



# Product Specification

## SMD2835 silicone extrusion



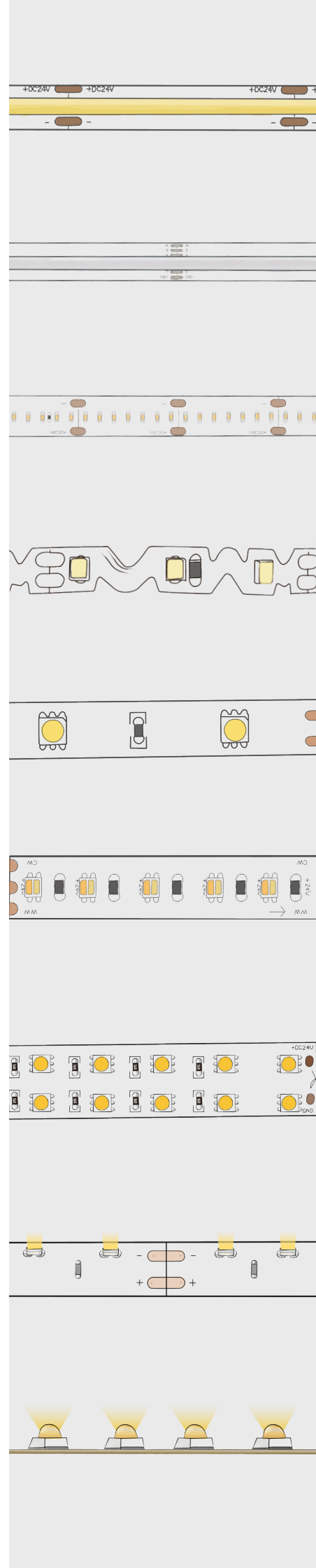
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Tel: +86-755-27637866

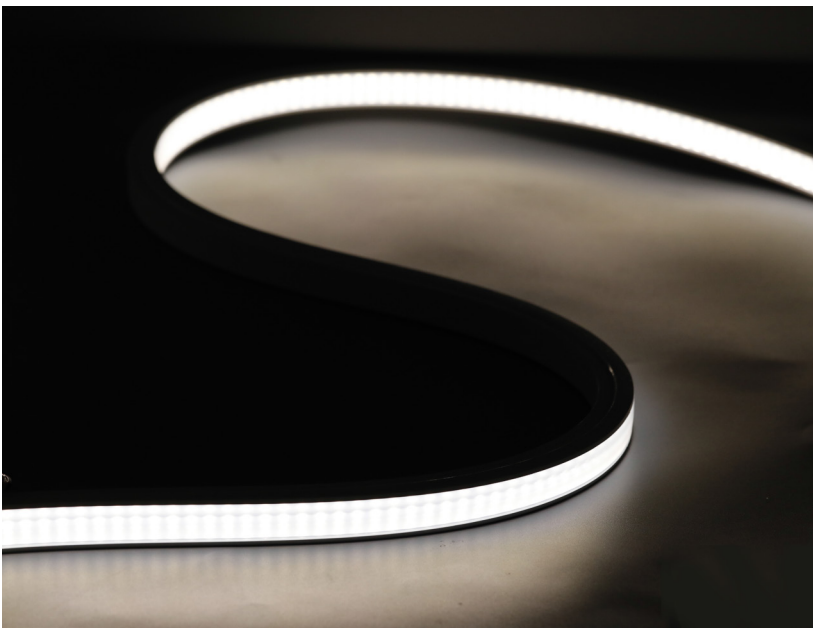
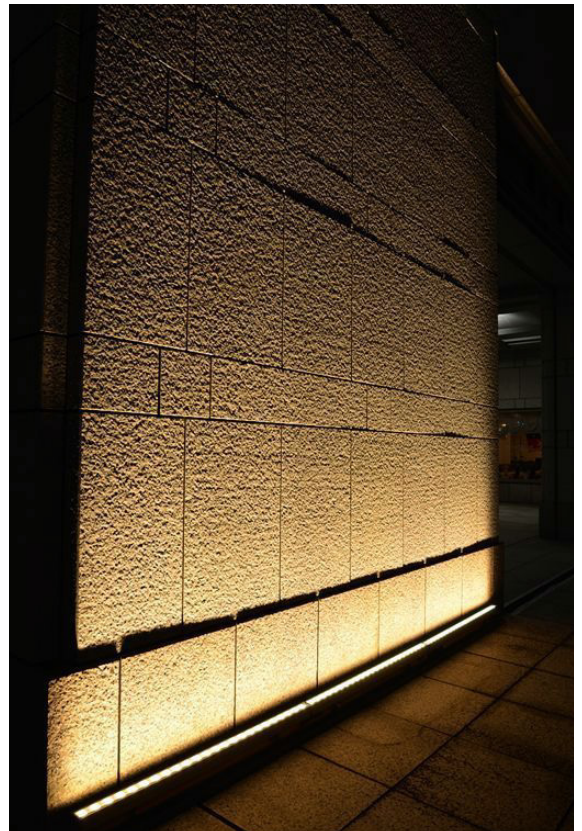
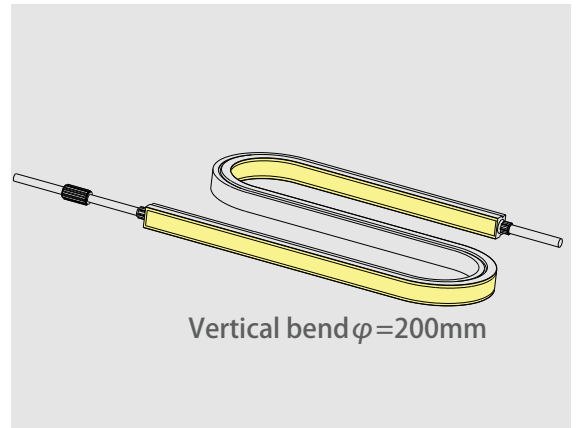
Address: 14 Floor, T3 Building, HIPAR technology building, Shiyan Town, Bao'an District, Shenzhen, China.

