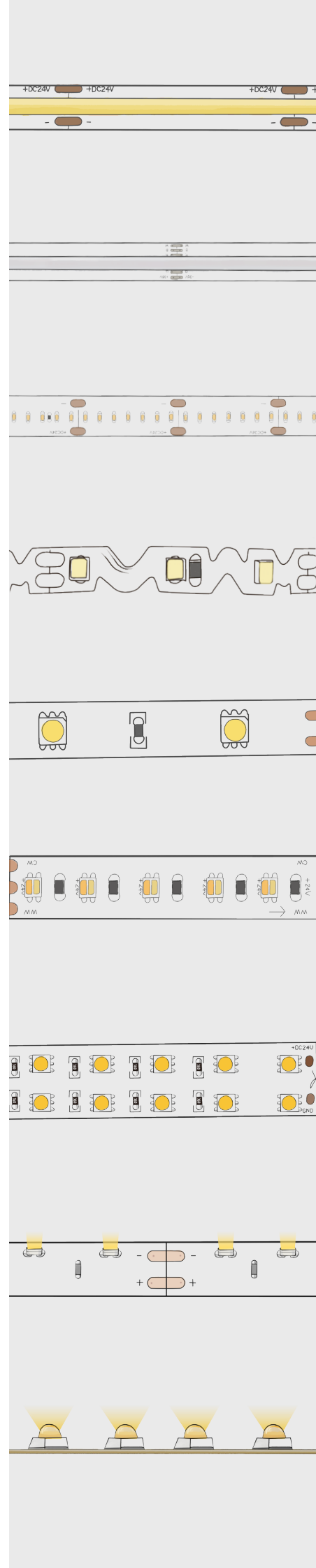




# Product Specification

## SMD2835 silicone extrusion



www.mingxueled.com

E-mail: [info@mingxue.cn](mailto:info@mingxue.cn)

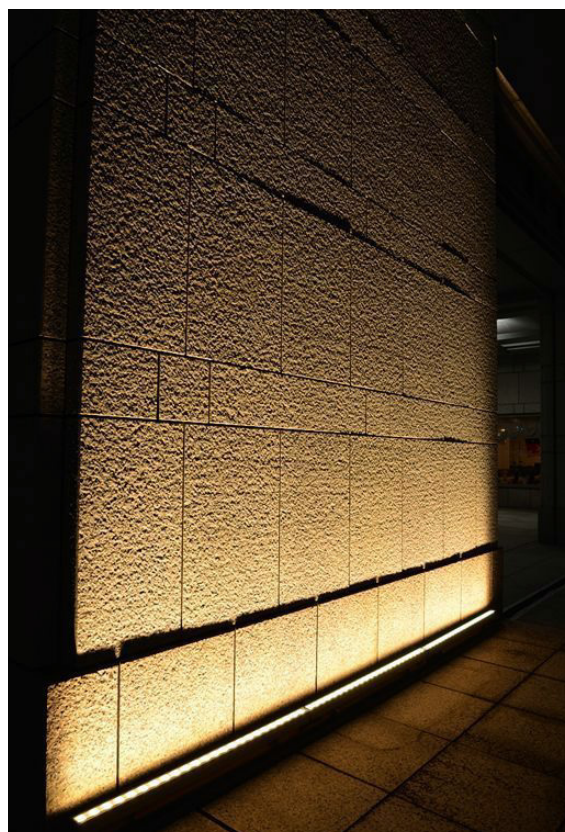
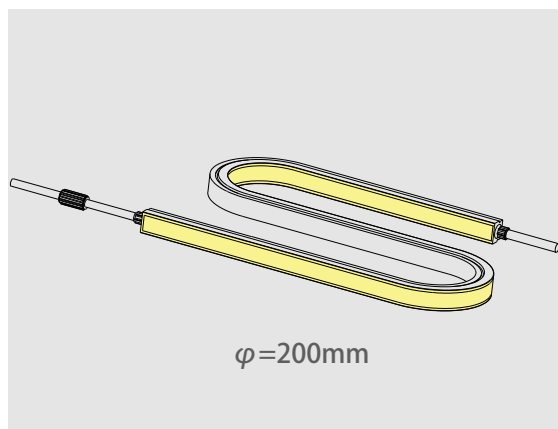
Tel: +86-755-27637866

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

- Compare to standard strip, it's concentrated lighting and longer irradiation distance with higher utilization efficiency and higher center illumination under the same luminous flux.
- Optimize the structure design and improve the optical efficiency. The material is resistant to flame retardant and UV;
- 5M/roll, can also cut as required length;
- Can reach IP65/IP67 protection level, used indoors and outdoors.



