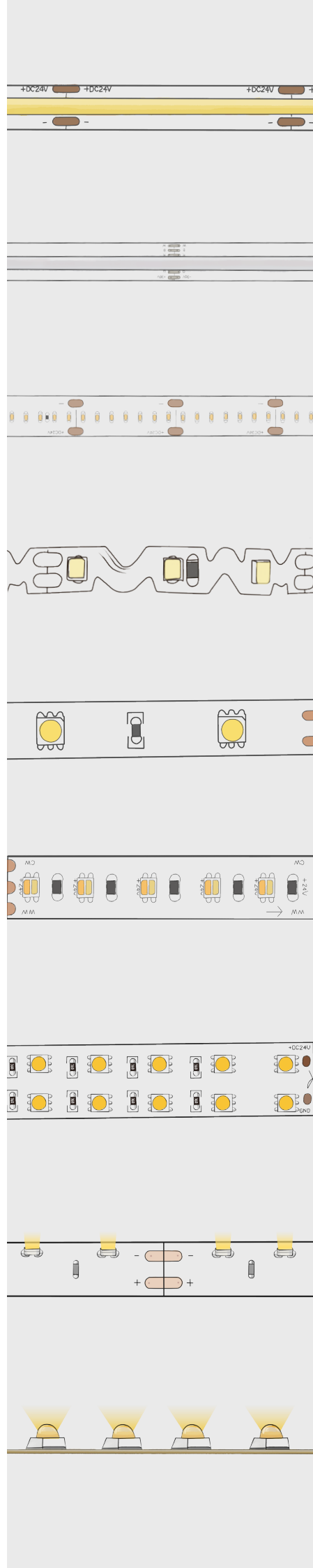




明学光电  
MINGXUE LIGHTING

# 产品规格书

## PU半套管滴胶洗墙灯



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## PU半套管滴胶洗墙灯

- 1-采用TPU材质，耐黄变、耐高温、耐腐蚀、耐弱酸弱碱，柔韧性大。
- 2-采用PU胶填充密封，使其附着力强，耐久性好，可靠性高。
- 3-可替代传统的硬洗墙灯或LED灯条。它体积小，重量轻，灵活，易于安装。
- 4-各种光束角度供选择(65°，30°，25\*45°)可用于不同的应用。
- 5-采用低电压DC24V，安全系数更高



### 应用场景



## 产品参数

产品型号	电压	色温	功率	显指	流明/米	流明/英尺	流明/瓦	透镜角度	灯数	裁剪长度	最大连接长度
MF350A042H00-D000A3A18107N	24V	RGB	20W	N/A	860	262	43	65/30/25*45°	42LED	166.67MM	5M
MF350A042H90-D030E3A18107N	24V	RGBW	20W	N/A	1300	396	65	65/30/25*45°	42LED	166.67MM	5M

## 参数规格

电压	24V	工作时间	50000h
功率	20W(6.1W/ft)	工作温度	-25℃~+45℃
透镜角度	65/30/25*45°	裁剪长度	166.67MM
灯珠/米	42LEDs	防水等级	IP65

