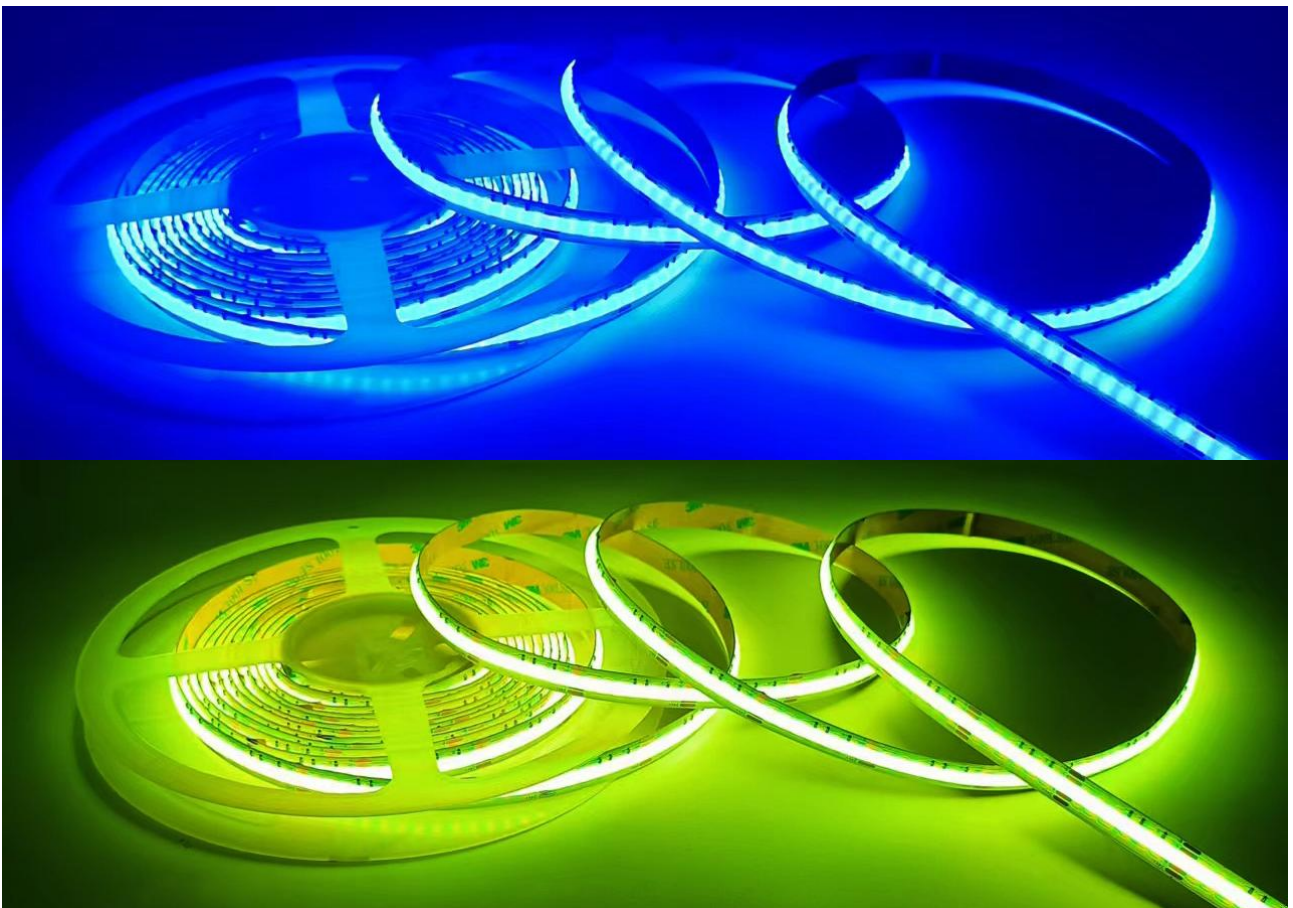


COB LED STRIP SPECIFICATION

DC12V / DC24V 630 LEDs/M 4PIN 10 MM RGB COB LED STRIP

Product Model: cob-12v/24v-630leds-4pin-10mm-rgb

PART 1 Product Specification



Product Parameters

Parameter	Value
Voltage	DC 12V / DC 24 V
IP Rated	IP20 / IP67
LED Quantity	630 LEDs/m
Color	RGB
Beam Angle	180°
Operating Temperature	-20 °C – +80 °C
Storage Temperature	-40 °C – +100 °C
Power	18 W/m

