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|    | Monochrome remote            | MX-03-030472                  | Output signal:RF(2.4GHz)<br>Working voltage:3VDC(CR2032)<br>Remote control distance:30m<br>Working temperature:Ta:-30°C~+55°C                                                                           | Use with Monochrome light strip |
|    | Monotone light controller    | MX-03-030322                  | Input voltage:12-48VDC<br>Output current:15A@12V-10A@36/48V<br>Output Power:180W@12V-360W@24V<br>360W@36V-480W@48V<br>Working temperature:Ta:-30°C~+55°C                                                | Use with Monochrome light strip |
|    | CCT remote                   | MX-03-030466                  | Output signal:RF(2.4GHz)<br>Working voltage:3VDC(CR2032)<br>Remote control distance:30m<br>Working temperature:Ta:-30°C~+55°C                                                                           | Use with CCT light              |
|    | Color temperature controller | MX-03-030437                  | Input voltage :12-24VDC<br>Output current :2CH,5A/CH<br>Output Power :2x(120-240)W<br>Working temperature:Ta:-30°C~+55°C                                                                                | Use with CCT light              |
|  | RGB remote                   | MX-03-030469                  | Output signal :RF(2.4GHz)<br>Working voltage :3VDC(CR2032)<br>Remote control distance:30m<br>Working temperature:Ta:-30°C~+55°C                                                                         | Use with RGB light              |
|  | RGB Controller               | MX-03-030467                  | Input voltage :12-24VDC<br>Output current :3CH,4A/CH<br>Output Power :144-288W<br>Working temperature:Ta:-30°C~+55°C                                                                                    | Use with RGB light              |
|  | RGBW remote                  | MX-03-030454                  | output signal:RF(2.4GHz)<br>Working voltage:3VDC(CR2032)<br>Remote control distance:30m<br>Working temperature:-30°C~+55°C                                                                              | Use with RGBW light             |
|  | RGBW Controller              | MX-03-030455                  | Input Voltage:12-24 VDC;<br>Output Current:4A*4CH, Max 6A/CH;<br>192W/384W (12V/24V)                                                                                                                    | Use with RGBW light             |
|  | MX-03-030475                 | LTSA512 DMX Master Controller | Input Voltage:5V DC<br>Power Consumption:<2W<br>Connection way:Mini USB<br>Internal Memory:6000 steps@512Chs<br>Output Connector:XLR-3<br>Transmission Signal:DXM512<br>PC Software:LTECH LED player    | Use with DMX Pixel light        |
|  | MX-03-030479                 | DMX512 to SPI Pixel Decoder   | (1)5-24VDC<br>(2)Input Signal:DMX512/RDM+RF 2.4G<br>Output signal:pixel signal<br>(3)Control dots:1024<br>(4)Compatible with 37 kinds of Driving ICs;Numeric diaplay<br>(5)Reverse Polarity Protection. | Use with SPI Pixel light        |
|  | MX-03-030458                 | SPI Controller                | 12-24VDC<br>Input signal:RF2.4G,WORK WITH R9 remote<br>Output signal:SPI(TTL)<br>Control dots:1024<br>Compatible with 45 kinds of Driving ICs<br>Reverse polarity protection                            | Use with SPI Pixel light        |
|  | MX-03-030459                 | RGB/RGBW SPI remote           | Output signal:RF(2.4Hz)<br>Working voltage:3VDC(CR2032)<br>Remote control distance:30m<br>Working temperature:-Ta30°C~+55°C                                                                             | Use with SPI Pixel light        |

