

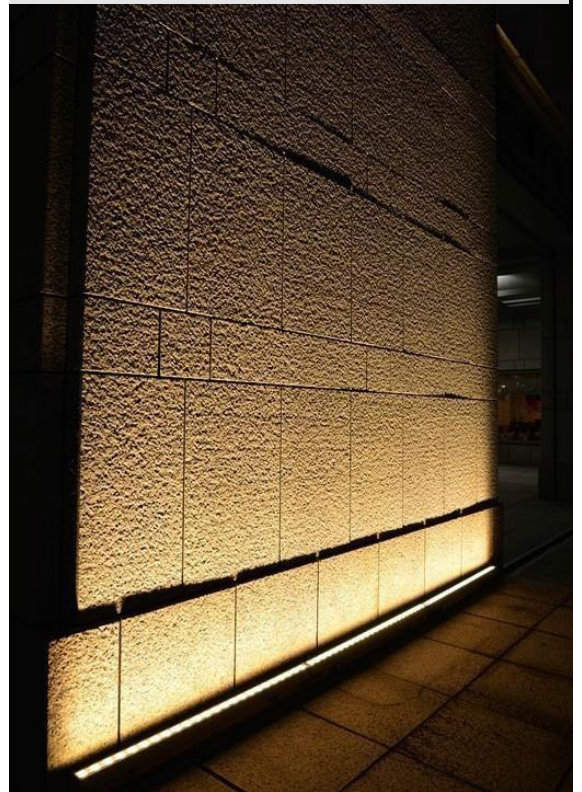
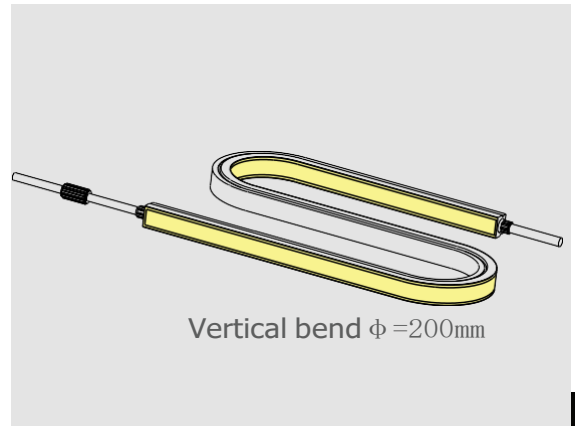
Product Specification

1811MM SMD2835 Neon Flex Led Washer



SMD2835 Neon Flex Led Washer

- Compared with the ordinary Neon strip, the structure is unique, and the light Angle can be up to 45° without alens. 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.