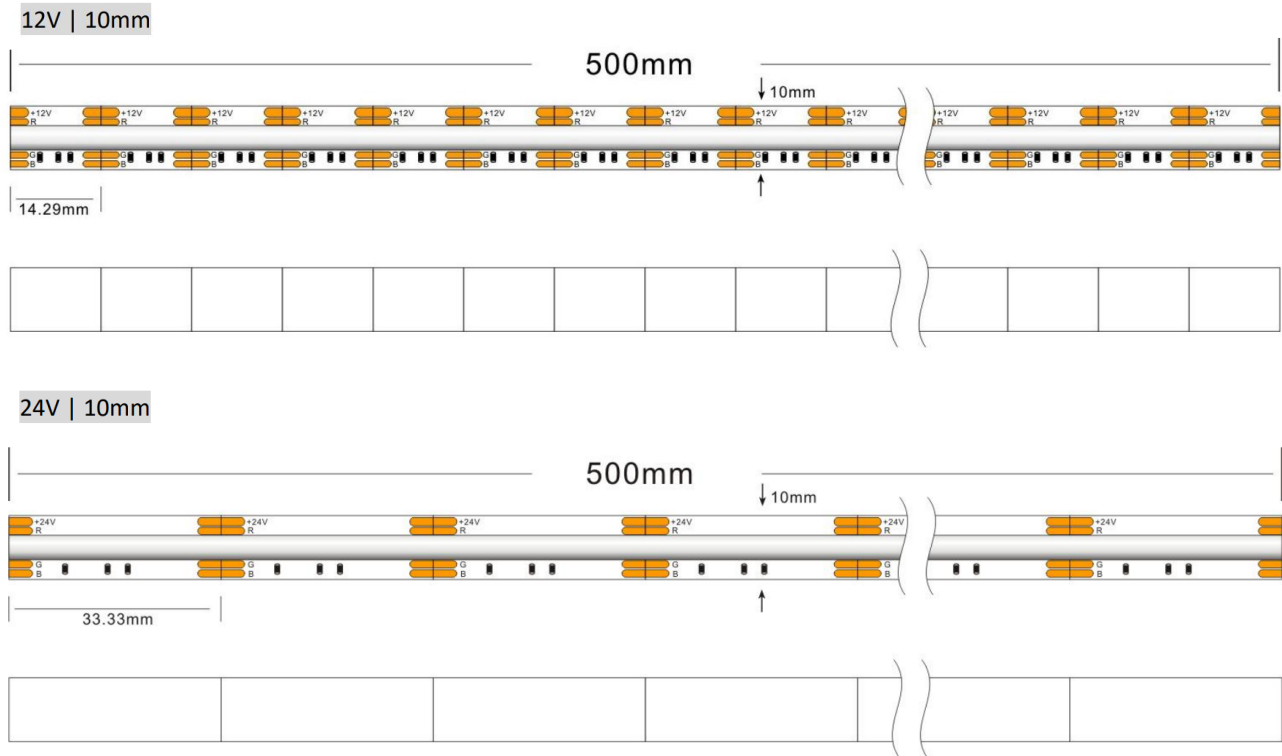
Electrical-optical characteristics (TA=25°C) :

Model-630LED/M 10mm	Color	LEDs Qty.	LEDs Type	Beam angle(°)	Voltage (DC)	Current (A/M)	Power (W/M)	Cct/nm	亮度	Min. cut/m m
FCOB-12V-D630-10mm	Mix White	630	FCOB	180	12V	1	18	8000~15000K	700lm	14.29
	R							620~630	200lm	
	G							515~525	450lm	
	B							455~465	100lm	
FCOB-24V-630-10mm	Mix White	630	FCOB	180	24V	0.6	18	8000~15000K	700lm	33.33
	R							620~630	200lm	
	G							515~525	450lm	
	B							455~465	100lm	

Notes:

1. Electrical parameters are tested on standard 1-meter strips.
2. Data tolerance: ±10%.
3. IP protection processing may vary dimensions, color temperature and luminous flux.

