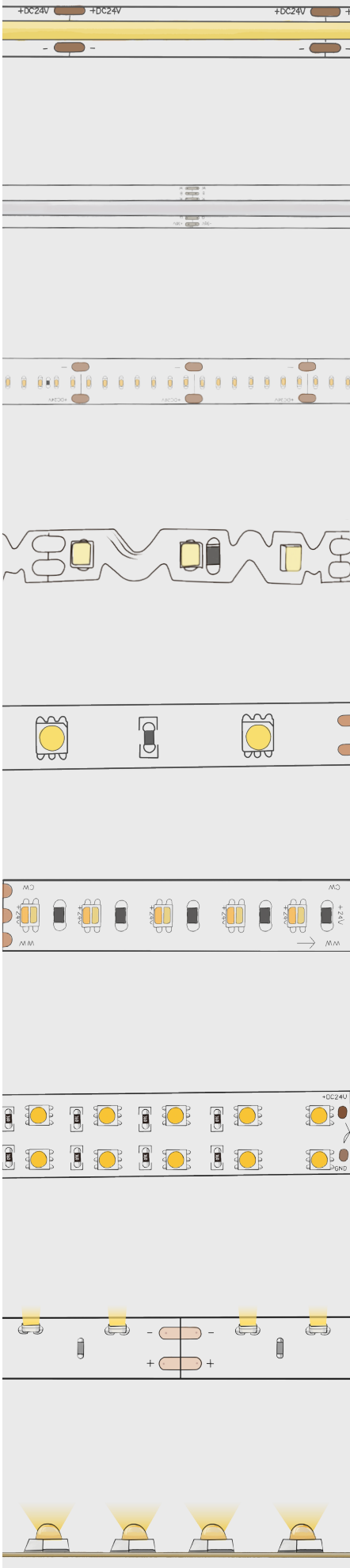
MINGXUE LIGHTING

Product Specification

SMD5050 60LED WALL WASHER



E-mail: info@mingxue.cn

Tel: +86-755-27637866

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

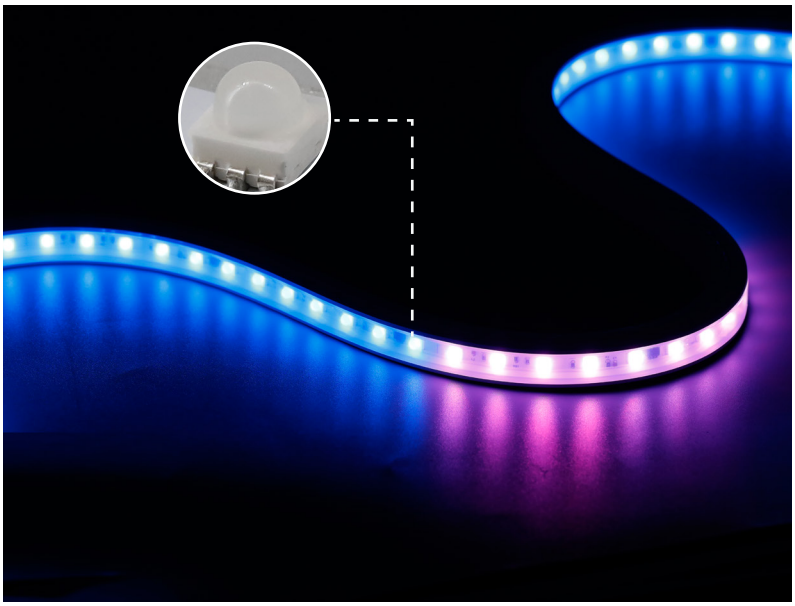
Factory:Building 9 &10， WanYang park ,baoyong industry road No 8 , west area baoyong industry zone,longjiang town,Shunde District, Foshan city.