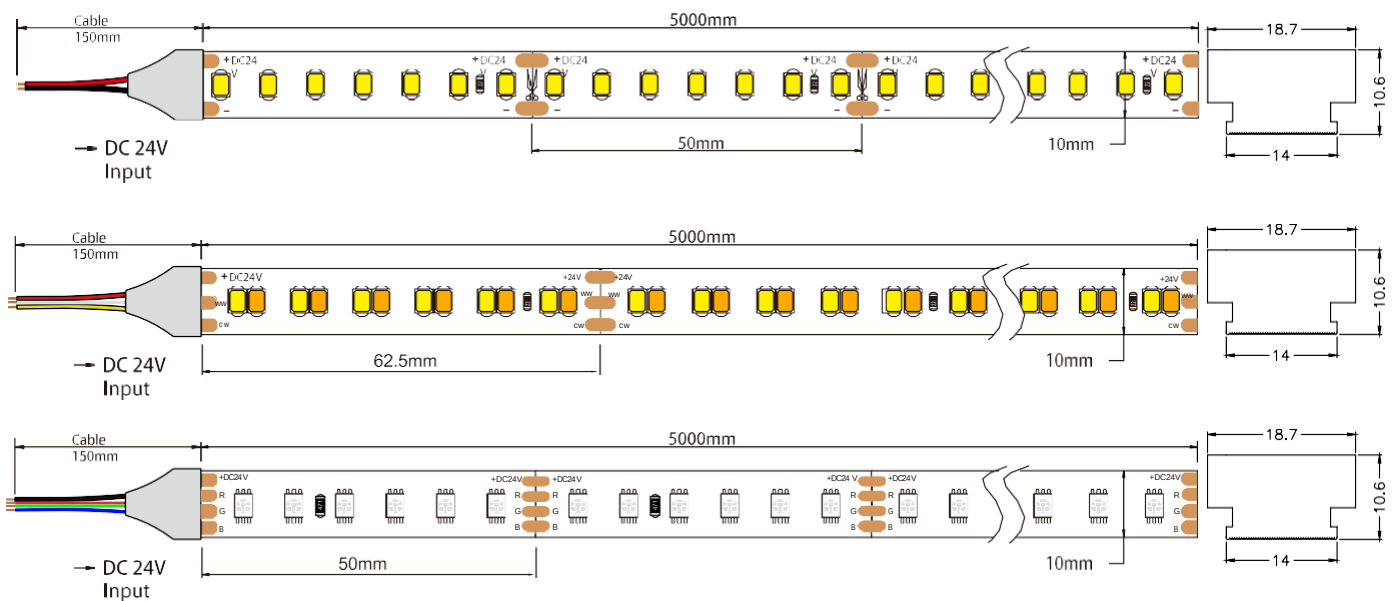
TECHNICAL SPEC

Series	ItemCode	Input voltage	CCT/	Lm/M	Lm/ft	Lm/W	Angle	IPRating	Min. cut
	MF328V140Q80-D027A6A10107N-1811ZA	24V	2700k	1665	508	116	45°	IP67	50mm
	MF328V140Q80-D030A6A10107N-1811ZA	24V	3000k	1760	537	122	45°	IP67	50mm
	MF328W140Q80-D040A6A10107N-1811ZA	24V	4000k	1850	564	128	45°	IP67	50mm
	MF328W140Q80-D050A6A10107N-1811ZA	24V	5000k	1850	564	128	45°	IP67	50mm
	MF328W140Q80-D065A6A10107N-1811ZA	24V	6500k	1850	564	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

LEDType:	2835 LED
ColorRenderingIndex:	80
BeamAngle:	45°
OperatingAmbient temperatureTa:	-20-45°C[-4~113°F]

InputCurrent/m:	0.6A
Voltage:	24V
Power/M:	Monochrome:14.4W CCT:20W RGB:14.4W
LED/M :	Monochrome:140LED CCT:192LED RGB:120LED