PART 2 Product Dimensions



PART 3 Product Features

- Uniform glow with no spots or dark shadows, delivering soft gentle light
- Maximum beam angle reaches 180° for wide-area illumination
- HBM Class 2 ESD resistance (2000–4000V), tested per MIL-STD-883E
- Flexible for easy installation; free of hazardous substances and RoHS compliant
- Low heat generation for stable long-term operation
- High color consistency.
- Strong bending tolerance for curved & irregular mounting scenes

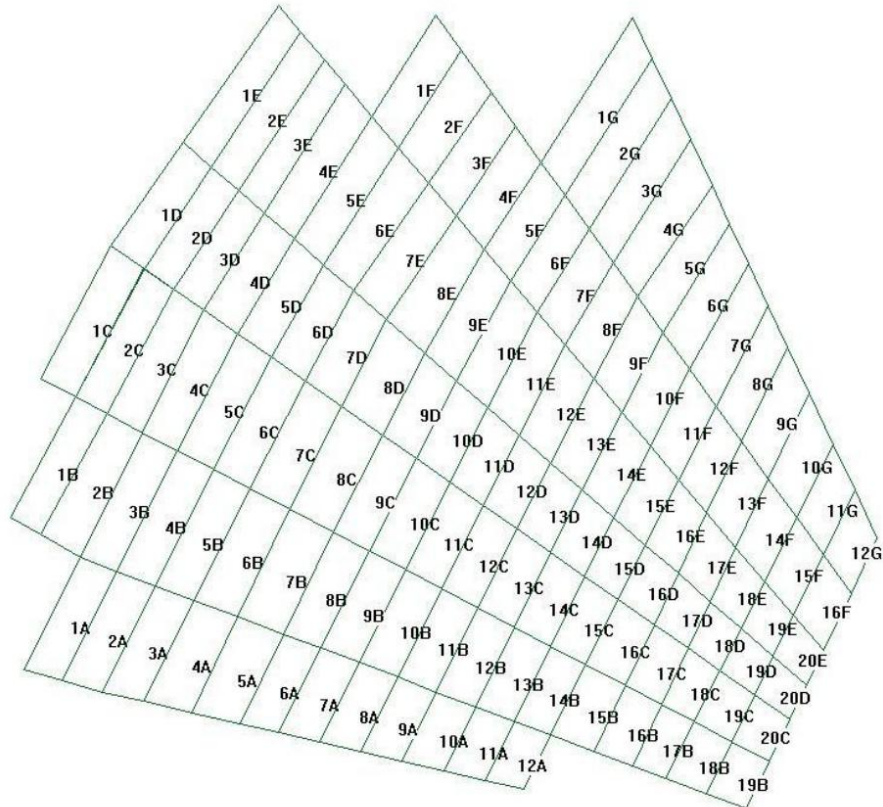
PART 4 Production Application

This COB LED strip works perfectly for illuminated signs, advertising billboards, indoor & outdoor decoration, hotels, bedrooms, guest rooms, corridors, shopping malls, museums and display cabinets. It also fits home accent lighting, bar/wine cabinet backlighting, ceiling indirect lighting, stage ambient lighting, retail shelf display lighting and aquarium landscape lighting.

