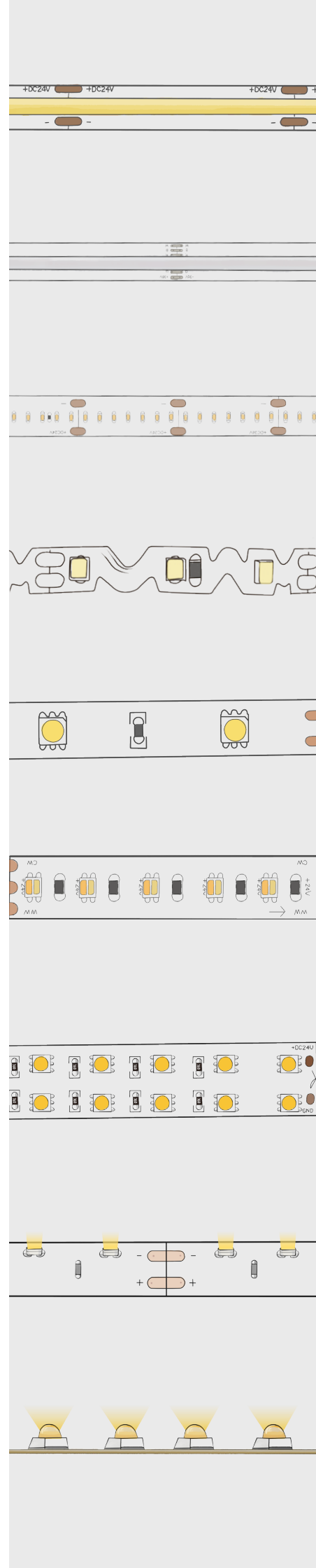




# Product Specification

## Blazer Wallwasher LED Strip



www.mingxueled.com

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

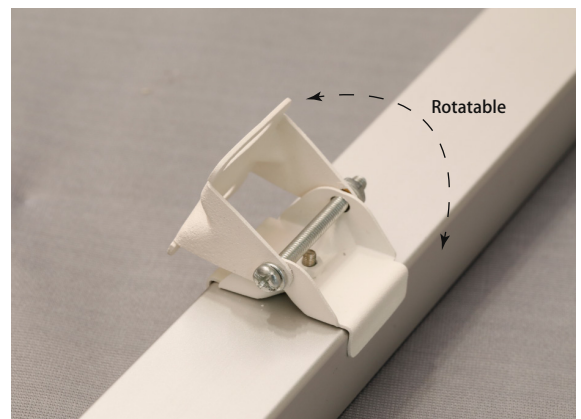
Tel: +86-755-27637866

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.










## Blazer Wallwasher LED Strip

- Can be bent vertically and horizontally;
- 10°/60° /20°/30° /30° /45° /60° Lens for multiple angles;
- High light effect 3535 LED can be white light /DMX mono/ DMX RGBW version;
- Using constant current IC design, IP67 waterproof;
- Complete clip accessories, bracket, aluminum channel, flexible bracket, outdoor special equipment and rotatable;
- Bending and twisting more gentle, smaller volume, large volume, light weight;
- Soft bend flexibility, strong impact resistant, high tear resistance and high weather resistance;
- 50,000 hours of life with a 5-year warranty.



Smart control,  
change color as your mind

## Technical Spec

Series	Item Code	Voltage	CCT	Power	Ra	Lm/m	Lm/ft	Lm/W	CD	Angle	LED Quantity
DMX RGBW	MF355Z024Q80-J040W6F22106X	24V	 RGBW	24W	N/A	672	205	28	1350	20*55	3535 24/M
		24V	 RGBW	24W	N/A	912	278	38	2600	20*30	3535 24/M
		24V	 RGBW	24W	N/A	792	241	33	1100	45*45	3535 24/M
DMX Mono color	MF355W024Q80-J040W6F22106X	24V	 2700K 3000K 4000K 6500K	24W	80	1152	351	48	2720	20*55	3535 24/M
		24V	 2700K 3000K 4000K 6500K	24W	80	1512	461	63	4720	20*30	3535 24/M
		24V	 2700K 3000K 4000K 6500K	24W	80	1392	424	58	1635	45*45	3535 24/M
Mono Color	MF355W024Q80-J040G6F22106N	24V	 2700K 3000K 4000K 6500K	22W	80	1056	322	48	2270	20*55	3535 24/M
		24V	 2700K 3000K 4000K 6500K	22W	80	1320	402	60	4240	20*30	3535 24/M
		24V	 2700K 3000K 4000K 6500K	22W	80	1210	369	55	1470	45*45	3535 24/M

Notice: The maximum connection length for single-ended power supply is 5 meters.  
 Above spec is based on 4000K, Gary silicone wall washer test.
















LED Type :	3535 LED	Input Current/m:	0.9~1.05A(0.27~0.32A/ft)
Color Rendering Index:	Ra>80	Static Electricity:	1000V (ESD)
Beam Angle:	20*30°/20*55°/45°	Warranty:	5years
Operating Ambient temperature Ta:	-20~45°C[-4~113°F]	Lifespan :	50,000H
Pixel Segment& Address QTY:	4Pixel/M	Product length:	Customize the length in units of 250mm

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.

## Extrusion material comparison

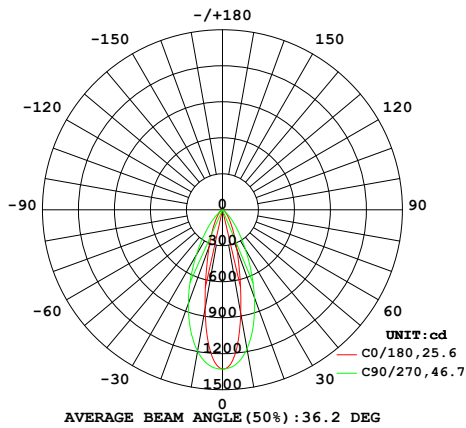
Note: Please refer to the instruction manual for electronic parts

compared item	silicone	PVC	PU
UV/ yellowing resistance	★★★★★	★★★☆☆	★★★☆☆
High temperature resistance (ambient)	 250°C	 80°C	 80°C
Low temperature resistance (ambient)	 -50°C	 -20°C	 -20°C
Enviromental protection	★★★★★	★★★☆☆	★★★★★
Adsorbability	★★★★★	★★★☆☆	★★★☆☆
Formaldehyde resistance			
Strong acid resistance	★★★★★	★★★☆☆	★★★★★
Strong alkali resistance	★★★★★	★★★☆☆	★★★☆☆
Heat dissipation			
Color temperature consistency			
Tensile strength	★★★★★	★★★★★	★★★☆☆