www.mingxueled.com

SMD5050 60LED WALL WASHER

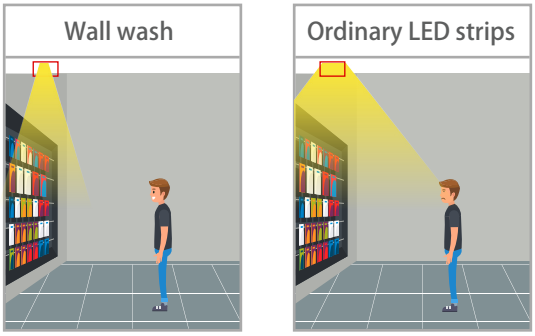
- Use 5050 lens LED lamp beads,Effectively improve the illumination value;
- Compare to standard strip,it′ s concentrated lighting and longer irradiation distance with higher utilization efficiency and higher center illumination under the same luminous flux;
- Optimize the structure design and improve the optical efficiency. The material is resistant to flame retardant and UV;
- Can do different versions of RGB SPI /DMX white light;
- 5M/roll, can also cut as required length;
- Can reach IP65 protection level,used indoors and outdoors.

24V DC | IP Rate IP65 | CE | RoHS | c UL us LISTED | LM-80 | 5 YEARS WARRANTY



Accent Lighting:Wall Washing VS.Ordinary LED strips

Wall washing is a kind of lighting optical technology, the lamp is placed in a certain position from the wall, from top to bottom evenly illuminate the wall.Secondary optical angles are used to produce a smooth "wash" effect that emphasizes vertical surfaces and makes smaller Spaces feel larger.Ordinary conventional light strips are range lit without an Angle design.



TECHNICAL SPEC

Series	Item Code	Input voltage	CCT/K	Ra	Power	Lm/m	Lm/ft	LM/W	Angle	CD	IP Rating	Min cut	IC/Pixel Segment & Address QTY
RGB SPI Series	MF35LA060Q00-D000D6F10106S	24V	RGB	N/A	13.5	446	136	33	60°	305	IP65	100mm	10 Pixel/M
RGB Series	MF35LA060A00-D000J1F10106N	24V	RGB	N/A	16	496	151	31	45	365	IP20	100mm	N/A
RGB SPI Series	MF35LA060A00-D000J1F10106S	24V	RGB	N/A	13.5	405	125	30	45°	290	IP20	100mm	10 Pixel/M
SPI white Series	MF35LW060A80-D040C1F10106S	24V	4000K	>80	13.5	1350	412	100	38°	1290	IP20	100mm	10 Pixel/M
White Series	MF35LW060Q80-D040B1F10106N	24V	4000K	>80	15	1485	453	99	38°	1420	IP65	100mm	N/A
	MF35LW060A00-D040A1F10106N	24V	4000K	>80	15	1500	457	100	38°	1440	IP20	100mm	N/A

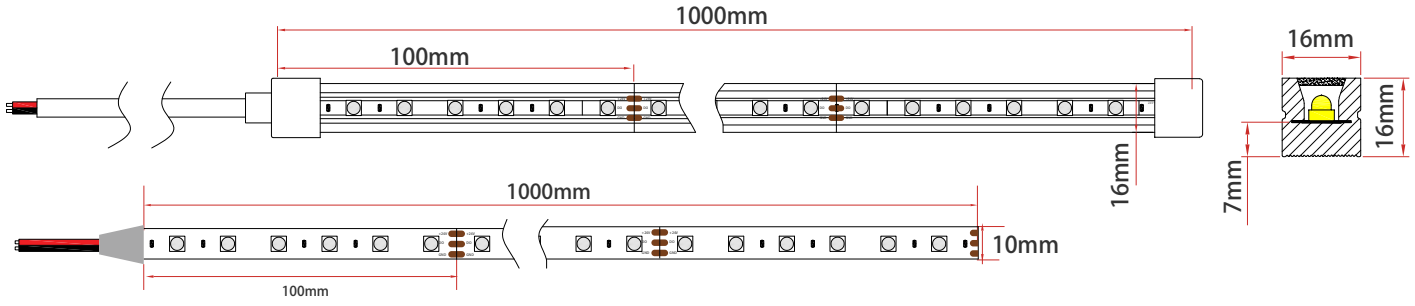
LED Type :	5050 Lens LED
Color Rendering Index:	>80
Lighting Angle:	38°/45°
Operating Ambient temperature Ta:	-20-45°C[-4~113°F]
LED QTY:	60LED/M