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



## SMD2835 silicone extrusion

- Compared with the ordinary Neon strip, the structure is unique, and the light Angle can be up to  $45^{\circ}$  without a lens. Longer irradiation distance, the output light utilization efficiency of the product under the same luminous flux is higher, also has higher CD value.
- Optimize the structure design and improve the optical efficiency. The material is resistant to flame retardant and UV;
- 5M/roll, can do Monochrome, CCT and RGB version;
- Can reach IP67 protection level, used indoors and outdoors.



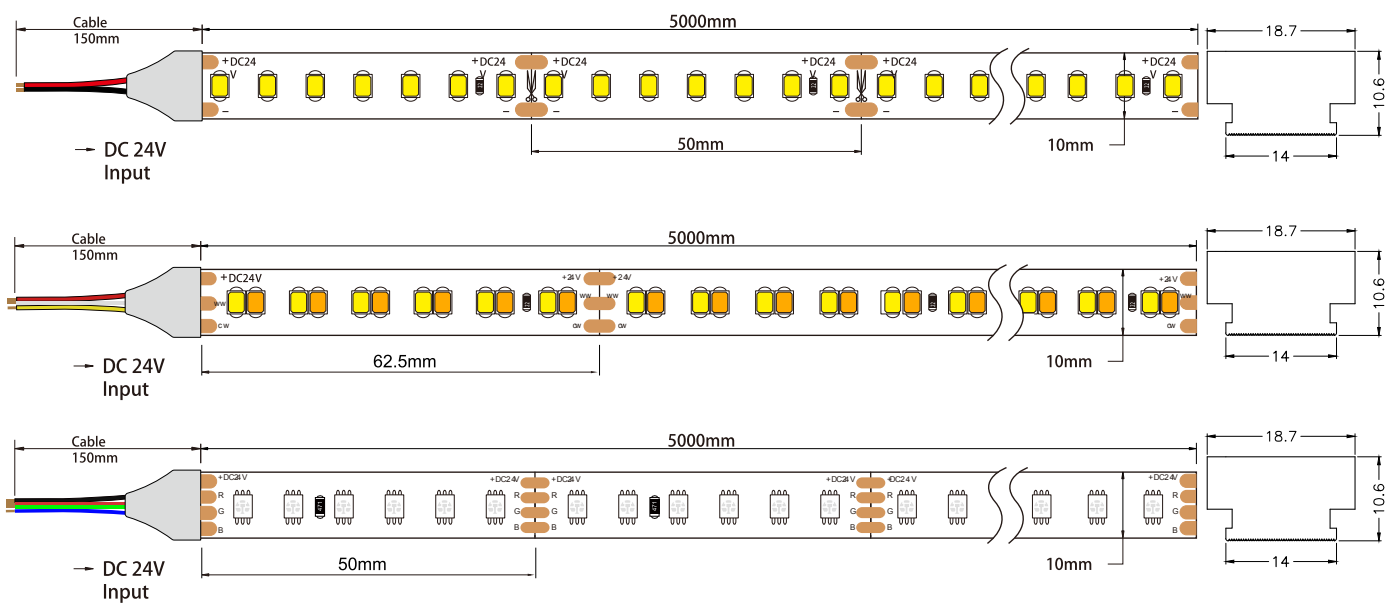
## TECHNICAL SPEC

| Series | Item Code                         | Input voltage | CCT/K      | Lm/M | Lm/ft | Lm/W | Angle | IP Rating | Min. cut |
|--------|-----------------------------------|---------------|------------|------|-------|------|-------|-----------|----------|
|        | MF328V140Q80-D027A6A10107N-1811ZA | 24V           | 2700k      | 1670 | 509   | 116  | 45°   | IP67      | 50mm     |
|        | MF328V140Q80-D030A6A10107N-1811ZA | 24V           | 3000k      | 1757 | 536   | 122  | 45°   | IP67      | 50mm     |
|        | MF328W140Q80-D040A6A10107N-1811ZA | 24V           | 4000k      | 1843 | 564   | 128  | 45°   | IP67      | 50mm     |
|        | MF328W140Q80-D050A6A10107N-1811ZA | 24V           | 5000k      | 1850 | 562   | 128  | 45°   | IP67      | 50mm     |
|        | MF328W140Q80-D065A6A10107N-1811ZA | 24V           | 6500k      | 1850 | 562   | 128  | 45°   | IP67      | 50mm     |
|        | MF328U192Q80-D801I6A10106N-1811ZA | 24V           | 2700-6500K | 1800 | 549   | 90   | 45°   | IP67      | 62.5mm   |
|        | MF328A120Q00-D000J6A10106N-1811ZA | 24V           | RGB        | 432  | 132   | 30   | 45°   | IP67      | 50mm     |

|                                   |                    |
|-----------------------------------|--------------------|
| LED Type :                        | 2835 LED           |
| Color Rendering Index:            | 80                 |
| Beam Angle:                       | 45°                |
| Operating Ambient temperature Ta: | -20-45°C[-4~113°F] |

|                  |                                         |
|------------------|-----------------------------------------|
| Input Current/m: | 0.6A(0.18A/ft)                          |
| Voltage:         | 24V                                     |
| Power/M:         | Monochrome:14.4W CCT:20W RGB:14.4W      |
| LED/M :          | Monochrome:140LED CCT:192LED RGB:120LED |