Note: Please refer to the instruction manual for electronic parts



## IES Data

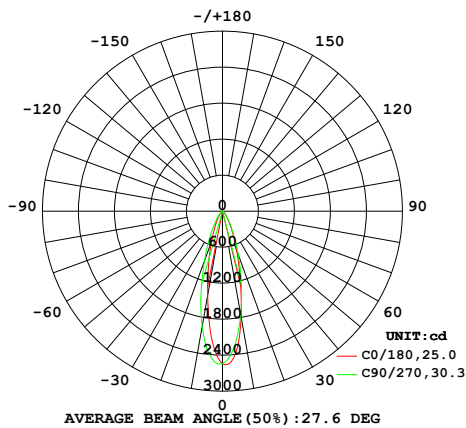


Flux out: 172.1 lm

Height	Eavg, Emax	Angle: 25.63deg	Diameter
1m	1028, 1367lx		45.50cm
2m	256.9, 341.9lx		91.00cm
3m	114.2, 151.9lx		136.50cm
4m	64.22, 85.47lx		182.00cm
5m	41.10, 54.70lx		227.51cm
6m	28.54, 37.98lx		273.01cm
7m	20.97, 27.91lx		318.51cm
8m	16.06, 21.37lx		364.01cm
9m	12.69, 16.88lx		409.51cm
10m	10.28, 13.67lx		455.01cm

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

Wallwasher DMX RGBW 10X60 Lens

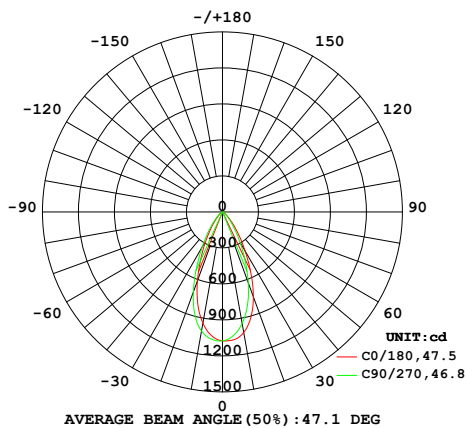


Flux out: 302.6 lm

Height	Eavg, Emax	Angle: 24.99deg	Diameter
1m	1807, 2617lx		44.33cm
2m	451.7, 654.2lx		88.65cm
3m	200.8, 290.8lx		132.98cm
4m	112.9, 163.6lx		177.31cm
5m	72.27, 104.7lx		221.64cm
6m	50.19, 72.69lx		265.96cm
7m	36.87, 53.41lx		310.29cm
8m	28.23, 40.89lx		354.62cm
9m	22.31, 32.31lx		398.95cm
10m	18.07, 26.17lx		443.27cm

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

Wallwasher DMX RGBW 20x30 Lens



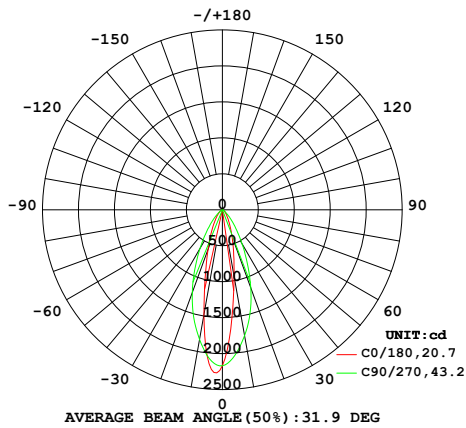
Flux out: 407.4 lm

Height	Eavg, Emax	Angle: 45.55deg	Diameter
1m	719.8, 1106lx		83.98cm
2m	180.0, 276.4lx		167.96cm
3m	79.98, 122.8lx		251.94cm
4m	44.99, 69.10lx		335.91cm
5m	28.79, 44.22lx		419.89cm
6m	19.99, 30.71lx		503.87cm
7m	14.69, 22.56lx		587.85cm
8m	11.25, 17.27lx		671.83cm
9m	8.887, 13.65lx		755.81cm
10m	7.198, 11.06lx		839.78cm

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

Wallwasher DMX RGBW 45X45 Lens

IES Data

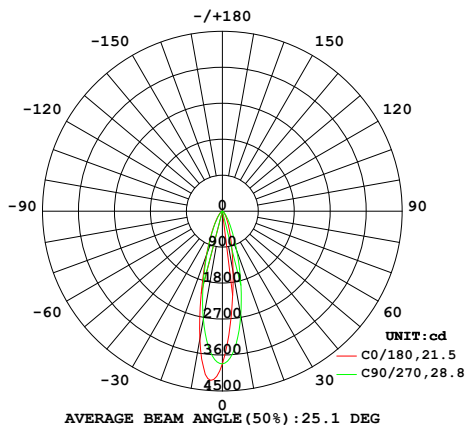


Flux out:197.3 lm

Height	Eavg, Emax	Angle:20.72deg	Diameter
1m	1662,2276lx		36.97cm
2m	415.4,569.0lx		73.14cm
3m	184.6,252.9lx		109.70cm
4m	103.9,142.2lx		146.27cm
5m	66.47,91.04lx		182.84cm
6m	46.16,63.22lx		219.41cm
7m	33.91,46.45lx		255.97cm
8m	25.97,35.56lx		292.54cm
9m	20.52,28.10lx		329.11cm
10m	16.62,22.76lx		365.68cm