## TECHNICAL SPEC

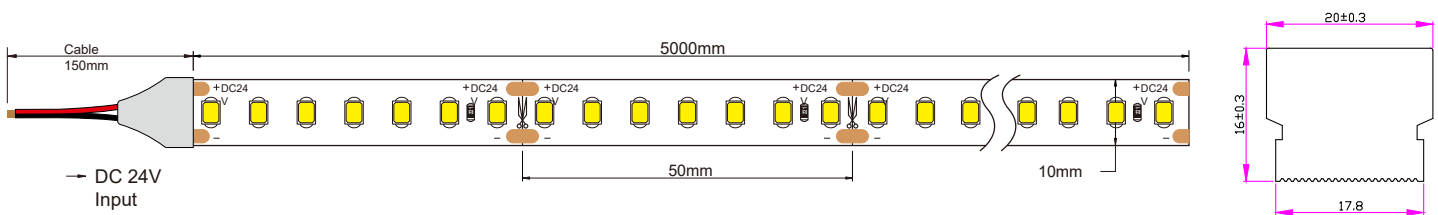
Series	Item Code	Input voltage	CCT/K	Lm/M	Lm/ft	Lm/W	Angle	IP Rating	Max Leg
STA Series 50mm cut	MN328W140Q80-D027T1A10	24V	2700k	1552	473	97	30°	IP67	5m
	MN328W140Q80-D030T1A10	24V	3000k	1648	502	103	30°	IP67	5m
	MN328W140Q80-D040T1A10	24V	4000k	1728	527	108	30°	IP67	5m
	MN328W140Q80-D050T1A10	24V	5000k	1744	558	109	30°	IP67	5m
	MN328W140Q80-D065T1A10	24V	6500k	1760	537	110	30°	IP67	5m

LED Type :	2835 LED	Input Current/m:	0.66A(0.2A/ft)
Color Rendering Index:	85	Voltage:	24V
Beam Angle:	30°	Power:	16W(4.9W/ft)
Operating Ambient temperature Ta:	-20~45°C[-4~113°F]	LED/M :	140LED

### 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 E(CRI80) for 4000K and F(CRI80) for CCT, it varies depending on CRI and CCT.
- Applying with extra heat sink is not necessary with self-cooling capacity.
- The transmission direction of data must be from PI to Po following the arrow printing on FPC for DMX version, and can't be made by reverse connection, otherwise the strip will be out of control or even damaged.

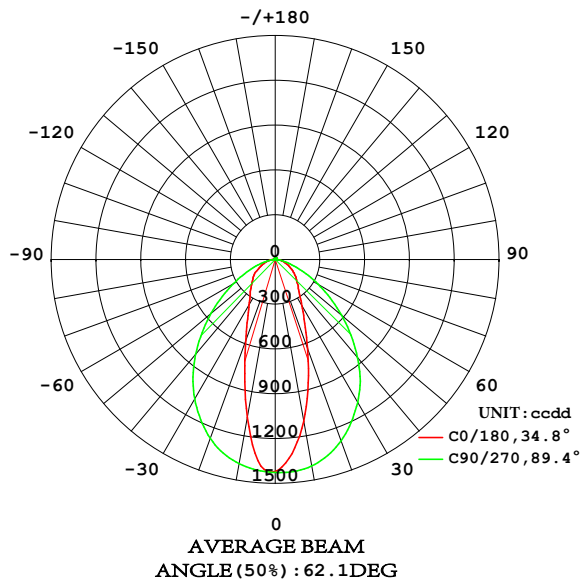
## CABLE ENTRY METHOD



## ELECTRICAL WIRING COLOR CODES

MONOCOLOR	Red: V+ Black: GND	Red Black
CCT	Red: V+ White: C Yellow: W	Yellow Red White
RGB	Black: V+ Red: R Green: G Blue: B	Black Green Red Blue
RGBW	Black: V+ Red: R Green: G Blue: B White: W	Black Green Red Blue White
SPI	Red: V+ Yellow: DAT White: GND	Yellow Red White
DMX	Black: GND White: PI/PO Blue: A Green: B Red: V+	Black Green Red Blue White
RGBCCT	Black: V+ Red: R Green: G Blue: B White: C Yellow: W	Black Green Red Blue White

