COB LED STRIP

CB-PRO-24V-5M-5MM

Features

- High positioning, high reliability, ultra-thin appearance, and super flexible bending.
- Homogeneous and soft linear lighting performance for 5M (16.4ft) length.
- High-quality thick copper for consistent voltage and brightness across the entire reel.
- Custom protective structure offering excellent bending resistance, reliability, and stable quality.
- Waterproof (IP65) – suitable for both indoor and outdoor use.
- 50,000 hours lifespan and 5-year warranty.

Application

Indirect lighting in:

- Contours
- Corridors
- Stairs
- Coves
- Handrails
- Skirting
- Barriers

Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
CB-PRO-24V-5M-5MM-30K	L5,000 x W5 x H1.4mm	3000K	COB	24Vdc	6 W/m	510 lm/m	Ra≥90	5 mm	5m	IP20	150°
CB-PRO-24V-5M-5MM-30K-IP65	L5,000 x W8 x H4mm	3000K	COB	24Vdc	6 W/m	490 lm/m	Ra≥90	5 mm	5m	IP65	150°

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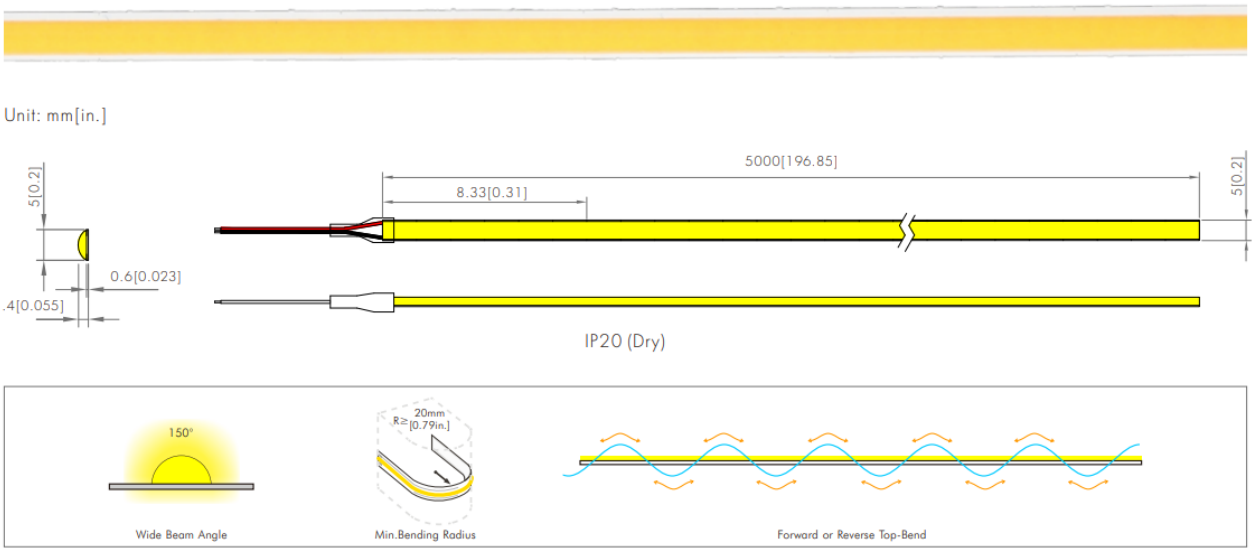
Parameter

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft.] (power fed on one side)	Power±10%	6W/M [1.83W/ft.]
Min. Unit & Chip QTY	8.33mm [0.33in.] & 4 chips	Input Voltage	24VDC
Light Source	COB (Chip On Board)	Chip Current	2mA/chip
Chip QTY	480chips/M [146chips/ft.]	CCT & Wavelength	2700K&3000K&4000K&5000K&6500K
PCB Type	White FPC, OSP	SDCM	ANSI Norm, 3 step in 1 bin
Operating Ambient	Ta: -20~45°C [-4~113°F], Tstg: -20~60°C [-4~140°F]	CRI	Ra≥90
Warranty	5 years	Beam Angle	150°
Lifespan	50kh (L70@Tc≤65°C [149°F], Tc is temperature of chip pin)	Dimming Method	PWM (dimmable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, CB, SAA, UL, RoHS		

Note:

1. The luminous flux is based on length of 1M[3.28ft.], it may be re-measure for other lengths.
2. The energy efficiency class of regulation (EU)2019/2020 is G(CRI90) for 2700K and F(CRI90) for 3000K/4000K/5000K/6500K in IP20, it varies depending on CRI, CCT and IP rating.
3. Dimension and optical parameters such as luminous flux, CCT, CRI and SDCM of the waterproof product may vary compared with the IP20 version.
4. The transmittance of IP65/IP67 Plus for 2700K/3000K/4000K/5000K/6500K/red/green/blue are 95%, compared with the IP20.
5. Applying with extra heat sink is not necessary with self-cooling capacity.
6. It is available for forward or backward top bend, with a minimum bending radius of 20mm.
7. 3M 300LSE yellow adhesive tape attached on the backside, is standard configuration.
8. 200mm[7.9in.] of red (+)/black (-) AWG24 UL1007 PVC cable, or corresponding waterproof connector kit, is standard configuration.
9. Transparent reel and silvery ESD bag, are standard configuration.
10. Installation and assembly accessories such as clips, screws, connectors, cables, etc, are optional according to the specific demand.
11. Power maintenance rate=actual measured power in a certain length/(a same certain length*actual measured power in 1M[3.28ft.] length);
12. Brightness maintenance rate=actual measured brightness on the tail section in a certain length/actual measured brightness on the first section in a same certain length. (Generally, there are few cases of full power operation for mixed colour like RGB/RGBW/RGBCCT/RGBWCCT.)

Picture & Diagram



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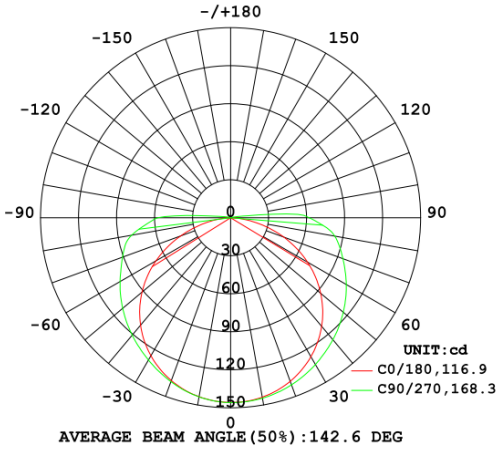
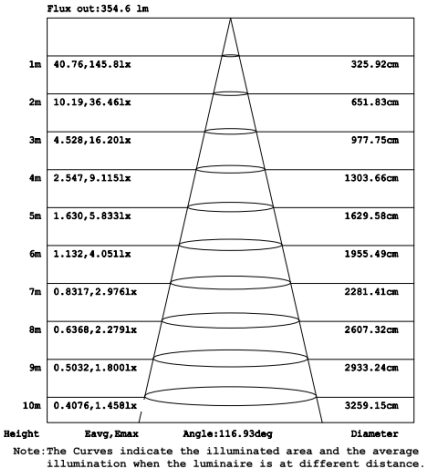
Light Distribution Diagram





4000K, IP20

Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	4 September 2025	Jesse Jankelowitz	Michael Xu