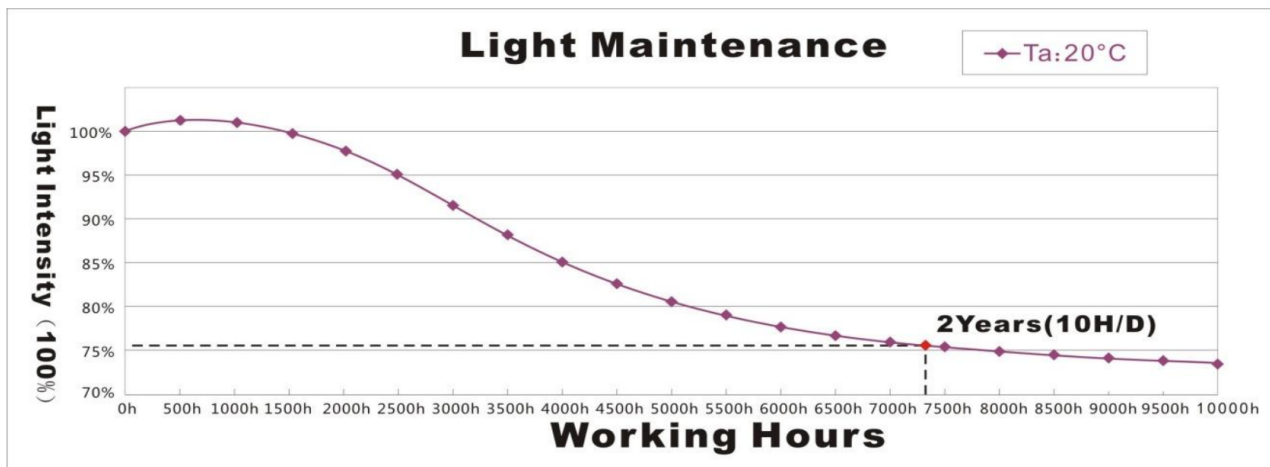


PART 5 Color Bin Limits

Based on MacAdam Ellipse, compliant with ENERGY-STAR® requirements



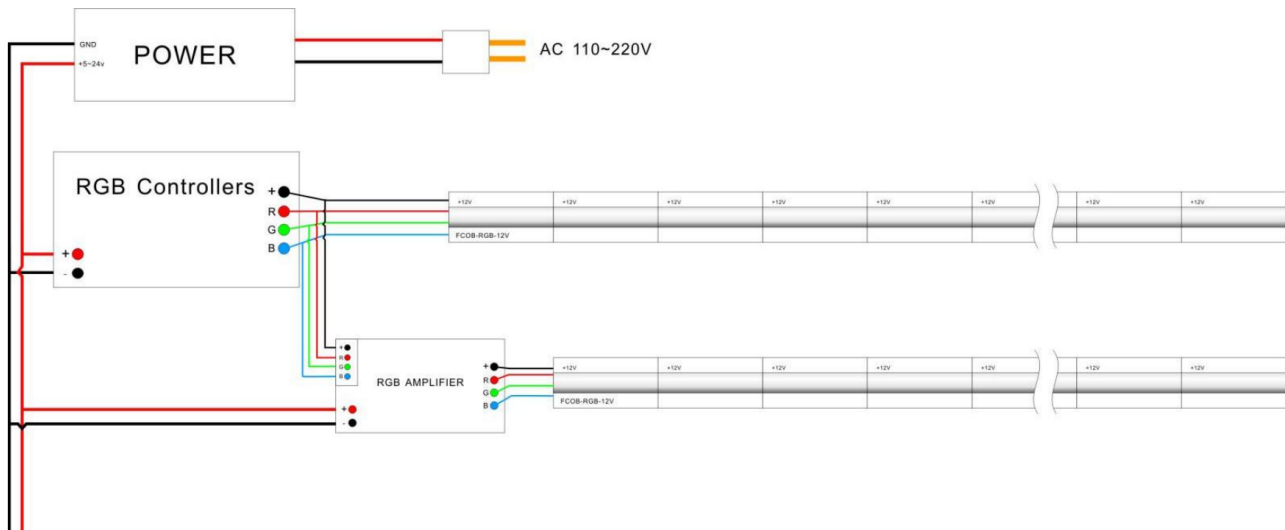
PART 6 Light Decay Graph



PART 7 Reliability Test Items and Conditions

No.	Test Item 测试项目	Test Conditions 测试条件	Note 频次	Number of Damaged
01	Thermal Shock 冷热冲击测试	-25°C 15min ↑↓ 100°C 15min	300 cycle	0/22
02	Life Test 常温寿命测试	Ta=25°C 额定电压	1000 hrs	0/22
03	Temperature Humidity Storage 恒温恒湿贮藏测试	Ta=85°C RH=85%	1000 hrs	0/22

PART 8 Wiring Diagram



PART 9 Installation & Usage Notes

1. Choose a suitable LED driver. Strip total power consumption shall be approx. 80 % of driver rated power; avoid full load for stable voltage output.
2. Standard roll length: 5 m. Brightness inconsistency occurs above 5 m. Lengths over 5 m available per customer's agreement.
3. Back adhesive works well on smooth glass, metal and plastic. Fabric / wood surfaces may degrade adhesion. Test before installation.
4. Minimum bending diameter: 60 mm. Prevent damage to FPC and components to avoid strip failure.
5. For waterproof & anti-corrosion performance: fill connectors with one-component silicone gel (neutral glass glue / waterproof grease), seal exposed copper wires after wiring.
6. Non-waterproof strips cannot be used outdoors. Do not touch/install strips when powered.
7. Use safety-certified switching power supplies with short-circuit, over-voltage and over-current protection.