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

Wallwasher white 10x60 Lens

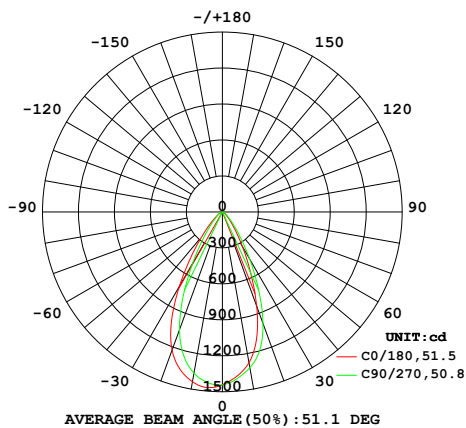


Flux out:346.8 lm

Height	Eavg, Emax	Angle:21.54deg	Diameter
1m	2922,4176lx		38.05cm
2m	730.5,1044lx		76.10cm
3m	324.7,464.0lx		114.15cm
4m	182.6,261.0lx		152.20cm
5m	116.9,167.0lx		190.24cm
6m	81.16,116.0lx		228.29cm
7m	59.63,85.23lx		266.34cm
8m	45.65,65.25lx		304.39cm
9m	36.07,51.56lx		342.44cm
10m	29.22,41.76lx		380.49cm

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

Wallwasher white 20x30 Lens



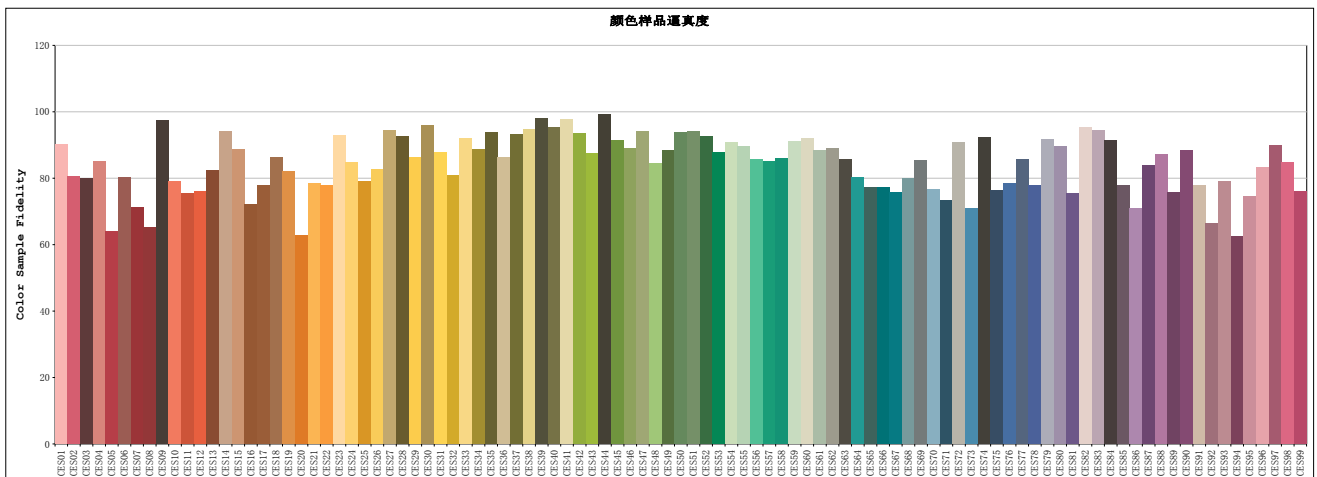
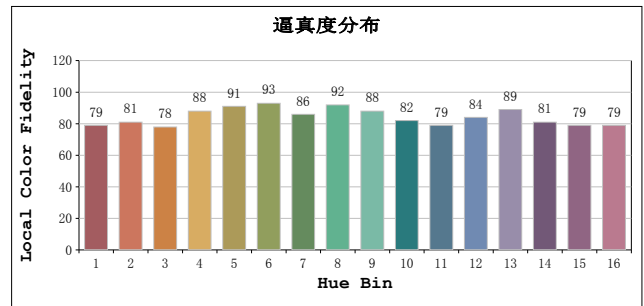
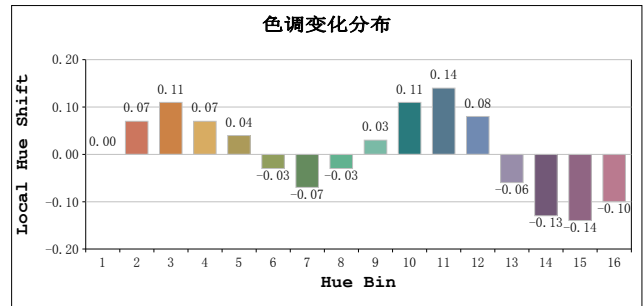
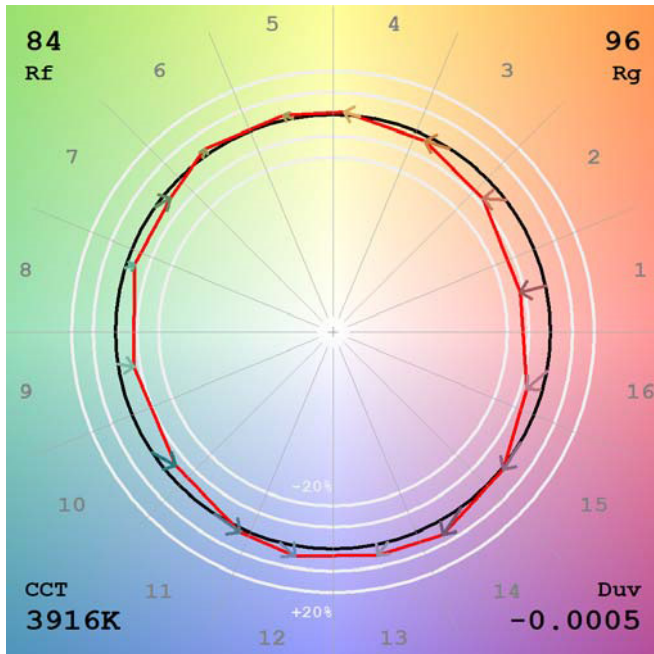
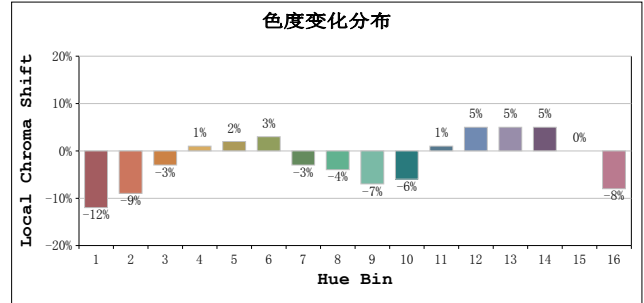
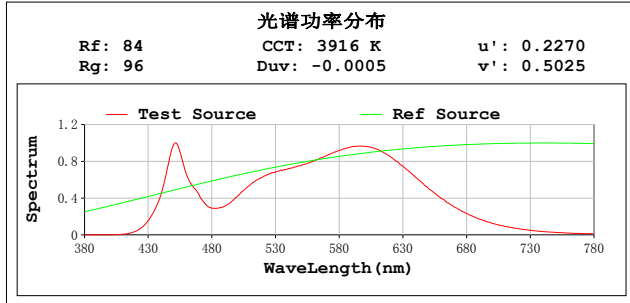
Flux out:694.0 lm