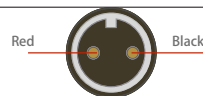
## Drawing



## ELECTRICAL WIRING COLOR CODES

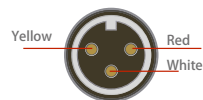
○ MONOCOLOR

Red: V+  
Black: GND



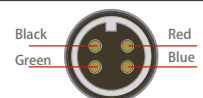
○ CCT

Red: V+  
White: C  
Yellow: W



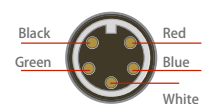
○ RGB

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



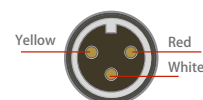
○ RGBW

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



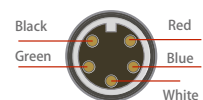
○ SPI

Red: V+  
Yellow: DAT  
White: GND



○ DMX

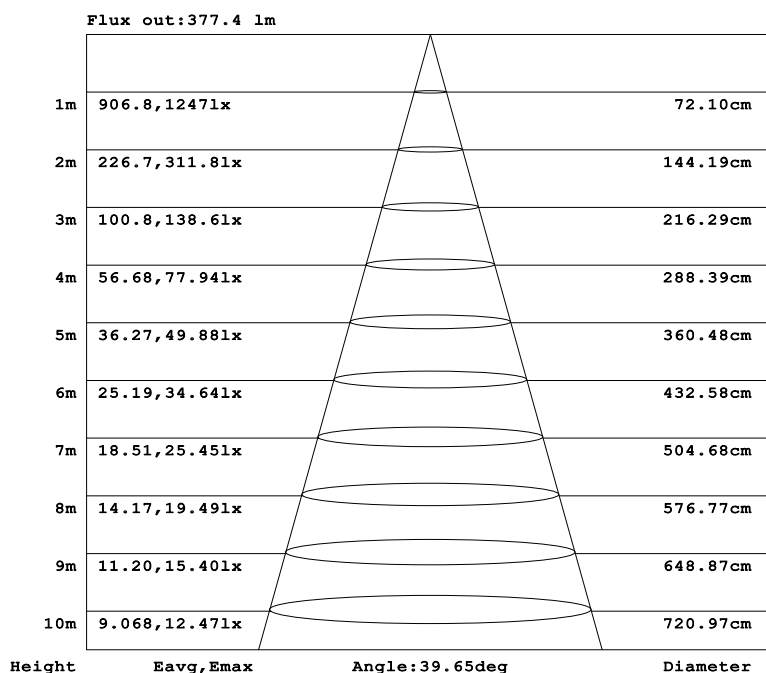
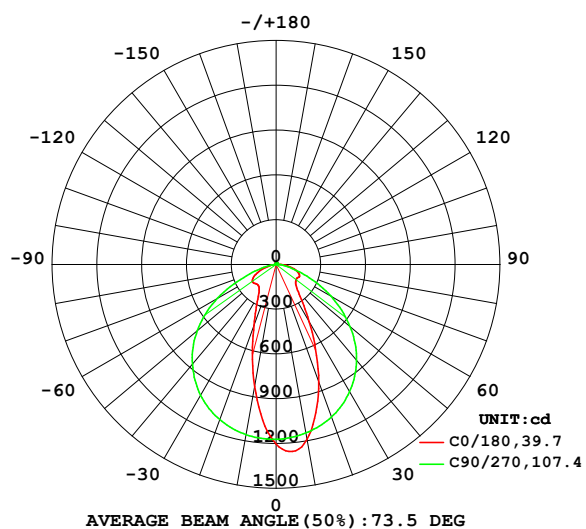
Black: GND  
White: PI/PO  
Blue: A  
Green: B  
Red: V+



