

COB LED STRIP SPECIFICATION

Addressable DC24V 360LEDS 3PIN 10MM WHITE COB LED STRIP

Product Model: cob- addressable-24v-360leds-3pin-10mm-w

PART 1 Product Specification

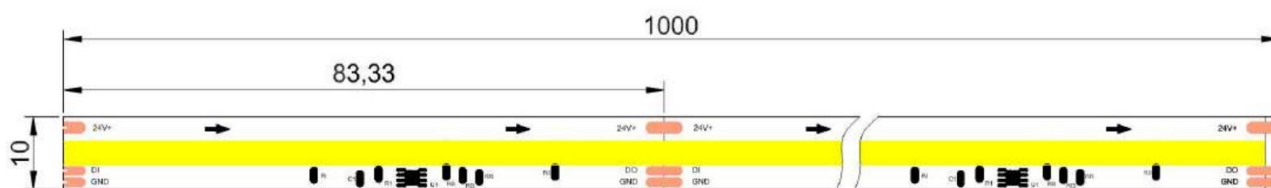


Electrical & Optical Parameters

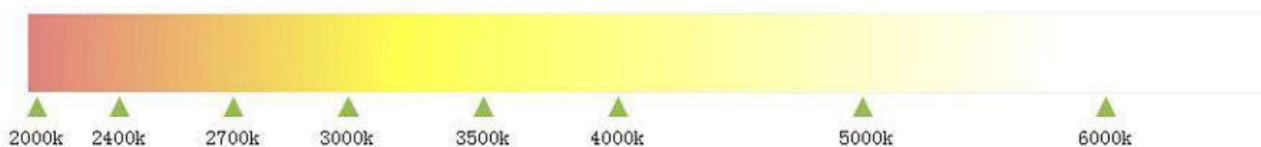
Parameter	Value
Voltage	DC 24V
Power	12 W
PCB Width	10 mm
IP Rated	IP20
LED Quantity	360 LEDs/m
Color Temperature (CCT)	1800K / 2700K / 3000K/ 4000K/ 5000K/ 6000K + IC
CRI (Ra)	90
Luminous Efficacy	90 – 110 lm/W
Beam Angle	180°
Cutting Unit	83.33 mm
Operating Temperature	-40 °C – +85 °C
Storage Temperature	-40 °C – +85 °C

PART 2 Product Dimensions

1) The minimum cutting unit of the flexible LED strip is 83.33 mm. Custom cutting intervals are available upon request to suit specific installation requirements.



2) Color temperature meets EU and US standards including Energy Star and ANSI C78.377. Full CCT range is customizable; warm-white, neutral-white and cool-white products are available upon request.



PART 3 Product Features

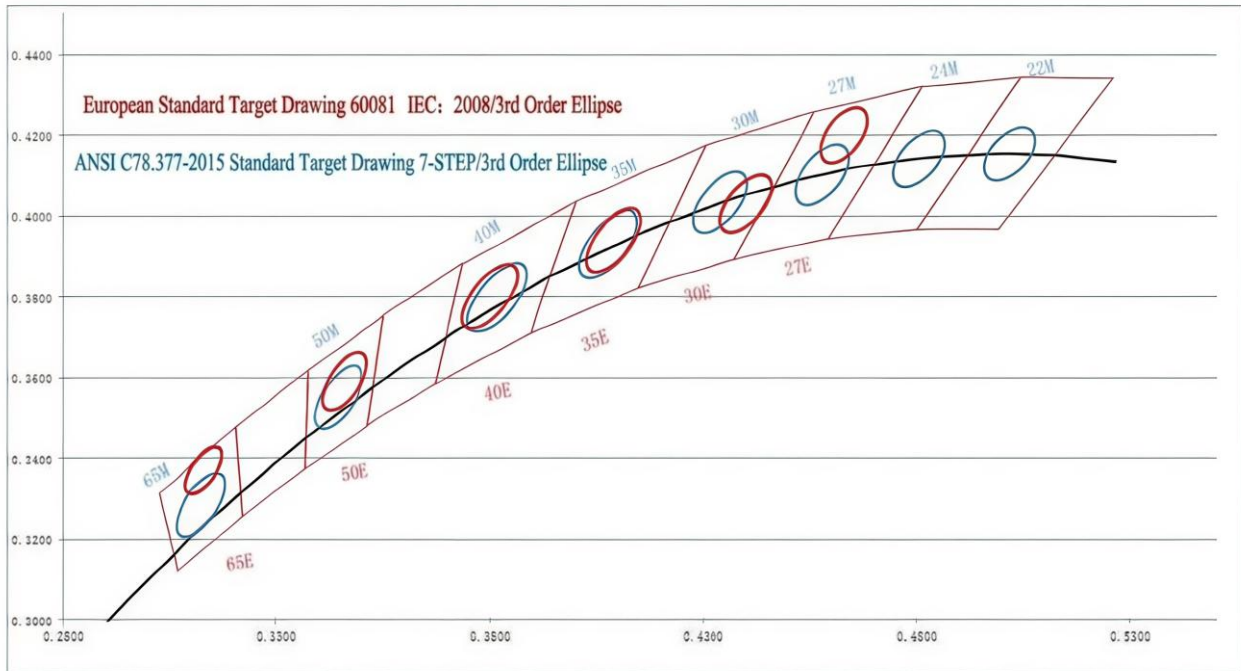
- Uniform glow with no spots or dark shadows, delivering soft gentle light
- Maximum beam angle reaches 180° for wide-area illumination
- HBM Class 2 ESD resistance (2000–4000V), tested per MIL-STD-883E
- Flexible for easy installation; free of hazardous substances and RoHS compliant
- Low heat generation 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 Coordinate Range