## IES DATA

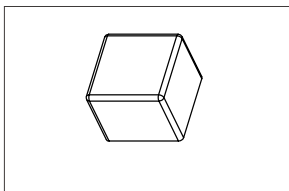


Flex out: 355.8 1m

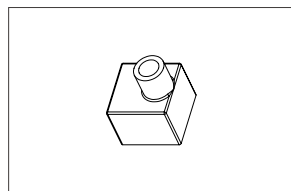
Height	Eavg, Emax	Angle: 34.85deg	Diameter
1m	1073, 1428lx		62.76cm
2m	268.2, 357.1lx		125.53cm
3m	119.2, 158.7lx		188.29cm
4m	67.05, 89.26lx		251.06cm
5m	42.91, 57.13lx		313.82cm
6m	29.80, 39.67lx		376.58cm
7m	21.89, 29.15lx		439.35cm
8m	16.76, 22.32lx		502.11cm
9m	13.24, 17.63lx		564.88cm
10m	10.73, 14.28lx		627.64cm

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

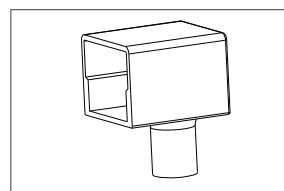
## Installation



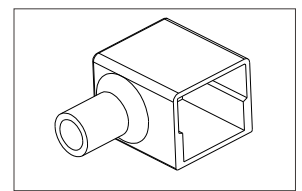