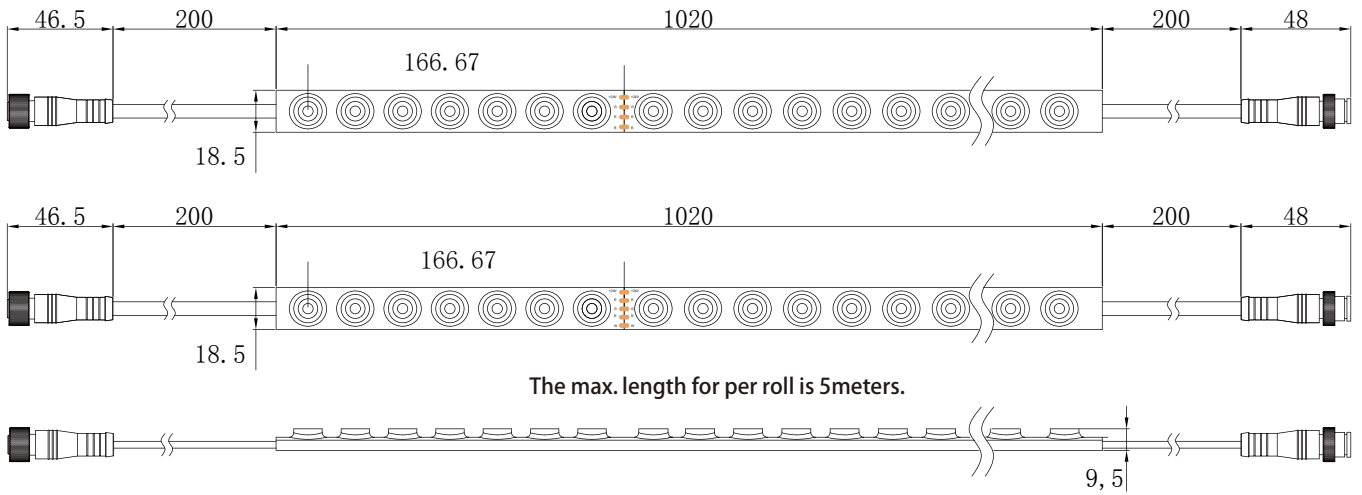
## RGB

颜色	R	G	B	RGB
功率	7W	6.5W	6.5W	20W
流明/米	260	560	100	860
波段	620-630nm	520-530nm	460-470nm	

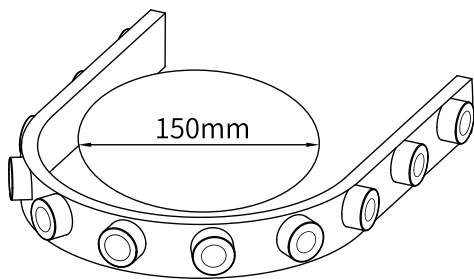
## RGBW

颜色	R	G	B	W	RGBW
功率	5W	5W	5W	5W	20W
流明/米	210	525	110	525	1300
波段/色温	620-630nm	518-530nm	464-474nm	3000k	

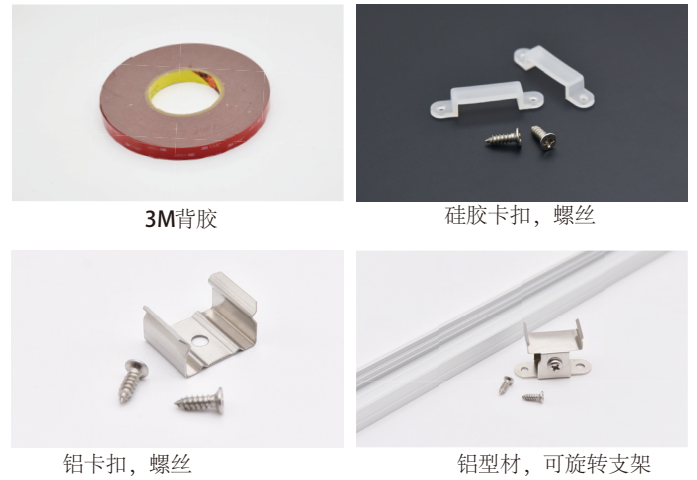
产品尺寸



弯曲直径







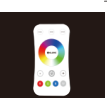

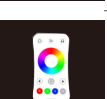





配件



|| 线标

● 单色	Red: V+ Black: GND	Red Black	○ 双色温	Red: V+ White: C Yellow: W	Yellow Red White
○ SPI	Red: V+ Yellow: DAT White: GND	Yellow Red White	○ RGB	Black: V+ Red: R Green: G Blue: B	Black Red Green Blue
○ RGBW	Black: V+ Red: R Green: G Blue: B White: W	Black Red Green Blue White	○ RGB CCT	Black: V+ Red: R Green: G Blue: B White: C Yellow: W	Black Red Green Blue White Yellow
● DMX	Black: GND White: PI/PO Blue: A Green: B Red: V+	Black Red Green Blue White			

**控制器**

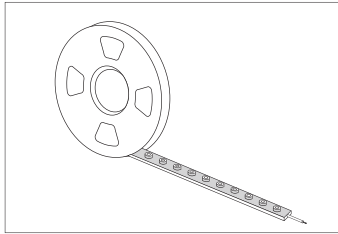
图片	类型	型号	规格	匹配
	Monochrome remote	MX-03-030472	Output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:-30°C~+55°C	Use with Monochrome light strip
	Monochrome light controller	MX-03-030322	Input voltage:12-48VDC Output current:15A@12/24V-10A@36/48V Output 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 display (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