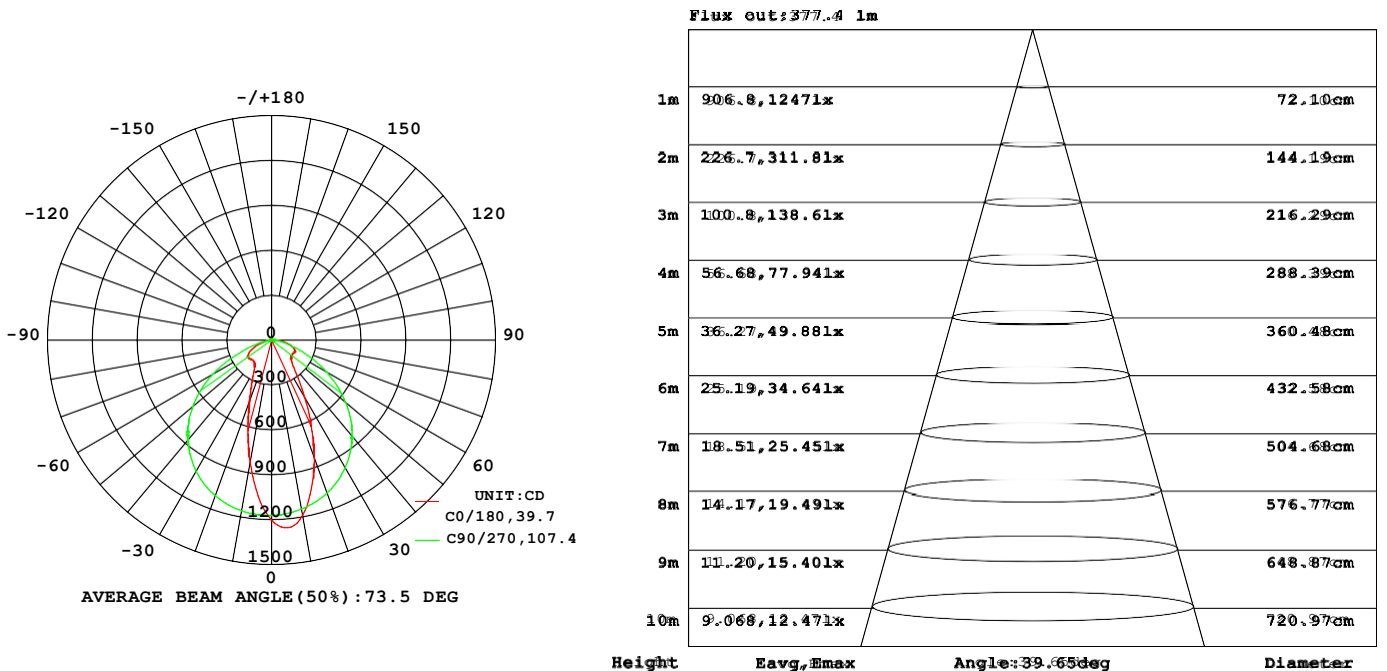
Drawing



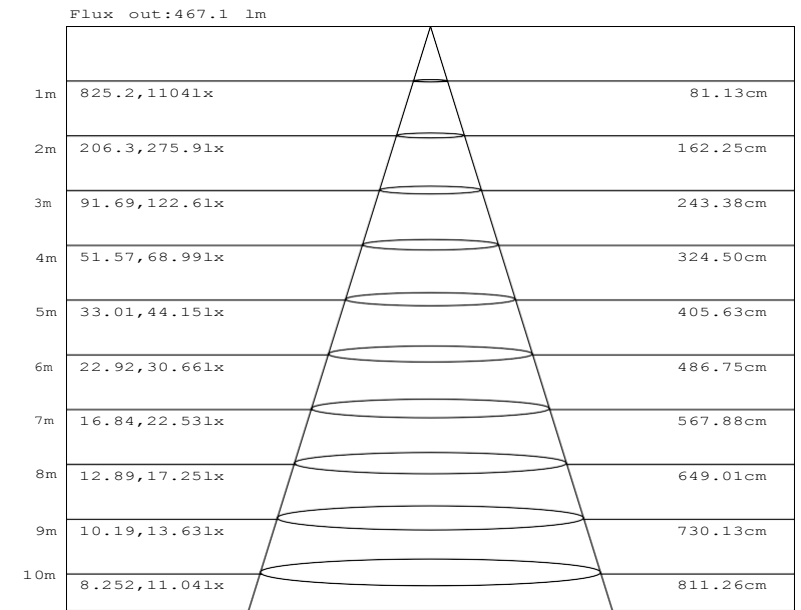
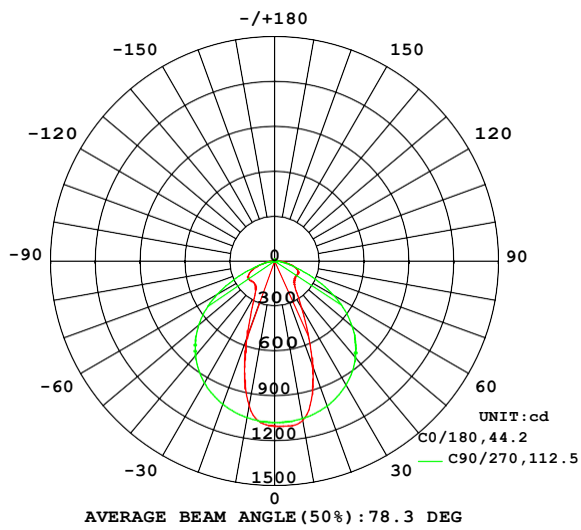
ELECTRICAL WIRING COLOR CODES

● MONOCOLOR		
● CCT		
○ SPI		
● RGB		
○ RGBW		
○ DMX		

Monochrome IES DATA

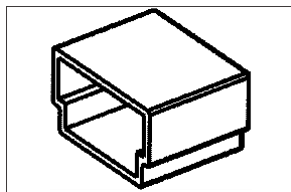


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

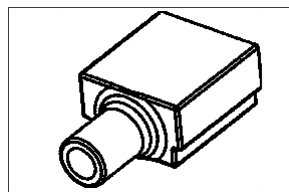


Height Eavg, Emax Angle: 44.16deg Diameter
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

