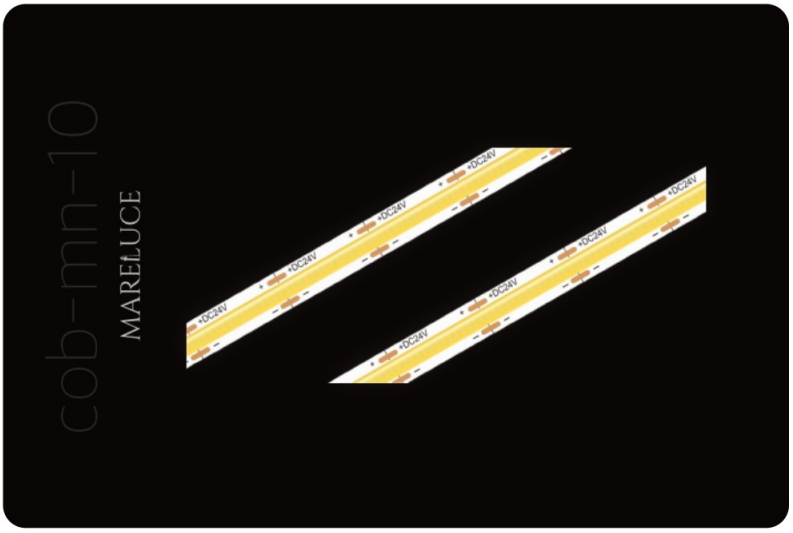
LED STRIP · COB · 10 MM

COB-MN-10

10 mm dot-free COB LED strip, 480 chips/m, 5 / 10 / 15 W/m · 12 / 24 V DC



PCB WIDTH	10 mm
POWER	5 / 10 / 15 W/m
VOLTAGE	12 / 24 V DC
CUT UNIT (24 V)	50 mm
BEAM ANGLE	180°
MIN. BEND RADIUS	10 mm

Overview

COB-MN-10 is a 10 mm chip-on-board LED strip with 480 chips per metre under a continuous phosphor layer, for a completely dot-free line of light at 5, 10 or 15 W/m. The uniform 180° emission suits coves, open shelves, mirrors and indirect lighting in saloons and cabins on board, even in shallow profiles. 12 or 24 V DC, PWM dimmable.

Specifications

Dimension	5000 × 10 × 2 mm (5 m reel)
LED	COB, 480 chips/m
Cut unit	24 chips / 50 mm (24 V) · 12 chips / 25 mm (12 V)
Power	5, 10 or 15 W/m
Current (24 V / 12 V)	0.21 / 0.42 A (5 W) · 0.42 / 0.84 A (10 W) · 0.625 / 1.25 A (15 W)
Colour temperature	2700K, 3000K, 4000K, 6500K
Colour rendering	CRI 90
Beam angle	180°
Dimming	PWM
PCB	2 oz copper, high-thermal 3M adhesive
Ambient temperature	−20 °C to +50 °C
Lead wire	150 mm, red/black, 18 AWG
Min. bend radius	10 mm
Protection	IP20 standard; IP52, IP65H, IP65, IP67 on request

Cut Unit



ORDERING INFORMATION

Product Code

COB-MN-10	10 W	3000K	24 V
MODEL	POWER	COLOUR TEMPERATURE	VOLTAGE
	5 · 10 · 15 W/m	2700K · 3000K · 4000K · 6500K	12 · 24 V DC

Specify power, colour temperature and supply voltage when ordering. Example: **COB-MN-10**, 10 W/m, 3000K, 24 V DC.

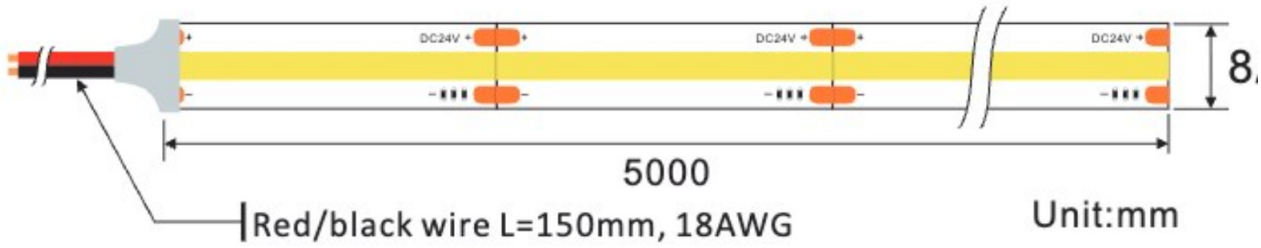
Photometric Data

COLOUR TEMPERATURE	5 W/M LM/M	LM/W	10 W/M LM/M	LM/W	15 W/M LM/M	LM/W
COB-MN-10 · 2700K	482	96.4	957	95.7	1418	94.5
COB-MN-10 · 3000K	519	103.8	1029	102.9	1527	101.8
COB-MN-10 · 4000K	575	115.0	1138	113.8	1690	112.7
COB-MN-10 · 6500K	561	112.4	1124	112.1	1672	111.5

Measured on IP20 strip at 24 V DC, full output, CRI 90.

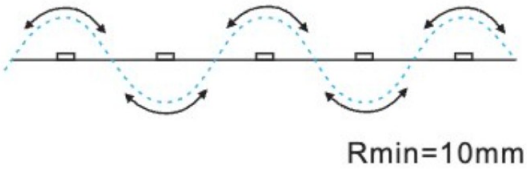
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



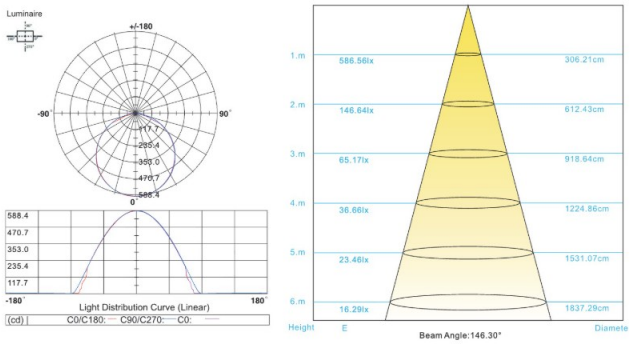
5 m reel, 10 mm PCB; cut marks every 50 mm (24 V) or 25 mm (12 V); 150 mm red/black lead wire, 18 AWG.

Bending



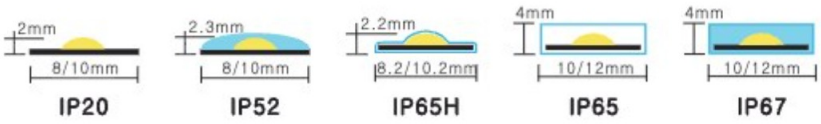
Flexible strip; minimum bend radius 10 mm.

Polar Curve



Reference: IP20, 10 mm PCB, 6500K.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	10 × 2 mm
IP52	Silicone coating	10 × 2.3 mm
IP65H	Heat-shrink tube	10.2 × 2.2 mm
IP65	Silicone tube	12 × 4 mm
IP67	Silicone tube, filled	12 × 4 mm

Light output and power may vary by up to ±10% due to production and component tolerances.