## Reliability test of light

| TEST TYPE                   | TESTING ITEM                         | TEST STANDARD                               | DESCRIPTION                                                                                                                                                                                               |
|-----------------------------|--------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHOTOMETRIC TEST            | Spectrum Analysis                    | LM 79                                       | LM 79(lumen,CCT,CRI,XY,SDCM,wave length)                                                                                                                                                                  |
|                             | Photometric Distribution             | LM 79                                       | LM 79(lumen intensity distribution&Lux diagram)                                                                                                                                                           |
|                             | Lumen Maintenance&Life Time          | IES LM 80&IES TM28 GB/T24824-2009           | LM 80&IES TM28                                                                                                                                                                                            |
| ELECTRICAL TEST             | EMC Test                             | EMI & EMS                                   | IEC 61547/GBT 18595<br>IEC 61000-3-2/GB 17625.1                                                                                                                                                           |
| MECHANICS & PHYSICE TESTING | Bending Test Vertical                | Mingxue                                     | Manufacturer-defined,100 cycles 3 times bending with 0.5m/s pulling speed                                                                                                                                 |
|                             | Bending Test Horizontal              | R2                                          | Manufacturer-defined,100 cycles 3 times bending with 0.5m/s pulling speed                                                                                                                                 |
|                             | Wrestling test                       | Mingxue                                     | COB/CSP 500 / SMD 1000. cycles                                                                                                                                                                            |
|                             | Swing Test                           | UL2388                                      | UL2388,>750 cycles                                                                                                                                                                                        |
|                             | Tensile Test                         | IEC 60598-1; GB7000.1                       | Manufacture-defined,>the weight of light in maximum connection length wiht both ends feed. With 30Nm if total cross section <0,75 or 60Nm force, pull wire 25 timesduring 1 sec. Mark displacement ≤ 2mm. |
|                             | Twist Test                           | Mingxue                                     | Manufacturer-defined,>200 cycles in 720°                                                                                                                                                                  |
|                             | Curl test                            | Mingxue                                     | Back and forth 80-100 times                                                                                                                                                                               |
|                             | IK06-08-10                           | IEC62262                                    | IEC62262 The hammer spring Impact energy 0.7J                                                                                                                                                             |
|                             | Adhesion test                        | JB1256-77                                   | 3M 4229P hung on 2kg loads >7 hrs                                                                                                                                                                         |
|                             | Drop test                            | IEC68-2-6                                   | IEC68-2-6,GB/T2423/10/95                                                                                                                                                                                  |
|                             | Vibration test                       | ISTA-1A                                     | bear up to 25,4mm amplitude in 14200 cycles                                                                                                                                                               |
|                             | Winding Test                         | IEC 60598-1;<br>IEC 60598-2-21; GB-7000.1   | φ 150mm cylinder, 60N pull, winding 10 times at (-25°C ±2°C) , and 10 times after(-15°C ±2°C, 16h).                                                                                                       |
|                             | Electrical strength                  | IEC 60598-1;<br>IEC 60598-2-21 GB-7000.1    | 500V                                                                                                                                                                                                      |
|                             | Product accessories disassembly test | Mingxue                                     | Product accessories are installed and adapted 5-10 times                                                                                                                                                  |
| ENVIRONMENT TESTING         | Heating test                         | IEC 60598-1: 12.4                           | Sample to be tested under normal installation Under 1.06 times Rating Voltage After 30 minutes.                                                                                                           |
|                             | Salt Spray Test                      | IEC 60068-2-11                              | 5% salt solution concentration,5% salt water,35+/-2C for 72hrs                                                                                                                                            |
|                             | High temperature and Humidity impact | IEC 60068-2-78 GB/T 2423.3                  | 60+/-2° C for 168 hrs<br>60°C, 85%RH ,Test light decay data<3%                                                                                                                                            |
|                             | Temperature Shock Test               | IIEC60068                                   | Manufacturer-defined,-40°C-60°C(typical temperature ange) 168H                                                                                                                                            |
|                             | switch test                          | GB/T24824-2009                              | 30s On, 30s Off, 15000 times;on/off every 30S, > 15000 cycles                                                                                                                                             |
|                             | Lifetime aging test                  | Mingxue                                     | Normal temperature 25°C                                                                                                                                                                                   |
|                             | Constant Temperature Test            | Mingxue                                     | Manufacturer-defined,60°C to -40° ( typical temperature )                                                                                                                                                 |
|                             | Cold Bend Test                       | IEC 60598-1;<br>IEC 60598-2-21<br>GB-7000.1 | wound on mandrel,low-temperature (-15°C ±2°C, 16h), around the mandrel for two turns                                                                                                                      |
|                             | Cold Impact test                     | IEC 60598-1;<br>IEC 60598-2-21<br>GB-7000.1 | Low-temperature (-15°C ±5°C, 16h), hammer falls from a height of 100mm.                                                                                                                                   |
|                             | UV Exposure Test                     | ASTMG154-06                                 | ASTMG 154,ISO 4892-3, UVA@340nm<br>ASTMG154-06, UVA-340 0.68W/m2 for 500 hrs                                                                                                                              |
|                             | IPX5 IPX6 IPX7 IPX8                  | IEC 60598-1;<br>IEC 60598-2-21<br>GB-7000.1 | IEC60529<br>IPX5/X6/<br>IPX7/X8                                                                                                                                                                           |

## Packing



## Safety Information

### Application notes for led flexiable strip

In order to drive LED flexible strip lights safely, it is absolutely necessary to operate them with an electronically stabilised power supply protecting against short circuits, overload and overheating.

To also ease the luminaire/installation approval, electronic control gear, power supply and all electronic accessories for LED or LED modules should carry "CE, or UL" mark and meet the latest safety standard.

- Please use 24VDC isolated power supply to drive the led strip, and the constant voltage source ripple less than 5%. Can't step-down the power by resistance-capacitance and non-isolated power supply driver led strip, etc.
- To ensure the longevity and reliability of the strips, please do not bend the arc diameter 60mm or less, do not fold to avoid damaging the lamp beads or broken.
- To ensure the life and environment of lights, in the use of force can not pull the power cord to avoid damage to prohibit collision LED lights.
- During the installation of positive and negative attention to the power cord, do not pick the wrong voltage power supply and the product are the same, so as to avoid damage to the product.
- LED lights should be stored in dry sealed environment, the proposed storage period should not be too long before using unpacking, the working temperature:  $-20 \sim +45$ , Storage temperature:  $-0 \sim +60$ , not waterproof lights band indoor use, relative humidity not higher than 70%.
- In practical applications, the power supply should leave 20% margin (recommend using only 80% of the power) in order to ensure a sufficient amount of voltage drive products
- Do not use any acidic, alkaline adhesive securement products (including not limited to glass, plastic, etc.)