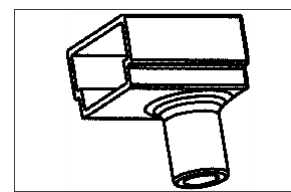
Product accessories



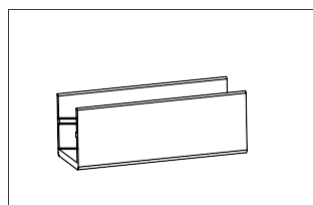
End cap
MX-08-001754
001752



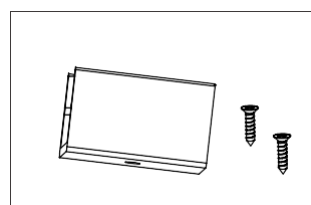
Entry cap (front)
MX-08-



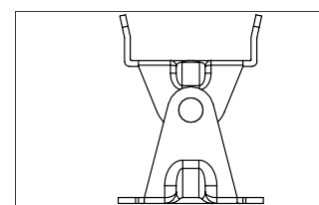
Entry cap (bottom)
MX-08-001753



Aluminum
Profiles
MX-01-002867

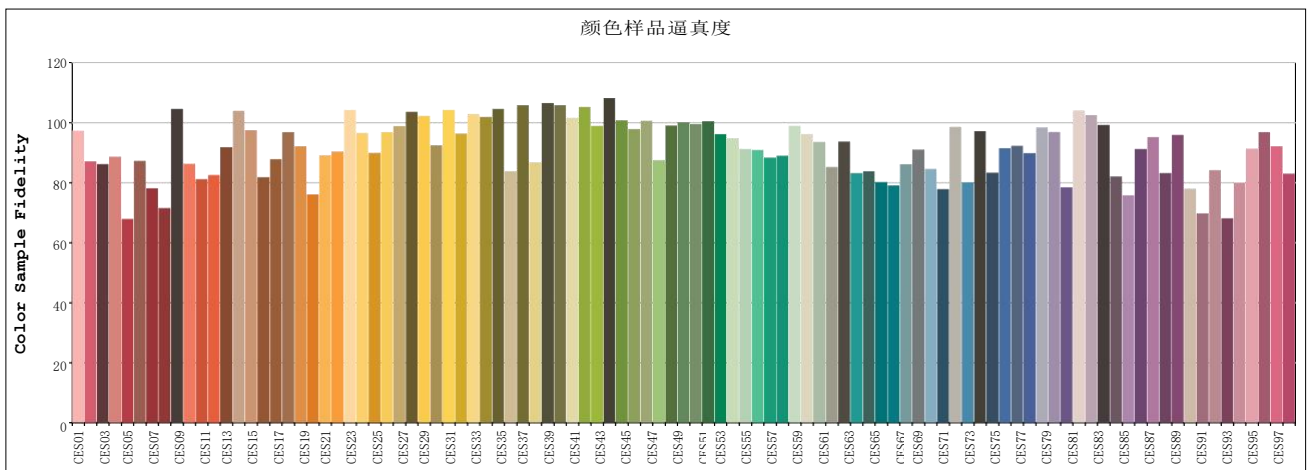
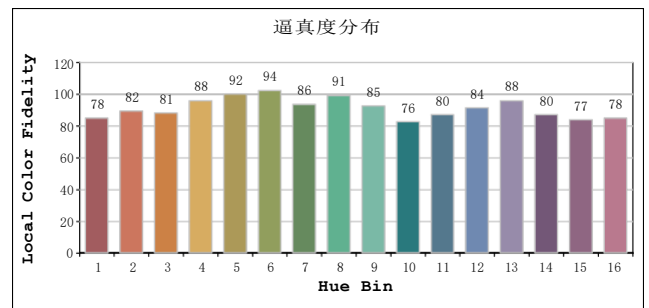
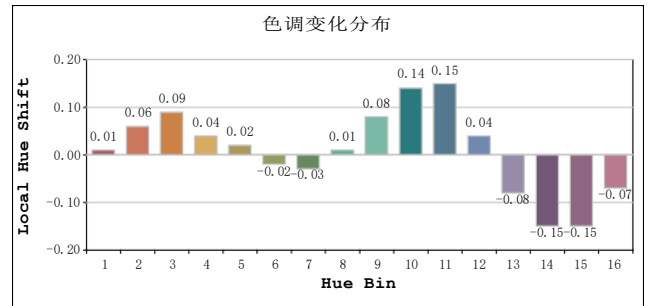
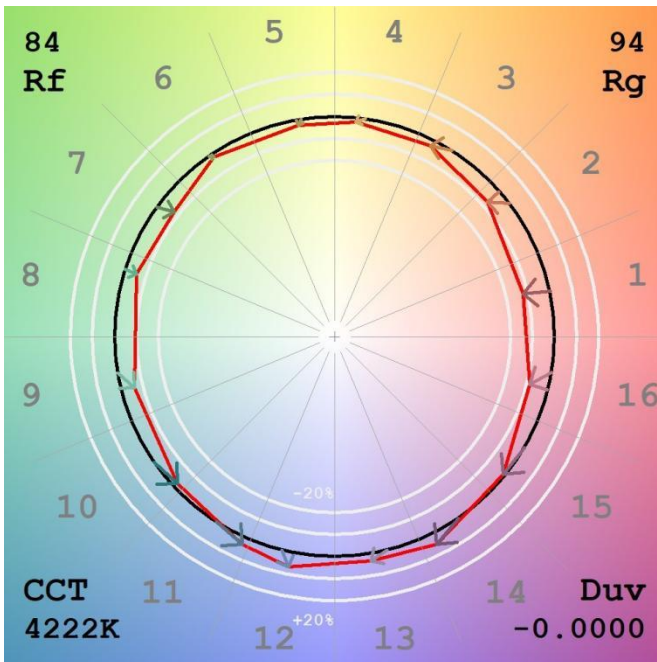
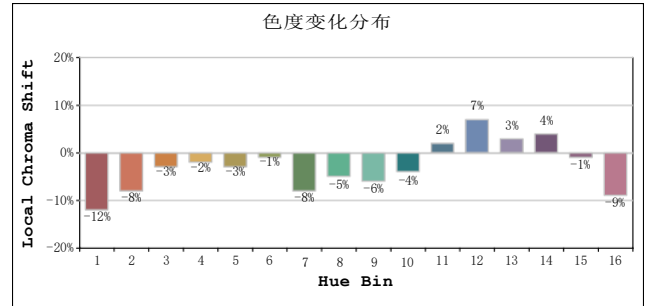
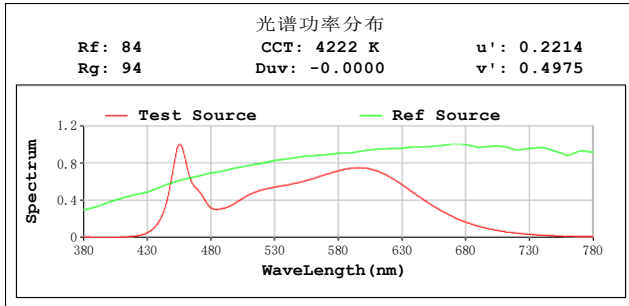