Height	Eavg, Emax	Angle:50.60deg	Diameter
1m	928.6,1471lx		94.54cm
2m	232.1,367.6lx		189.09cm
3m	103.2,163.4lx		283.63cm
4m	58.04,91.91lx		378.17cm
5m	37.14,58.82lx		472.71cm
6m	25.79,40.85lx		567.26cm
7m	18.95,30.01lx		661.80cm
8m	14.51,22.98lx		756.34cm
9m	11.46,18.16lx		850.88cm
10m	9.286,14.71lx		945.43cm

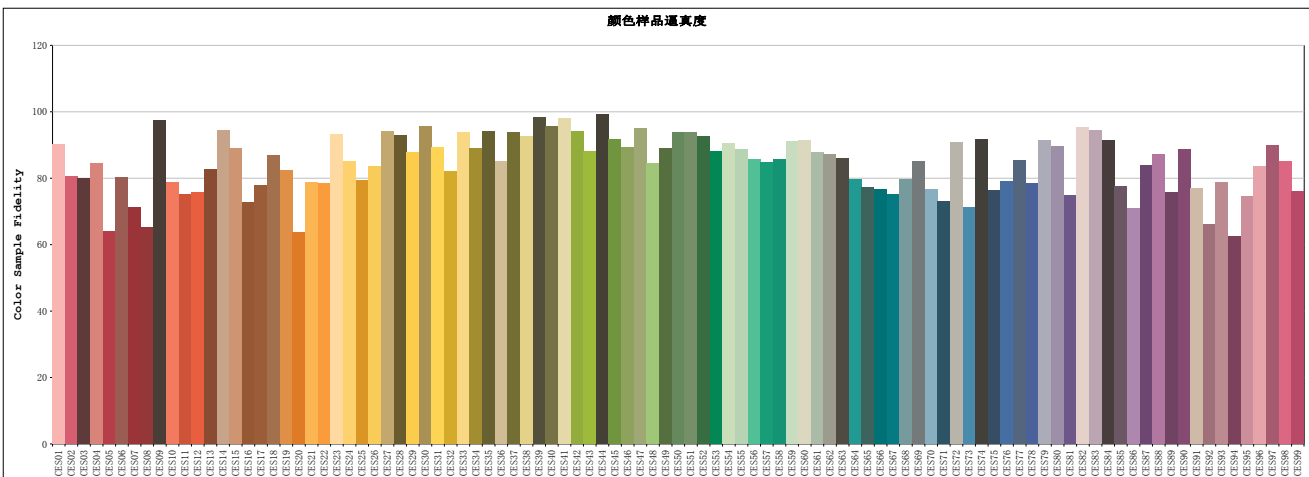
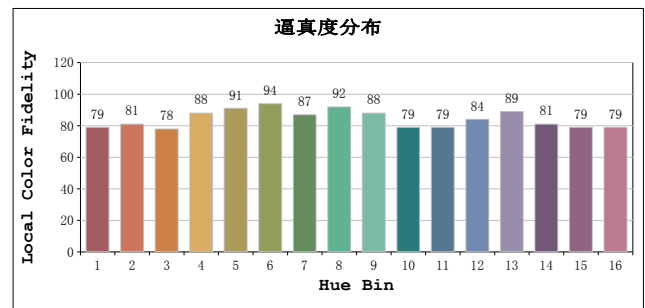
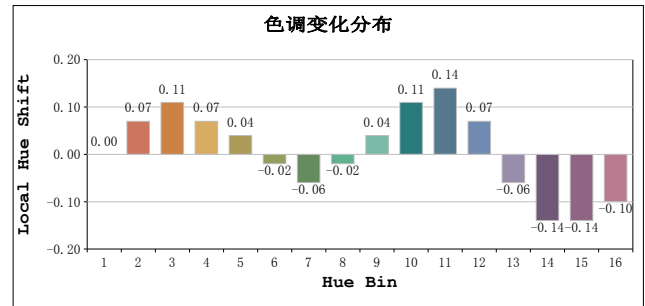
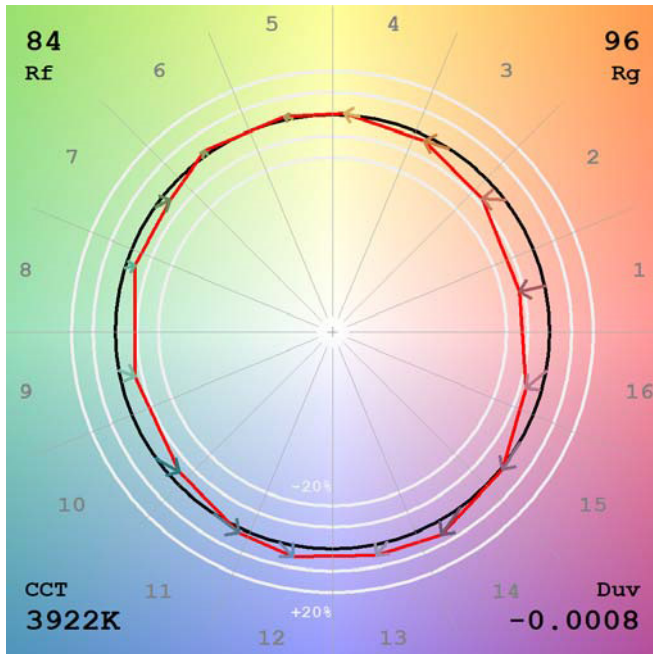
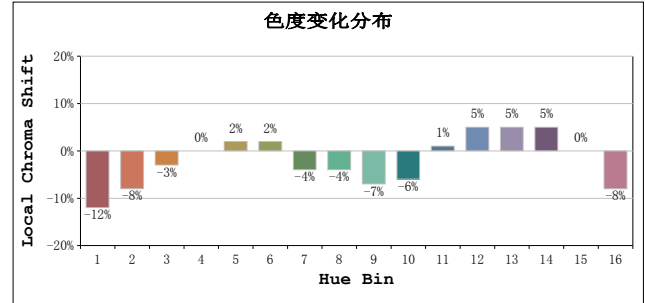
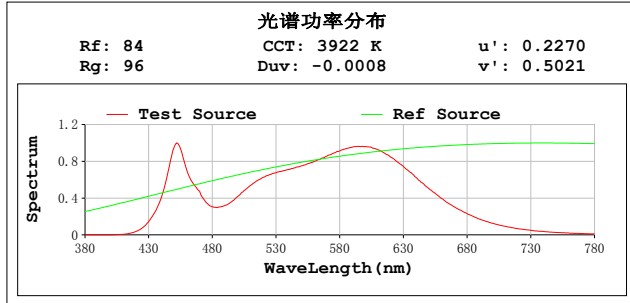
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Wallwasher white 45x45 Lens