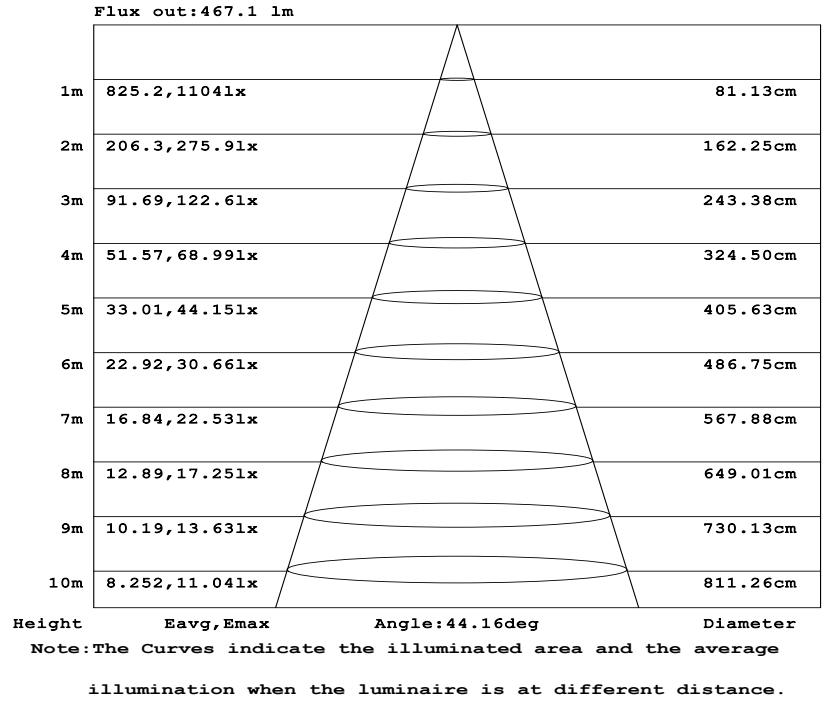
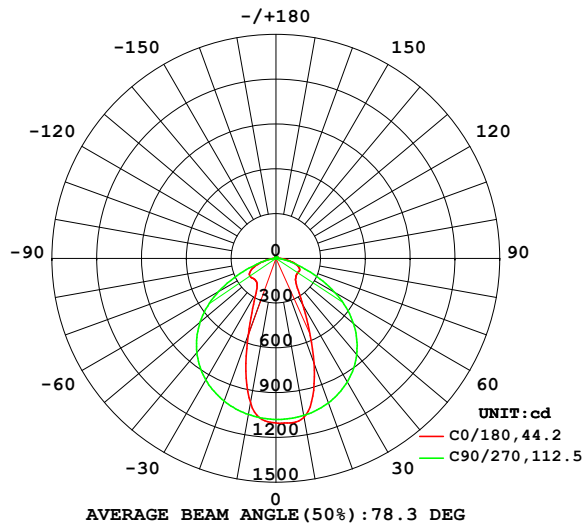
○ RGBCCT

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

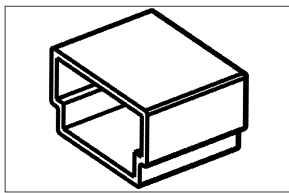
## Monochrome IES DATA



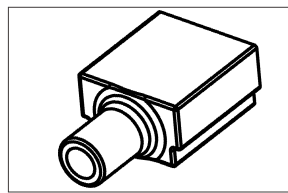
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