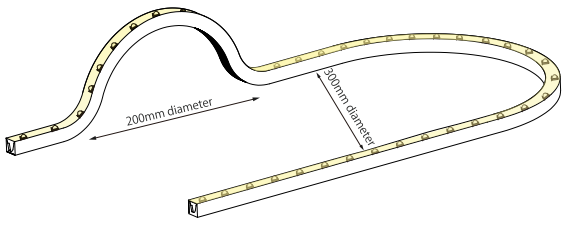
Input Current/m:	0.62A(0.18A/ft)
Static Electricity:	1000V (ESD)
Warranty:	3years
Lifespan :	50,000H
Max.Length (L) Power fed on the side)	5M [16.4ft]

Notice:

1. Luminous flux or CCT 2700K is 10% lower, or CCT 3000/3500K is 5% lower, for CCT 5000K/ 6500K is the some, compared with 4000K.
2. Energy efficiency dass of regulation (EU)201 9/2020 is E(CRI80) for 4000K and F(CRI80) for CCT, it waries depending on CRI and CCT.
3. Applying with extra heat sink is not necessary with sel-cooing capacity.
4. 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 domaged.

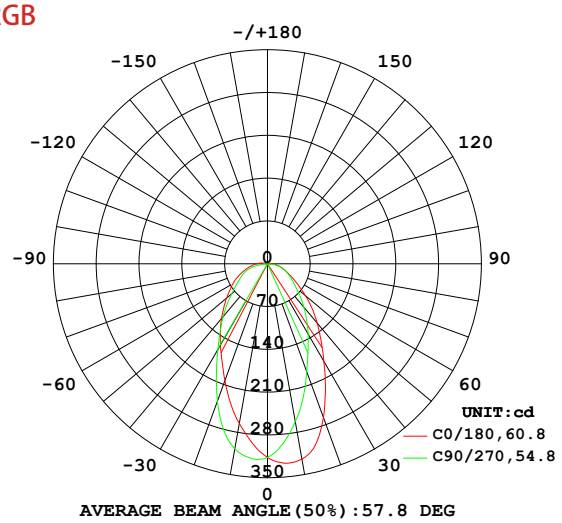
CABLE ENTRY METHOD



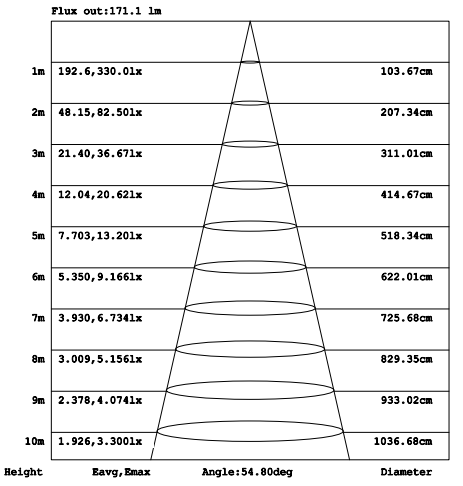


IES DATA

RGB

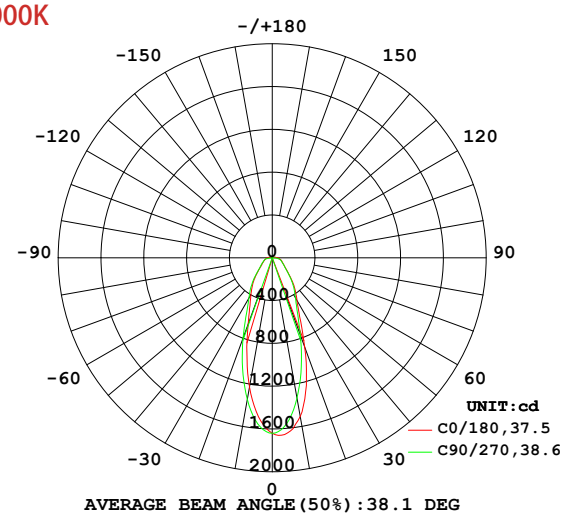


AVERAGE BEAM ANGLE(50%):57.8 DEG

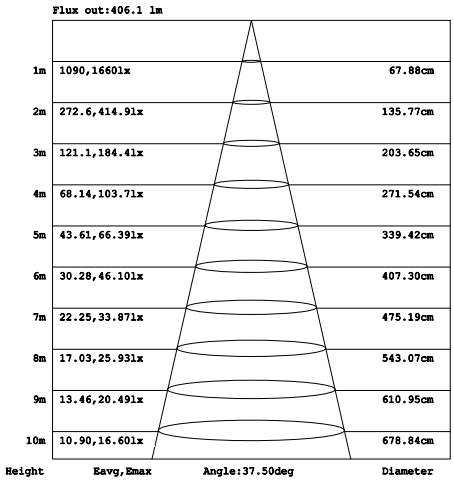


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

4000K

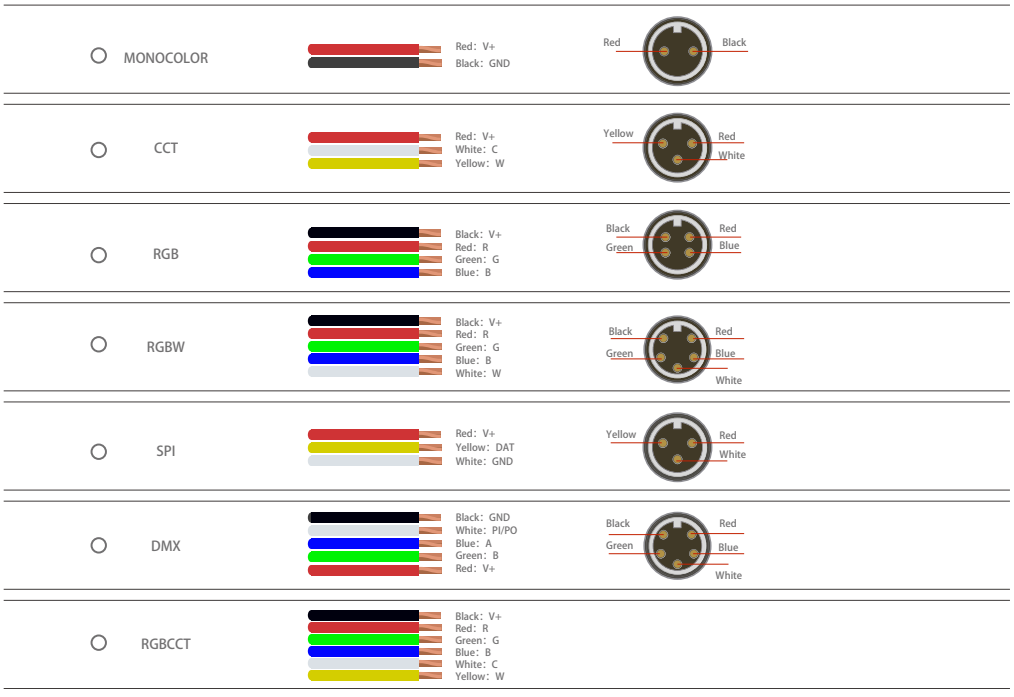