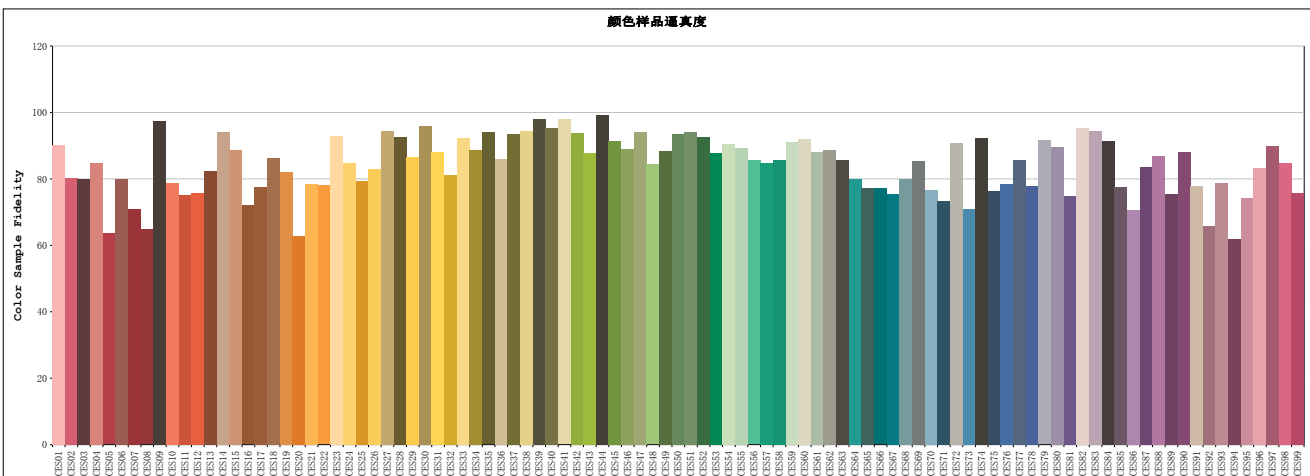
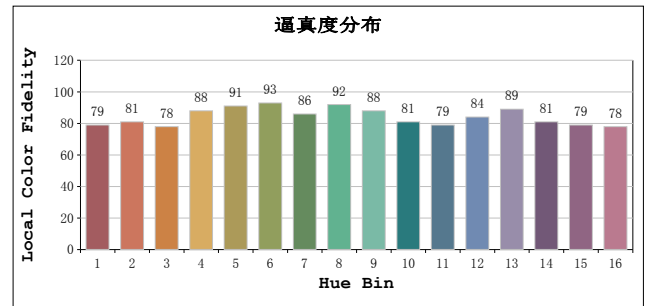
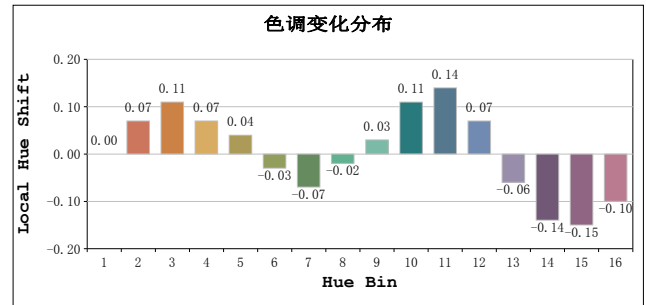
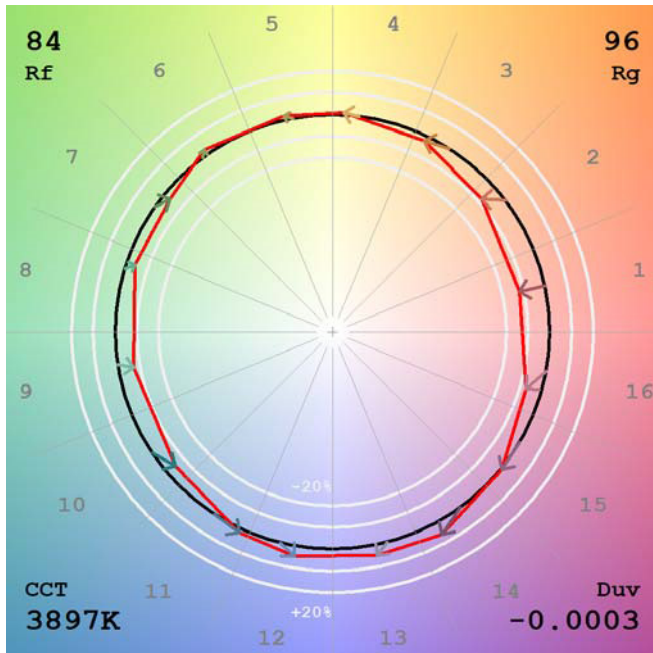
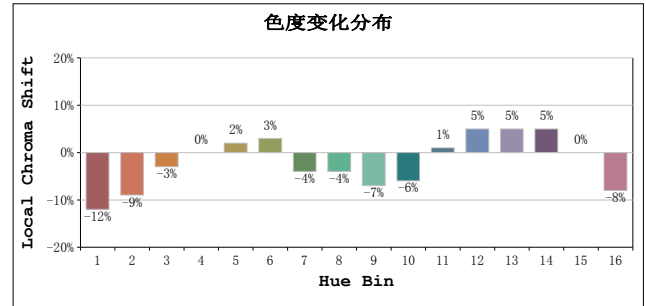
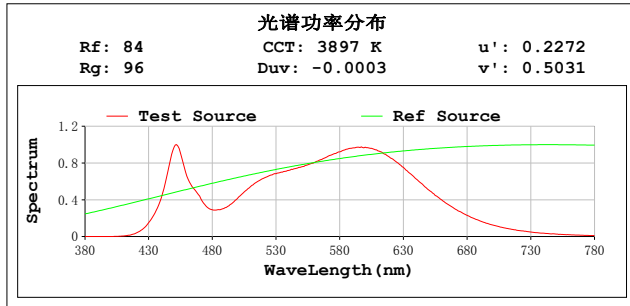
TM30