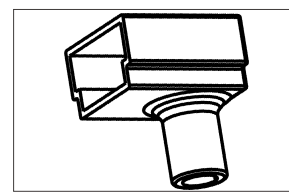
## Product accessories



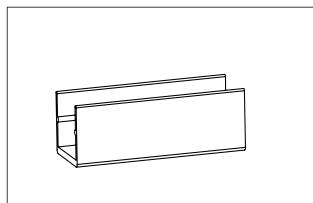
End cap  
MX-08-001754



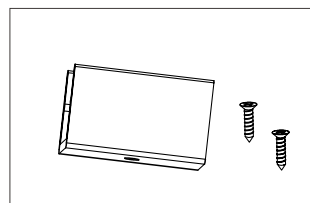
Entry cap (front)  
MX-08-001752



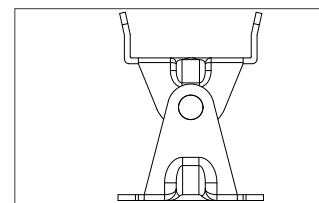
Entry cap (bottom)  
MX-08-001753



Aluminum  
Profiles  
MX-01-002867

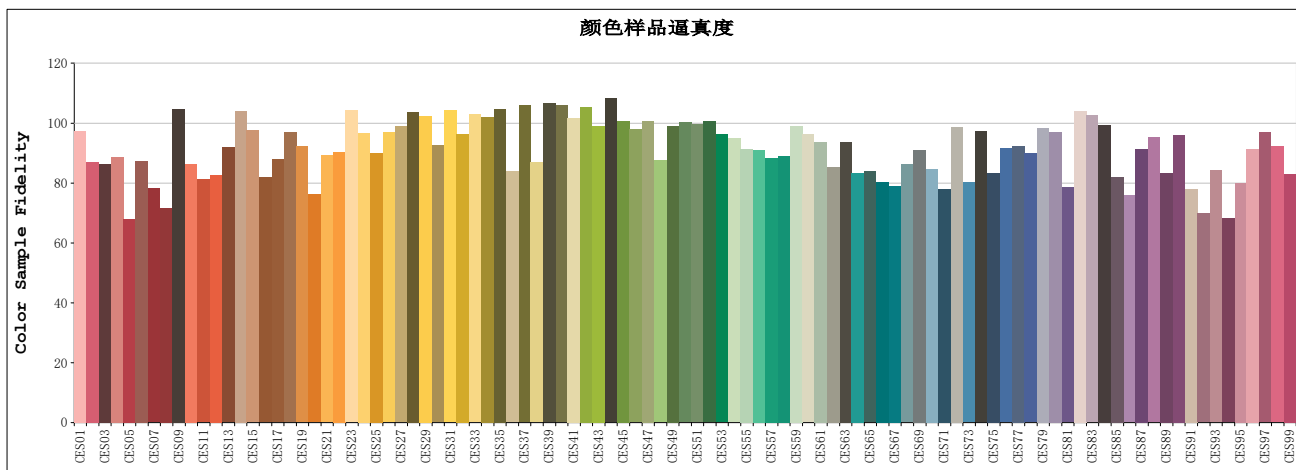
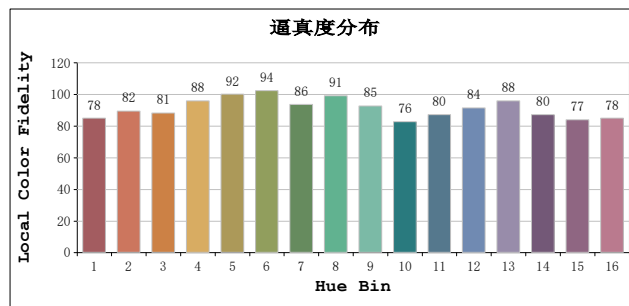
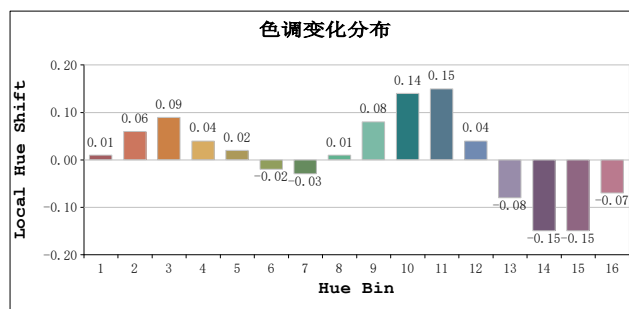
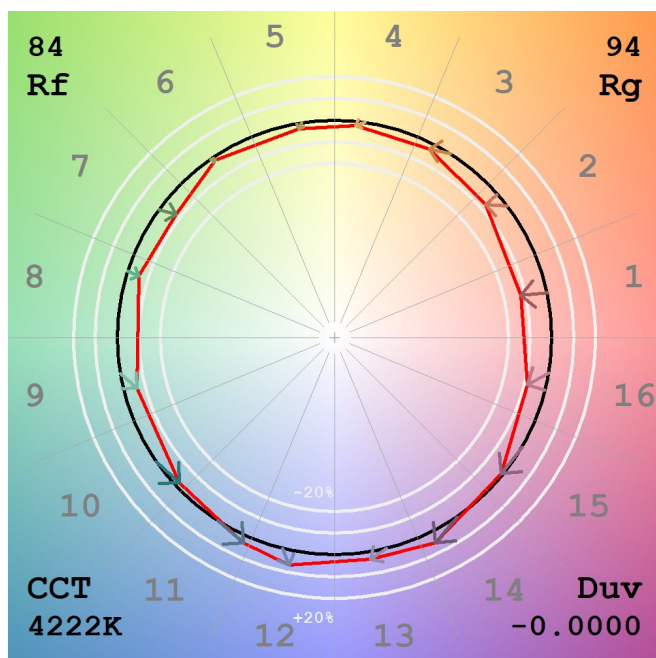
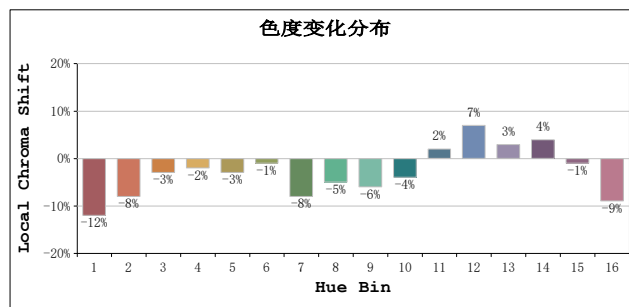
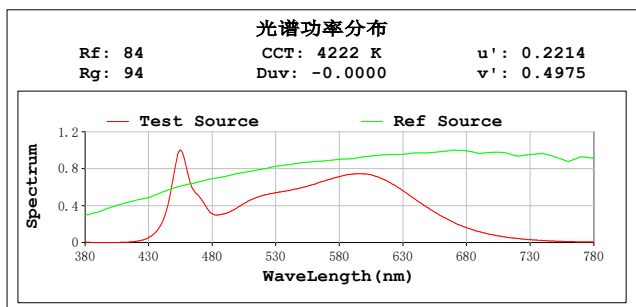