AVERAGE BEAM ANGLE(50%):38.1 DEG

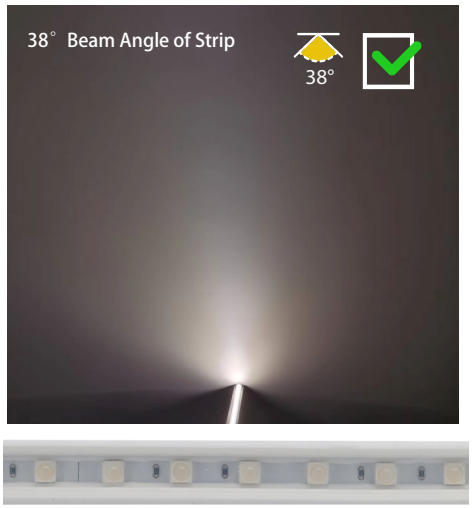


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

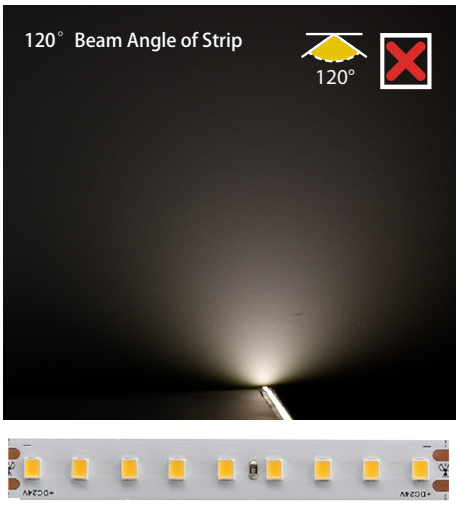
ELECTRICAL WIRING COLOR CODES



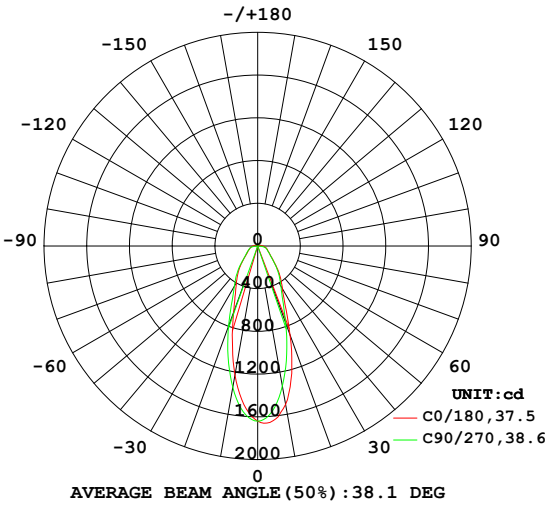
Comparsion

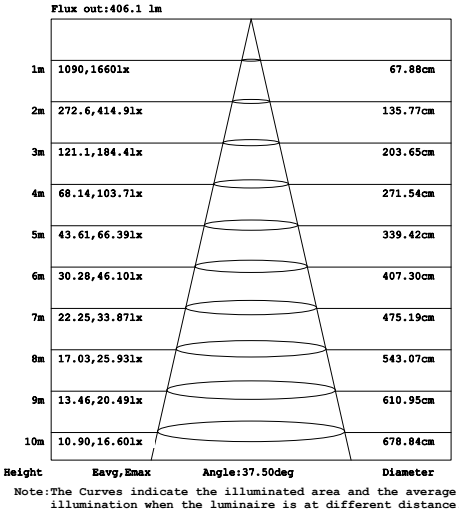


(For accent and wall grazing lighting)

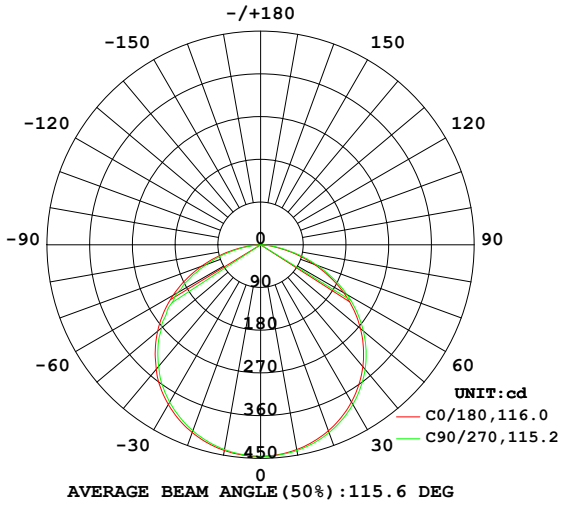


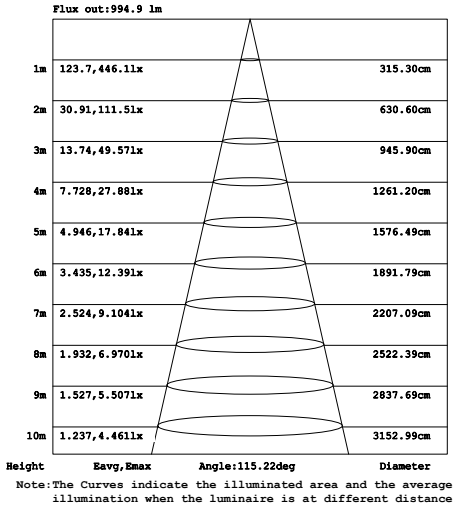
(For general and ambinent lighting)