TM30



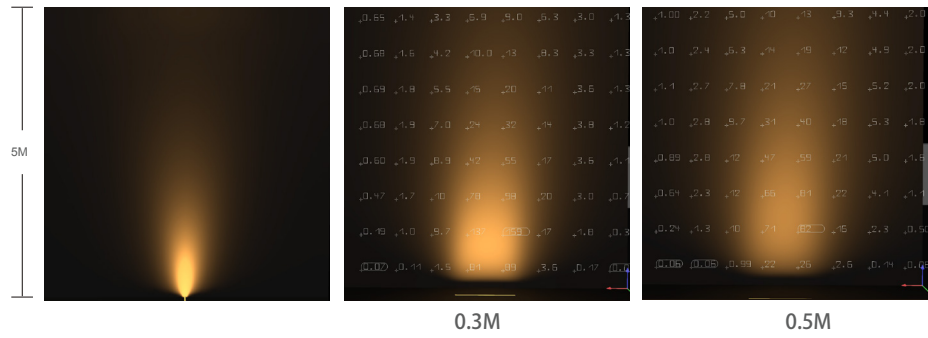
TM30



## Luminous effect

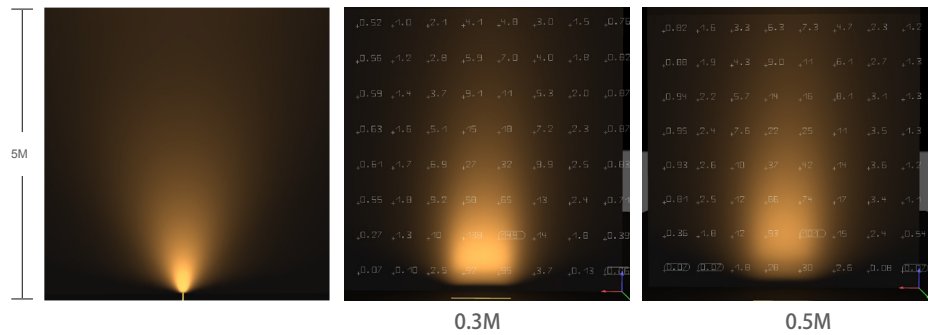
### 20°\*30°

20°\*30 beam angle lens  
 recommend distance from wall:0.5M  
 Light concentration,High lighting distance



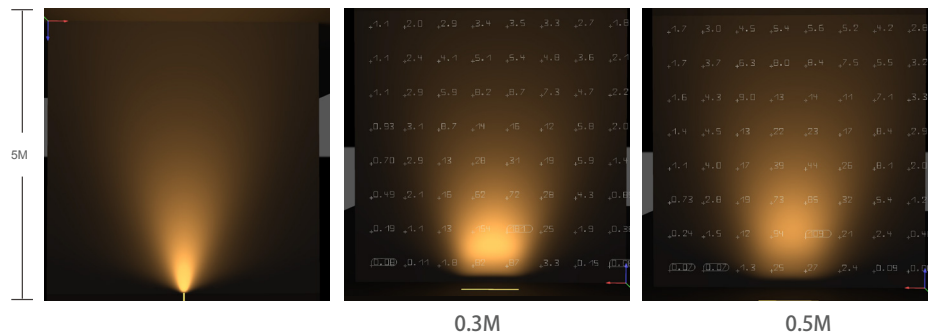
### 10°\*60°

10°\*60 beam angle lens  
 recommend distance from wall:0.5M  
 larger luminous surface,High lighting distance



### 45°

45 degree beam angle lens  
 recommend distance from wall:0.5M  
 larger luminous surface