clip  
MX-01-002868

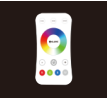
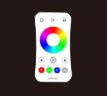


Adjustable support  
MX-01-002855

## TM30



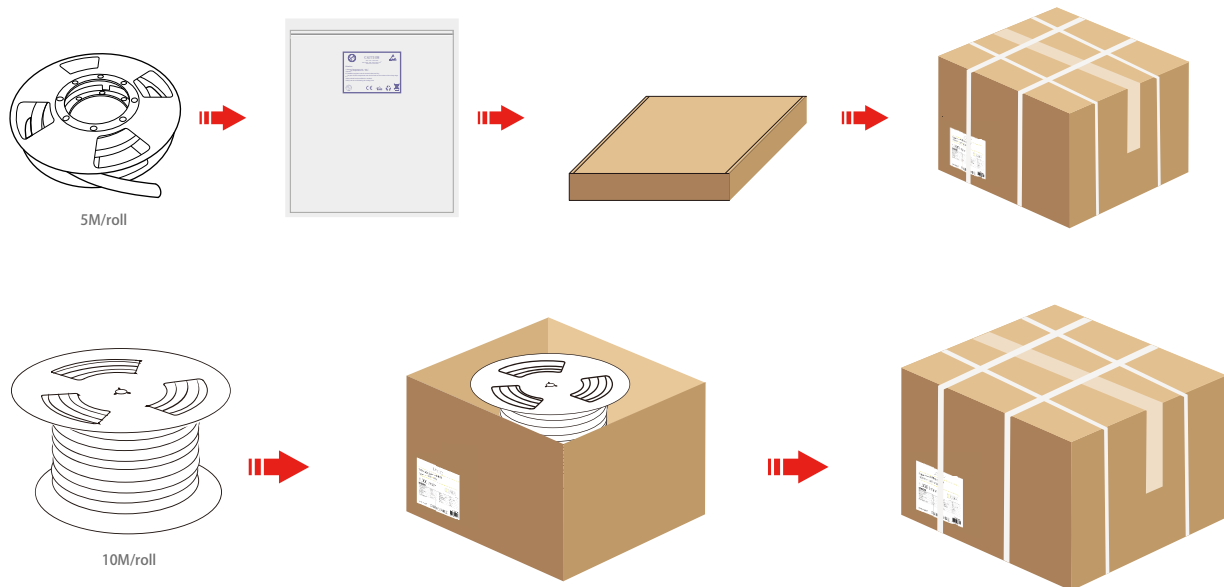
## CONTROLLER

| 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/24V-10A@36V/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 whith 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



## SATETY INFORMATION

### Application notes for led ~exiable strip

In order to drive LED ~exible 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 ~ +45, Storage temperature: -0 ~ +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.)