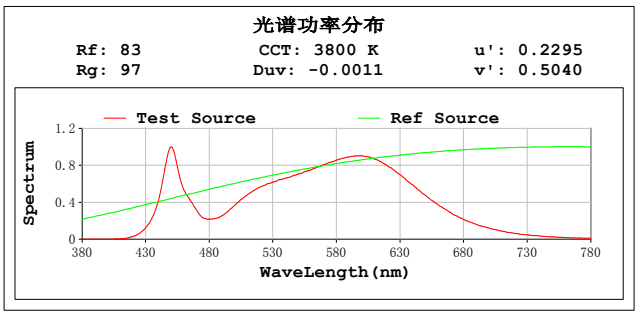
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

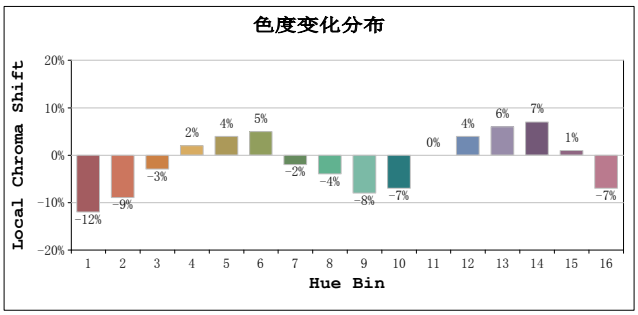


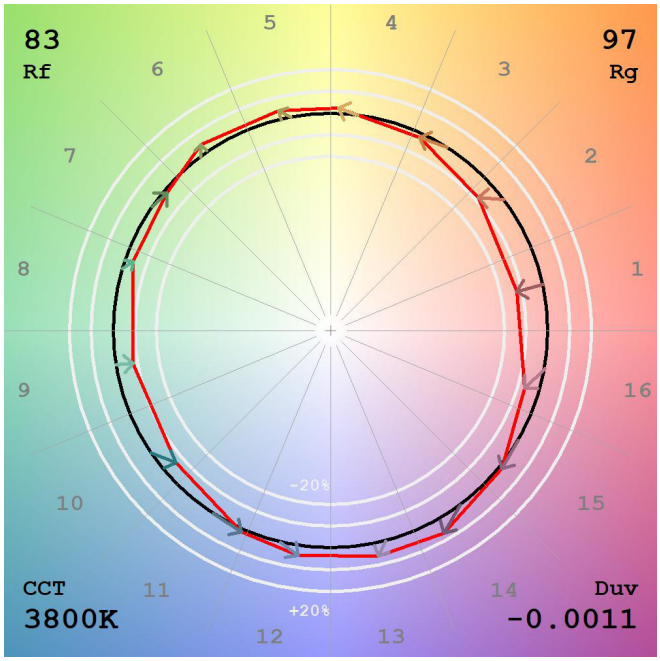


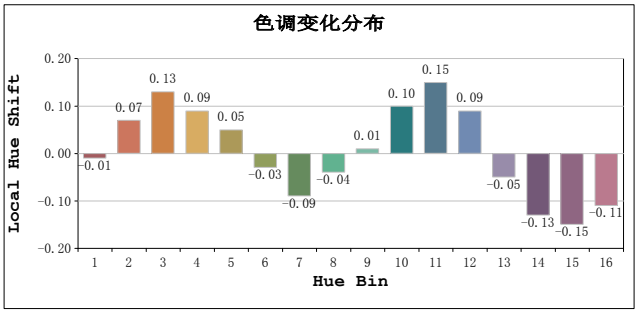
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