## 可靠性测试

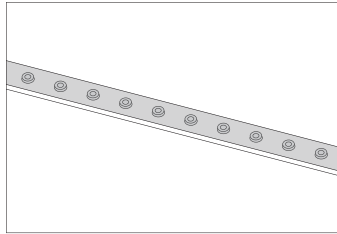
测试类型	测试项目	测试标准	描述	
PHOTOMETRIC TEST	Spectrum Analysis	LM 79	LM 79(lumen,CCT,CRI,XY,SDCM,wave length)	
	Photometric Distribution	LM 79	LM 79(lumen intensity distribution&Lux diagram)	
	Lumen Maintenance&Life Time	IES LM 80&IES TM28 GB/T24824-2009	LM 80&IES TM28	
ELECTRICAL TEST	EMC Test	EMI & EMS	IEC 61547/GBT 18595 IEC 61000-3-2/GB 17625.1	
	Bending Test Vertical	Mingxue	Manufacturer-defined,100 cycles 3 times bending with 0.5m/s pulling speed	
MECHANICS & PHYSICE TESTING	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 with both ends feed. With 30Nm if total cross section <0,75 or 60Nm force, pull wire 25 times during 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	

## ⚠ 注意

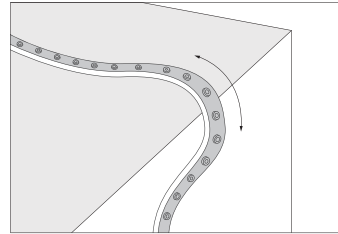
### 正确操作



在安装过程中，将洗墙灯从卷轴中自然取出，并尽可能保持其笔直。

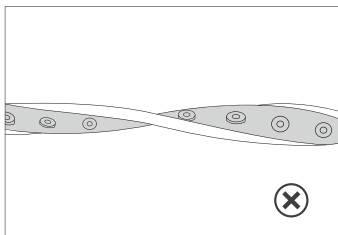


洗墙灯在安装过程中应保持垂直或水平。

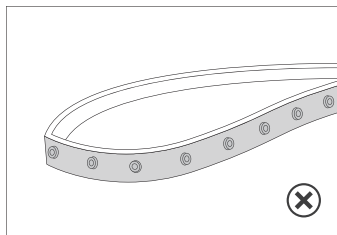


洗墙灯在安装过程中遇到拐角时，必须保持灯体朝上，背面朝下，保持一定的弯曲弧度， $\Phi \geq 150\text{mm}$ 。

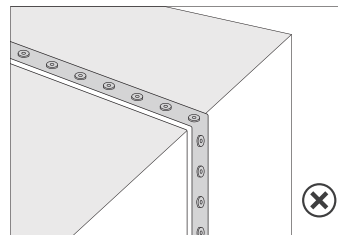
### 错误操作



安装过程中请勿拧动洗墙灯。



安装过程中，请勿将洗墙灯对折或小角度弯曲。



洗墙灯在安装过程中遇到拐角时，必须保持灯体正面朝上，背面朝下，不能直角弯曲。

## || 安全信息

### LED柔性带的应用注意事项

为了安全地驱动LED柔性条形灯，绝对有必要使用电子稳定电源来操作它们，防止短路、过载和过热

为了方便灯具/安装审批，LED或LED灯的电子控制装置、电源和所有电子附件都应带有“CE或UL”标记，并符合最新的安全标准。

- 请使用24VDC隔离电源驱动LED灯带，恒压源纹波小于5%。不能通过电阻电容和任何隔离电源驱动led条等降压电源。
- 为保证灯条的寿命和可靠性，请不要弯曲半径60mm及以下，不要折叠，以免损坏灯珠或折断。
- 为保证灯具的使用寿命和环境，在用力使用时不能拉电源线，以免损坏LED灯具，禁止碰撞。
- 安装时注意正负极电源线，不要选电压错误的电源与产品相同，以免损坏产品。
- LED灯应储存在干燥密封的环境中，建议储存期不宜过长才使用开箱，工作温度： $-20 \sim +45$ ，储存温度： $-0 \sim +60$ ，不防水灯带室内使用，相对湿度不高于70%。
- 在实际应用中，电源应留有20%的余量(建议只使用80%的功率)，以保证足够的电压驱动产品  
不要使用任何酸性、碱性粘合剂固定产品(包括但不限于玻璃、塑料等)