Clip
MX-01-002868



Adjustable support
MX-01-002855

TM30



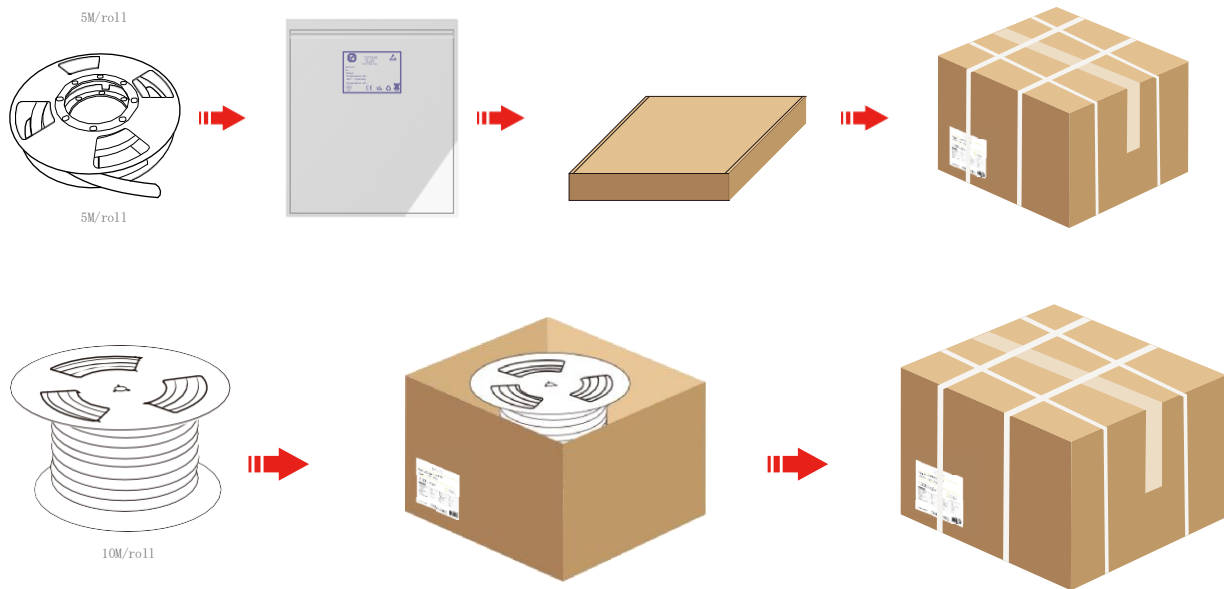
CONTROLLER

Picture	Item	Model	Spec	Match
	Monochrome remote	RL-03-030472	Output signal:RF (2.4GHz) Working voltage:3VDC (CR2032) Remote control distance:30m Working temperature:Ta:-30℃~+55℃	Use with Monochrome light strip
	Monochrome light controller	RL-03-030322	Input voltage:12-48VDC Output current:15A@12/24V-10A@36/48V Output Power:180W@12V-360W@24V 360W@36V-480W@48V Working temperature:Ta:-30℃~+55℃	Use with Monochrome light strip
	CCT remote	RL-03-030466	Output signal:RF (2.4GHz) Working voltage:3VDC (CR2032) Remote control distance:30m Working temperature:Ta:-30℃~+55℃	Use with CCT light
	Color temperature controller	RL-03-030437	Input voltage :12-24VDC Output current :2CH, 5A/CH Output Power :2x (120-240)W Working temperature:Ta:-30℃~+55℃	Use with CCT light
	RGB remote	RL-03-030469	Output signal :RF (2.4GHz) Working voltage :3VDC (CR2032) Remote control distance:30m Working temperature:Ta:-30℃~+55℃	Use with RGB light
	RGB Controller	RL-03-030467	Input voltage :12-24VDC Output current :3CH, 4A/CH Output Power :144-288W Working temperature:Ta:-30℃~+55℃	Use with RGB light
	RGBW remote	RL-03-030454	output signal:RF (2.4GHz) Working voltage:3VDC (CR2032) Remote control distance:30m Working temperature:-30℃~+55℃	Use with RGBW light
	RGBW Controller	RL-03-030455	Input Voltage:12-24 VDC; Output Current:4A*4CH, Max 6A/CH; 192W/384W (12V/24V)	Use with RGBW light
	RL-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:DMX512 PC Software:LTECH LED player	Use with DMX Pixel light
	RL-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 display (5)Reverse Polarity Protection	Use with SPI Pixel light
	RL-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℃~+55℃	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
	Bending Test Vertical	RL	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	RL	COB/CSP 500 / SMD 1000. cycles
	Swing Test	UL2388	UL2388, >750 cycles
MECHANICS & PHYSICE TESTING	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 times drig 1 sec. Mark displacement ≤ 2mm.
	Twist Test	RL	Manufacturer-defined, >200 cycles in 720°
	Curl test	RL	Back and forth 80-100 times
	IK06-08-10	IEC62262	IEC62262 The hammer spring Impact energy 0.7J
	Adhesion test	JB1256-77	3M VHB5952 hung on 2kg loads >7 hs.
	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℃ ±2℃), and 10 times after (-15℃ ±2℃, 16h).
	Electrical strength	IEC 60598-1; IEC 60598-2-21 GB-7000.1	500V
	Product accessories disassembly test	RL	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 hs. 60℃, 85%RH, Test light decay data<3%
	Temperature Shock Test	IEC60068	Manufacturer-defined, -40℃-60℃ (typical temperature range) 168H
	switch test	GB/T24824-2009	30s On, 30s Off, 15000 times; on/off every 30S, > 15000 cycles
	Lifetime aging test	RL	Normal temperature 25℃
	Constant Temperature Test	RL	Manufacturer-defined, 60℃ to -40° (typical temperature)
	Cold Bend Test	IEC 60598-1; IEC 60598-2-21 GB-7000.1	wound on mandrel, low-temperature (-15℃ ±2℃, 16h), around the mandrel for two turns
	Cold Impact test	IEC 60598-1; IEC 60598-2-21 GB-7000.1	Low-temperature (-15℃ ±5℃, 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 flexible 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 DC 24V 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 flights, in the use of force cannot 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.)