## ELECTRICAL WIRING COLOR CODES

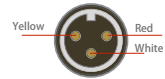
#### MONOCOLOR

Red: V+  
 Black: GND



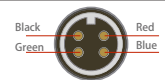
#### CCT

Red: V+  
 White: C  
 Yellow: W



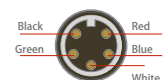
#### RGB

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



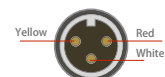
#### RGBW

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+

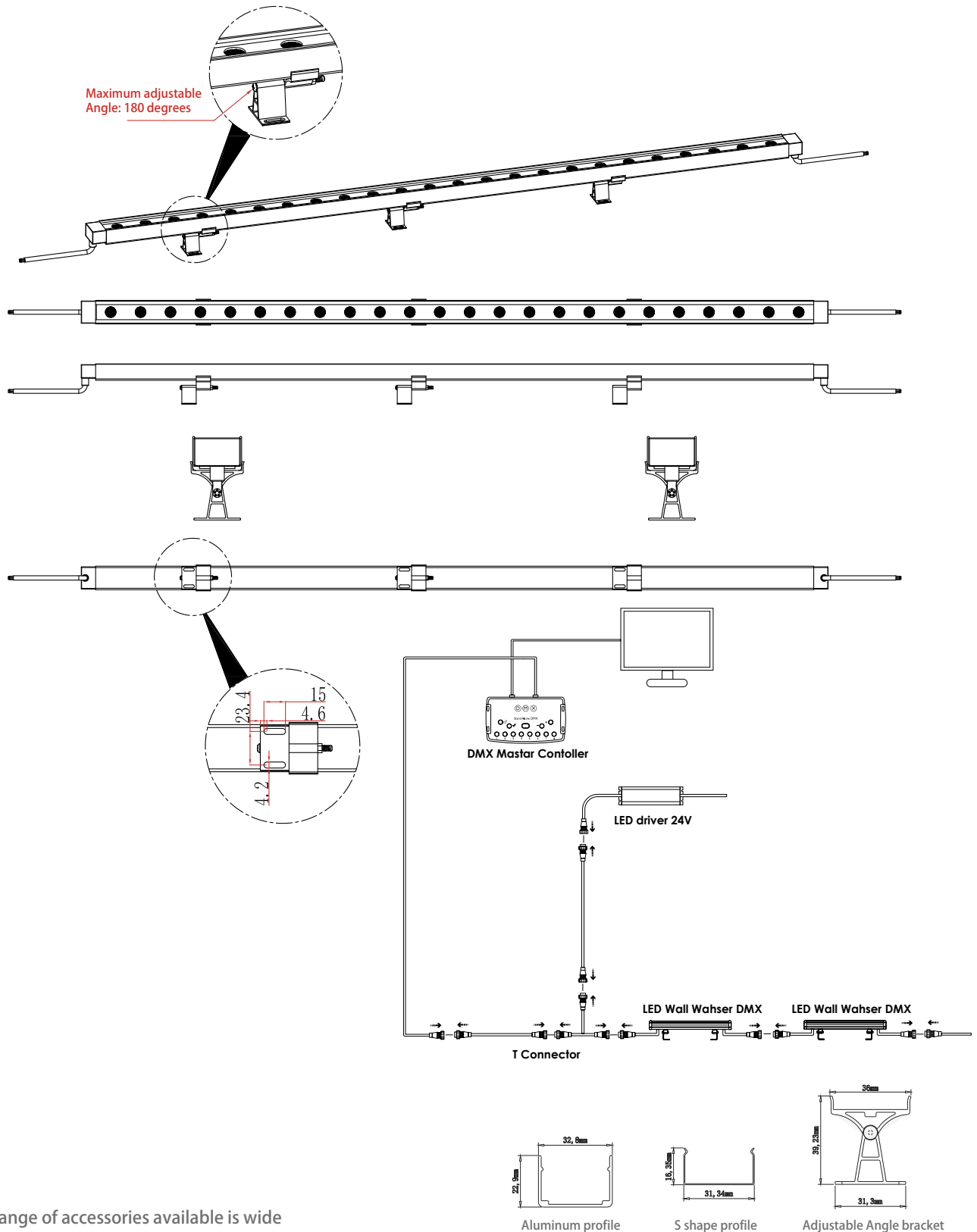


#### RGBCCT

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



## Luminous effect

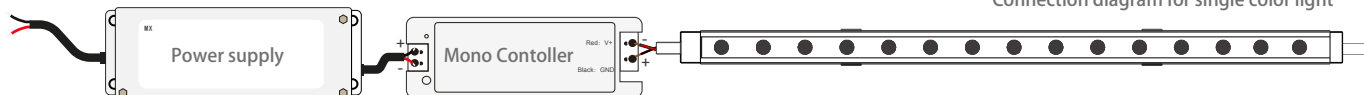


The range of accessories available is wide

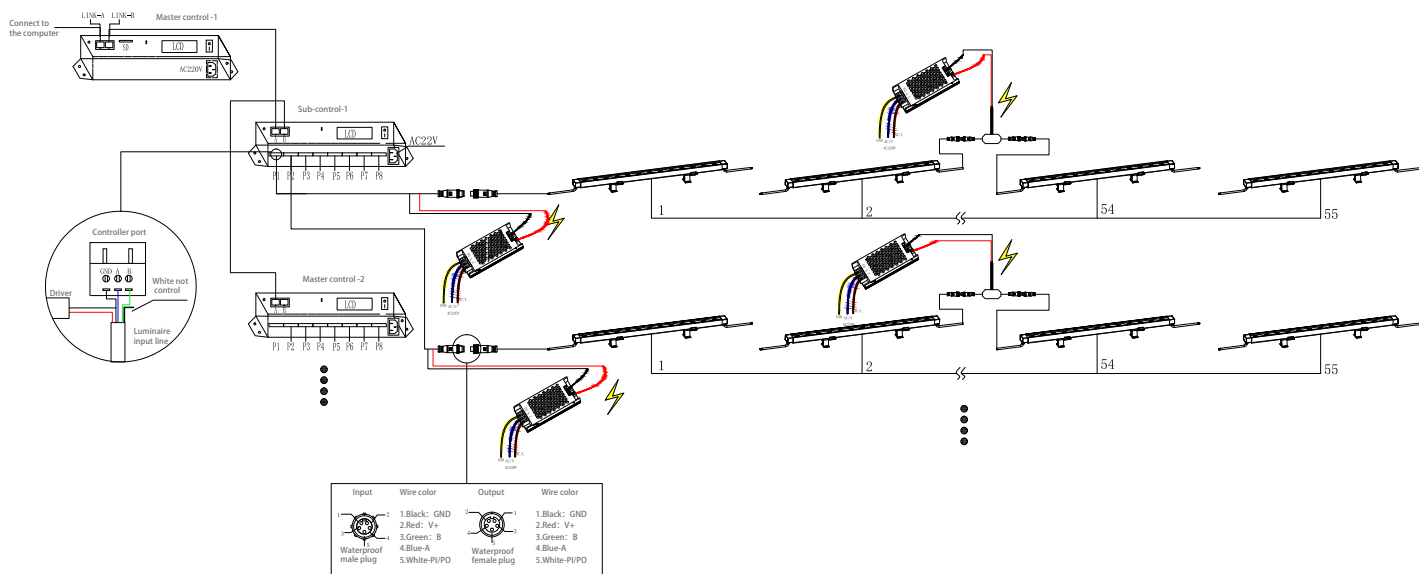
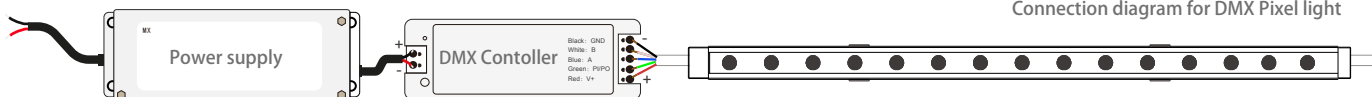
Aluminum profile, S shape profile, Adjustable Angle bracket