End cap  
MX-08-001702



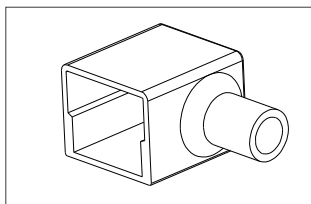
Entry cap (front)  
MX-08-001700



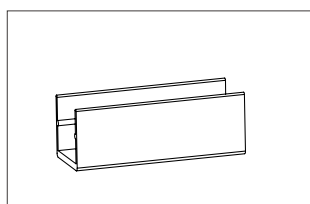
Entry cap (bottom)  
MX-08-001701



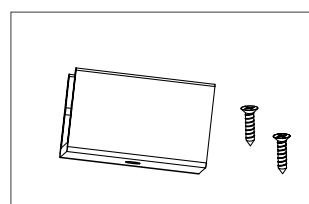
Entry cap (left outlet)  
MX-08-001698



Entry cap  
(right outlet)  
MX-08-001699

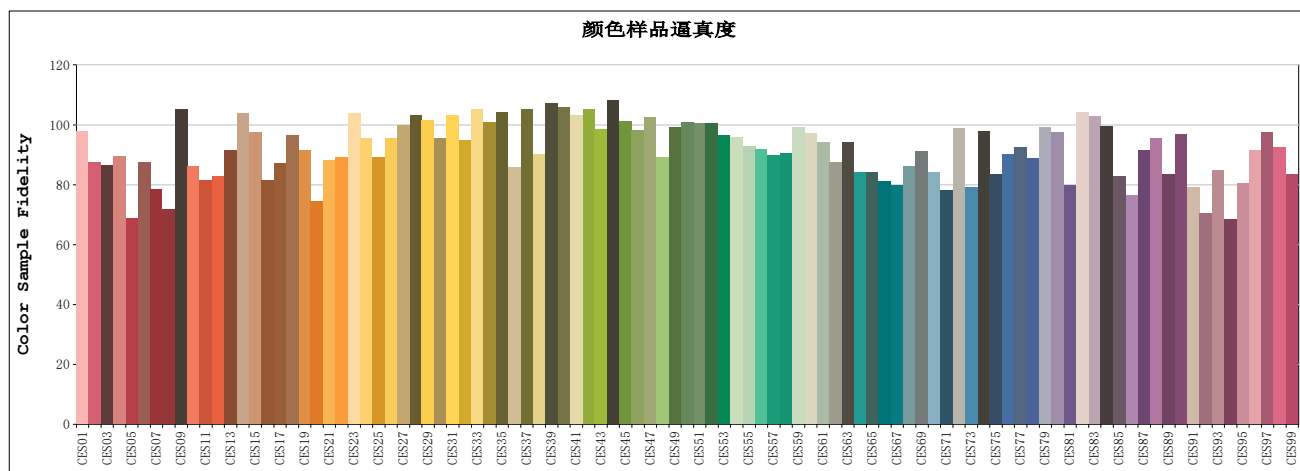
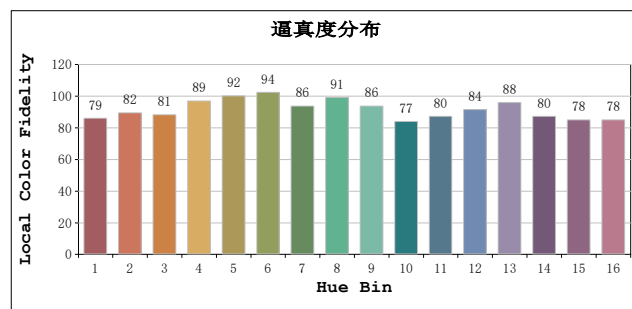
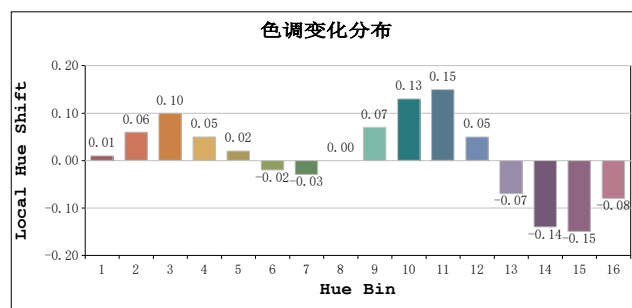
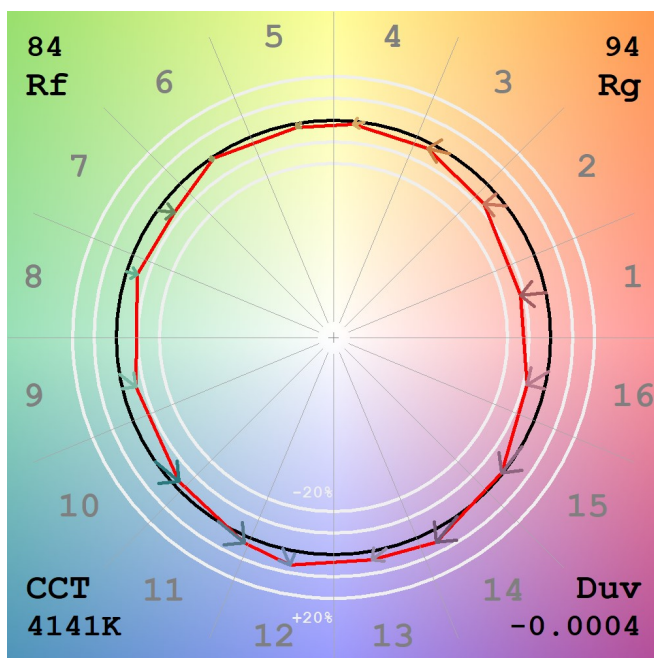
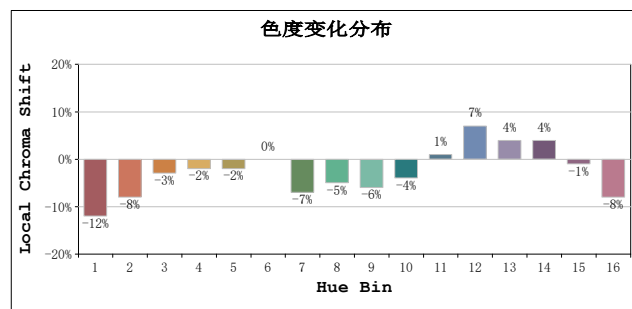
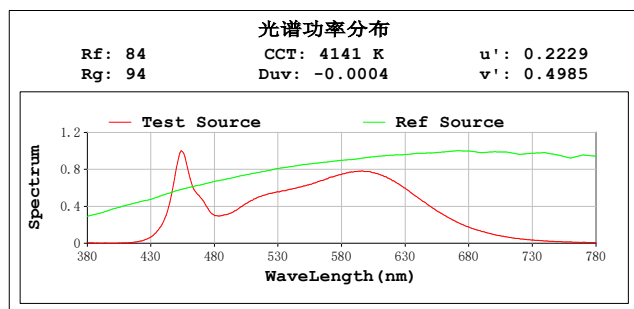