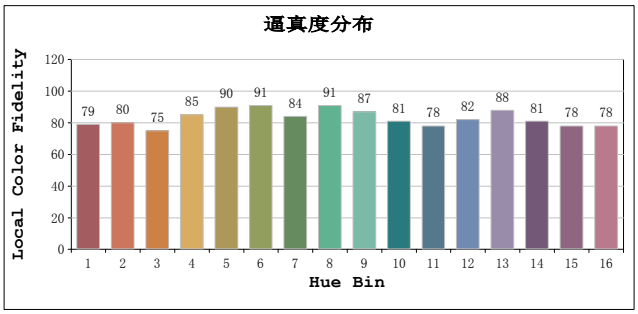
TM30

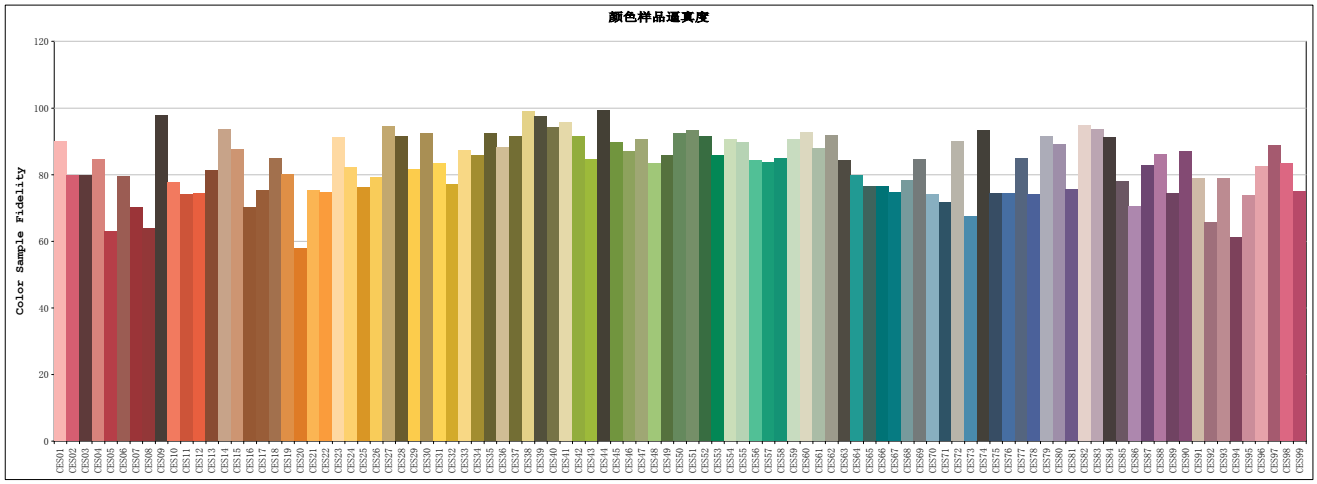

光谱功率分布
Rf: 83
Rg: 97
CCT: 3800 K
Duv: -0.0011
u': 0.2295
v': 0.5040
Test Source
Ref Source
Spectrum
WaveLength(nm)