## Connection diagram

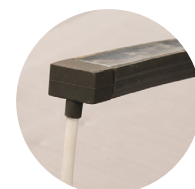
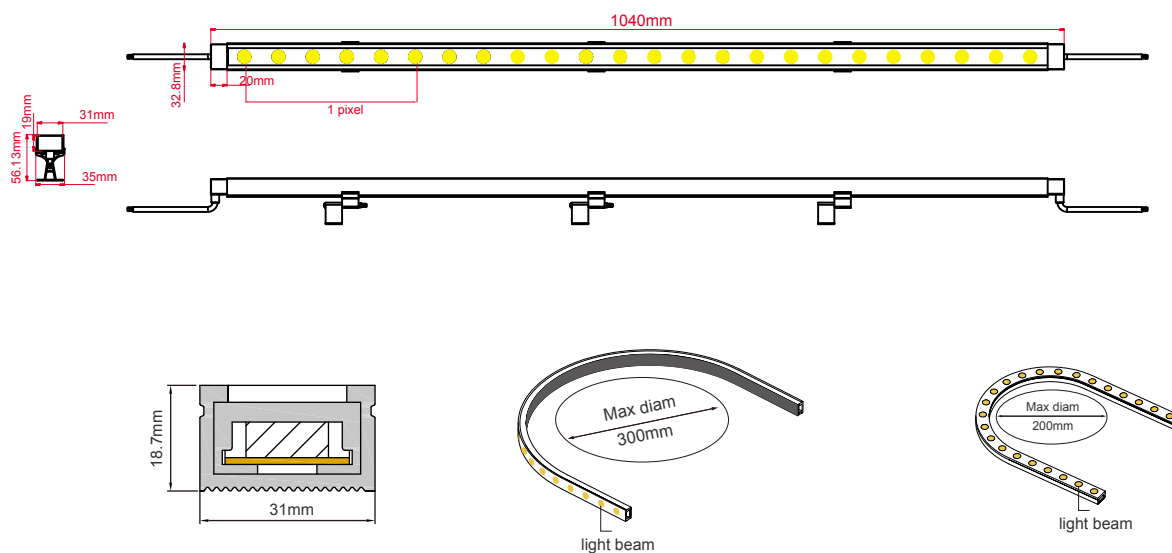
Connection diagram for single color light



Connection diagram for DMX Pixel light





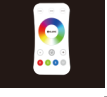

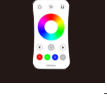







## Cable entry method



Cable entry:Side Front

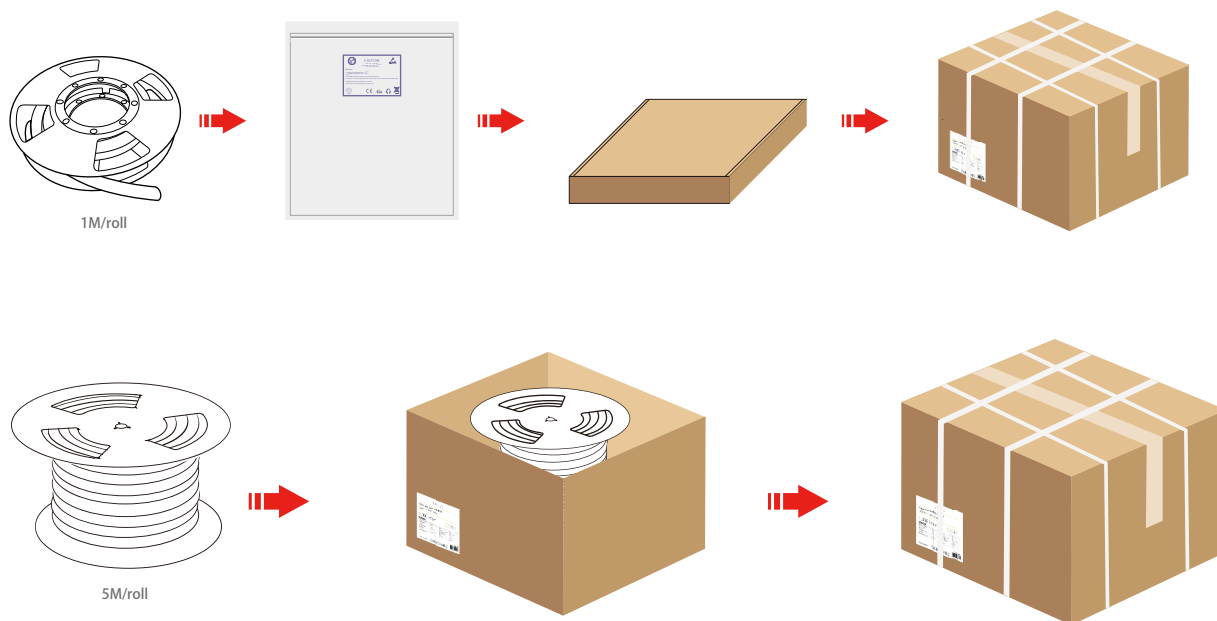
## Controller

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
	Monochrome light controller	MX-03-030322	Input voltage:12-48VDC Output current:15A@12V/24V-10A@36V/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	φ150mm 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



## 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.)