Aluminum  
Profiles  
MX-01-002766









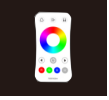





clip  
MX-01-002767

## TM30





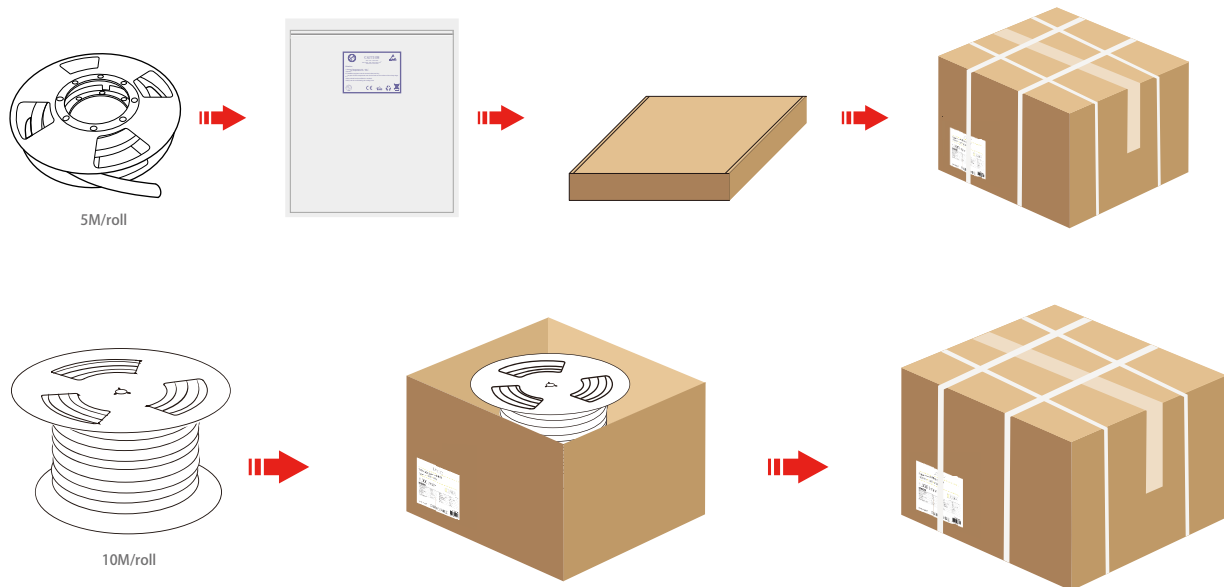
## CONTROLLER

Picture	Item	Model	Spec	Match
	Monochrome remote	MX-03-030472	Output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with Monochrome light strip
	Monotone light controller	MX-03-030322	Input voltage:12-48VDC Output current:15A@12V/24V-10A@36/48V Output Power:180W@12V-360W@24V 360W@36V-480W@48V Working temperature:Ta:-30°C~+55°C	Use with Monochrome light strip
	CCT remote	MX-03-030466	Output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with CCT light
	Color temperature controller	MX-03-030437	Input voltage :12-24VDC Output current :2CH,5A/CH Output Power :2x(120-240)W Working temperature:Ta:-30°C~+55°C	Use with CCT light
	RGB remote	MX-03-030469	Output signal :RF(2.4GHz) Working voltage :3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with RGB light
	RGB Controller	MX-03-030467	Input voltage :12-24VDC Output current :3CH,4A/CH Output Power :144-288W Working temperature:Ta:-30°C~+55°C	Use with RGB light
	RGBW remote	MX-03-030454	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:-30°C~+55°C	Use with RGBW light
	RGBW Controller	MX-03-030455	Input Voltage:12-24 VDC; Output Current:4A*4CH, Max 6A/CH; 192W/384W (12V/24V)	Use with RGBW light
	MX-03-030475	LTSA512 DMX Master Controller	Input Voltage:5V DC Power Consumption:<2W Connection way:Mini USB Internal Memory:6000 steps@512Chs Output Connector:XLR-3 Transmission Signal:DXM512 PC Software:LTECH LED player	Use with DMX Pixel light
	MX-03-030479	DMX512 to SPI Pixel Decoder	(1)5-24VDC (2)Input Signal:DMX512/RDM+RF 2.4G Output signal:pixel signal (3)Control dots:1024 (4)Compatible with 37 kinds of Driving ICs;Numeric diaplay (5)Reverse Polarity Protection.	Use with SPI Pixel light
	MX-03-030458	SPI Controller	12-24VDC Input signal:RF2.4G,WORK WITH R9 remote Output signal:SPI(TTL) Control dots:1024 Compatible with 45 kinds of Driving ICs Reverse polarity protection	Use with SPI Pixel light
	MX-03-030459	RGB/RGBW SPI remote	Output signal:RF(2.4Hz) Working voltage:3VDC(CR2032) Remote control distance:30m 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 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; 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; 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 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; IEC 60598-2-21 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; IEC 60598-2-21 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 ASTMG154-06, UVA-340 0.68W/m2 for 500 hrs
	IPX5 IPX6 IPX7 IPX8	IEC 60598-1; IEC 60598-2-21 GB-7000.1	IEC60529 IPX5/X6/ 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.)