PART 6 Color Coordinate Comparison

EU Standard (Energy Star / ANSI C78.377)

CCT (K)	Code	x	y
2640K – 2840K	27E	0.4630	0.4200
2830K – 3100K	30E	0.4400	0.4030
3330K – 3630K	35E	0.4090	0.3940
3770K – 4300K	40E	0.3800	0.3800
4700K – 5200K	50E	0.3460	0.3590
6050K – 6800K	65E	0.3130	0.3370

US Standard (ANSI C78.377)

CCT (K)	Code	x	y
2210K – 2310K	22M	0.5018	0.4153
2420K – 2535K	24M	0.4806	0.4140

2670K – 2820K	27M	0.4578	0.4101
2980K – 3150K	30M	0.4339	0.4033
3360K – 3590K	35M	0.4078	0.3930
3860K – 4140K	40M	0.3817	0.3797
4845K – 5235K	50M	0.3446	0.3551
6270K – 6820K	65M	0.3123	0.3283

PART 7 Reliability Testing Standards

Test Item	Test Conditions	Duration / Cycles	Acceptance Criteria
Thermal Shock	-40 °C 30 min / 100 °C 30 min (5 s transfer)	200 cycles	No glue cracking, no dead LEDs
High Temp. / Humidity Storage	Ta = 85 °C, RH = 85 %, rated voltage	1 000 hours	Lumen depreciation ≤ 10 %, no glue cracking, no dead LEDs
Room Temp. Life Test	Ta = 25 °C, rated voltage	1 000 hours	Lumen depreciation ≤ 3 %, no glue cracking, no dead LEDs
High Humidity Heat Life Test	60 °C, RH = 90 %, rated voltage	1 000 hours	Lumen depreciation ≤ 10 %, no glue cracking, no dead LEDs
Twist Test	0.5 m strip, both ends fixed, twist +/- 720° per cycle	500 cycles	No dead LEDs, no delamination

PART 8 Installation & Usage Notes

- Protect the light-emitting area from sharp and hard objects to avoid surface damage.
- Complete soldering within 24 hours after unpacking to prevent pad oxidation. Seal unused strips in vacuum packaging promptly after opening.
- Keep the light-emitting area away from high-temperature objects; instantaneous contact temperature shall not exceed 210 °C.
- Set soldering iron temperature below 300 °C, and limit soldering duration per pad to under 3 seconds.
- Do not twist the strip sharply. The max twist angle for a 0.5m strip is 720°.
- Maintain a bending diameter larger than 1cm at all bending positions.
- Use only the specified DC voltage to prevent chip burnout from overvoltage. (

- Do not cover the light-emitting surface with heat-insulating materials during operation for normal heat dissipation.