色度变化分布
Local Chroma Shift
Hue Bin

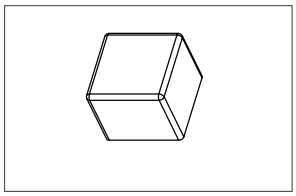

83
Rf
97
Rg
CCT
3800K
Duv
-0.0011


色调变化分布
Local Hue Shift
Hue Bin

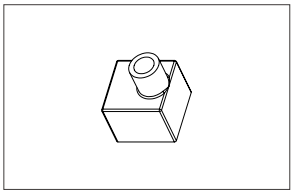

逼真度分布
Local Color Fidelity
Hue Bin


颜色样品逼真度
Color Sample Fidelity

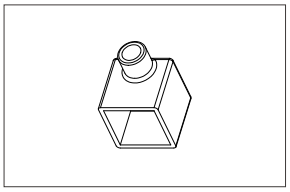
Installation



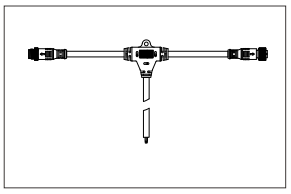
End cap
MX-08-001331



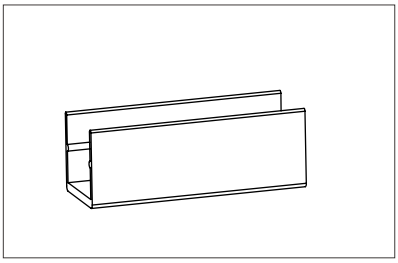
Entry cap (front)
MX-08-001328



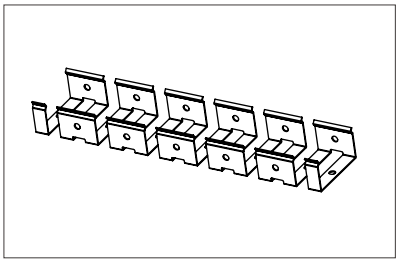
Entry cap (side)
MX-08-001329



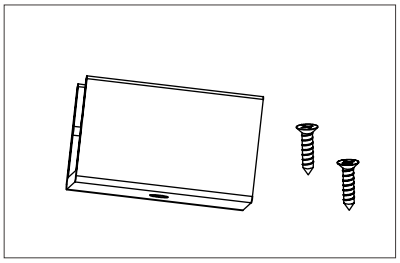
T type connector
MX-04-005335



Aluminum Profiles
MX-01-002361

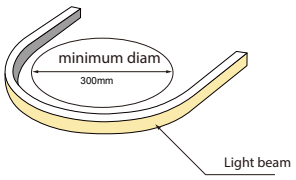


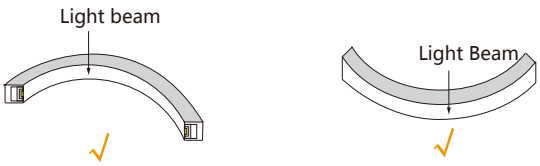
S shape Aluminum Profiles
MX-01-002293

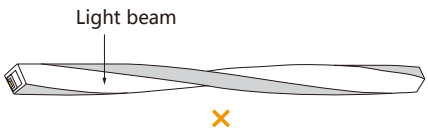


clip
MX-01-002238

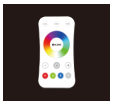
Bend instruction







CONTROLLER

Picture	Item	Model	Spec	Match
	DMX Master (Stand Alone Controller)	MX-03-030495	Working with PC/Stand Alone Output:8 outports × Max 512 pixels Can not extend more controllers Software: MR Player	DMX512 strip
	SPI Salve Contoller	MX-03-030496	Working with PC/Stand Alone Output:8 outports × Max 512 pixels	SPI strip
	DMX Salve Contoller	MX-03-030501	Working with PC/Stand Alone Output:8 outports × Max 512 pixels	DMX512 strip
	Monochrome remote	MX-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
	Monotone light controller	MX-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
	RGB remote	MX-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 Contoller	MX-03-030467	Input voltage :12-24VDC Output current :3CH,4A/CH Output Power :144-288W Working temperature:Ta:-30℃-+55℃	Use with RGB 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 Prodection.	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℃-+55℃	Use with SPI Pixel light

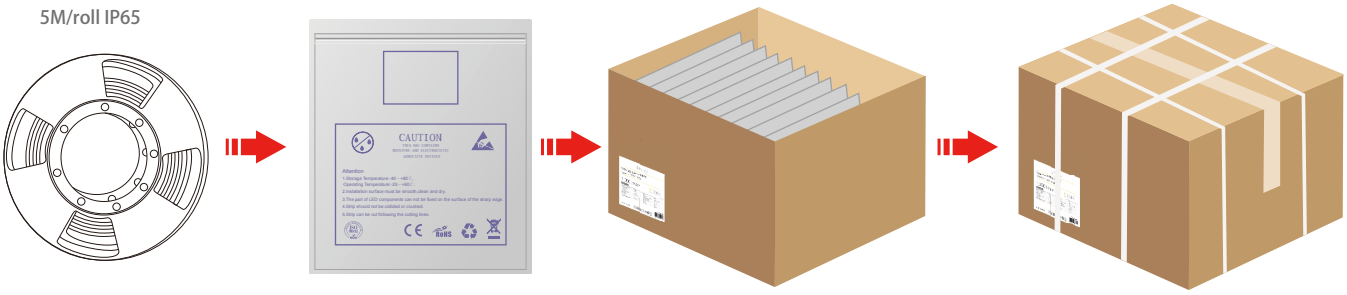
RELIABILITY TEST OF IIGHT

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 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; IEC 60598-2-21； GB-7000.1	φ150mm 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	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℃, 85%RH ,Test light decay data<3%
	Temperature Shock Test	IIEC60068	Manufacturer-defined,-40℃-60℃(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℃
	Constant Temperature Test	Mingxue	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

5M/roll IP20

5M/roll IP65



SATETY 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 mudules 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 nun-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.)