

COB LED STRIP · 24V · 8MM

24V 9.6W IP65 COB LED Strip

CODE ARC-COB10C-IP65

A continuous, dot-free line of light from an 8mm chip-on-film strip. Reel-to-reel construction with no soldered joints, a 145° beam and Ra >90 colour rendering. Sealed in a curved silicone extrusion to IP65 and cut to length in 50mm steps — built for furniture, joinery, coves and decorative lighting.



DOT-FREE LINE

UKCA

CE

UL

RoHS

REACH

24V

IP65

DOT-FREE

HIGH CRI

DIMMABLE

CUT EVERY 50MM

9.6 W/m
TYP. POWER

>90 Ra
COLOUR RENDERING

145°
BEAM ANGLE

50 mm
CUT UNIT

60k hrs
RATED LIFE

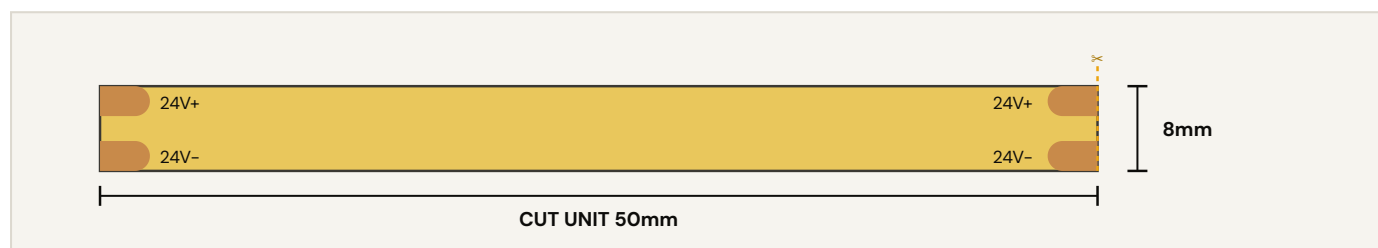
/// ELECTRICAL

Input voltage	24V DC constant voltage
Typical power	9.6W/m · 42W per 5m
Power range	8.6–10.5W/m
Rated current	0.4A/m · 1.75A per 5m
Max. run length	5m single-end feed · 10m fed both ends
Driver	24V DC isolated, ripple <5%, 20% headroom
Switching cycles	10,000 (tested)

/// PHYSICAL

Overall section	9.3 × 3.8mm (8mm PCB)
LED type	COB — continuous phosphor
Cutting unit	50mm
Min. bend diameter	Ø60mm
Copper	2oz FPC
Encapsulation	Curved silicone extrusion, IP65
Mounting	Mounting clips or channel
Supplied	Cut to length, 50mm steps up to 10m

/// STRIP LAYOUT



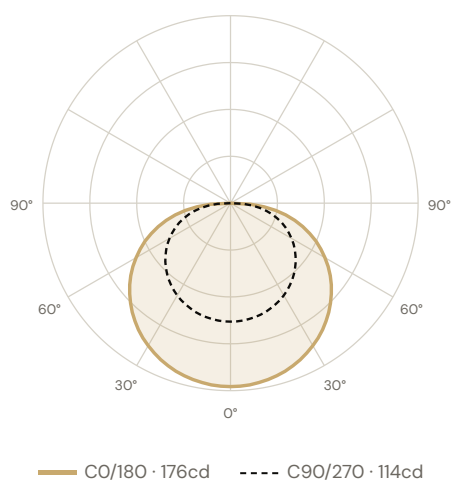
Cut only on the marked copper pads between units.

/// PHOTOMETRIC DATA

COLOUR	CCT	CRI	LM/M	LM/FT	LM/W	ERP 2019
Very Warm White	2700K	Ra >90	572	174	60	G
Warm White	3000K	Ra >90	627	191	65	G
Neutral White	4000K	Ra >90	653	199	68	G
Very Cool White	6500K	Ra >90	711	216	74	G

IP65 output shown — 88% of the bare-strip figure, measured at 1m to IES TM-30-15; tolerance ±10%. Bare-strip reference: 650 / 712 / 742 / 808 lm/m. ErP class is indicative.

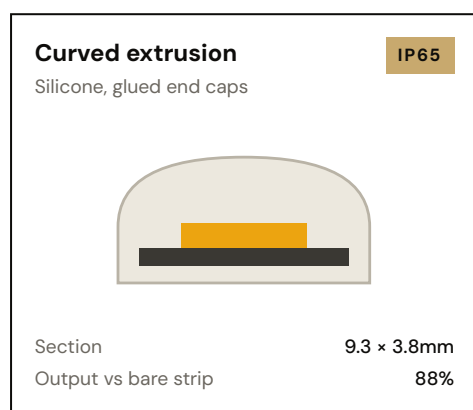
/// LIGHT DISTRIBUTION



DISTANCE	E AVG (LX)	E MAX (LX)	SPREAD Ø
1m	68.8	214.5	3.06m
2m	17.2	53.6	6.12m
3m	7.6	23.8	9.19m
4m	4.3	13.4	12.25m
5m	2.8	8.6	15.31m

1m sample · 512.7 lm flux out · 145° average beam (50%). Illuminance calculated at 113.7° field angle.

/// IP65 CONSTRUCTION



Rating	IP65 — dust tight, protected against water jets
Encapsulation	Curved-profile silicone extrusion over 8mm COB strip
Ends	Factory-sealed glued end caps
Feed cable	Pre-wired 2-core, 200mm–5000mm
CCT options	2700K · 3000K · 4000K · 6500K

/// ENVIRONMENT

Ambient (Ta)	–25°C to +40°C
Max. case temp (Tc)	75°C
Storage	0°C to +60°C, dry and sealed
Rated life	>60,000 hours

/// WARRANTY

Indoor installation	5 years — fitted in a suitable profile or heat sink
Outdoor installation	3 years
Certification	UKCA · CE · UL · RoHS · REACH

/// COMPATIBLE ACCESSORIES

ACCESSORY	DESCRIPTION
Pre-wired feed cable	2-core cable factory-fitted and sealed, 200mm to 5000mm.
Silicone end-cap kit	Feed-end and blind-end caps for 8mm curved silicone extrusion strip.
Mounting clip	Silicone clip with 3 × 8mm screw for 8mm strip and extrusion.
Mounting channel	Clear PVC groove for 8mm FPC and silicone extrusion strip.
Sealing silicone	Silicone gel for bonding end caps and resealing cut ends.

Any site-cut end must be capped and resealed with silicone gel to keep the IP65 rating. Order cut to length with cable fitted to avoid site sealing.

/// INSTALLATION

- Drive from a **24V DC isolated** constant-voltage driver with ripple below 5%.
- Size the driver with at least **20% headroom** — e.g. 5m at 42W needs ≥ 50W.
- Runs over 5m: feed from both ends (max 10m) to avoid voltage drop.
- Check polarity before power-up: 24V+ / 24V- marked on every pad.
- Cut only at the 50mm marks, then cap and reseal. Never fold or twist the strip, especially across the emitting face.
- Keep bends above **Ø60mm** for full life and reliability.
- Don't pull on lead wires; fix runs without strain on the feed.

/// HANDLING & CARE

- Store dry and sealed; unpack only at the point of installation.
- Not for immersion or permanently wet locations — IP65 only.
- Do not fix with acidic or alkaline adhesives such as glass cement.
- Clean the silicone with a damp cloth only — no solvents.
- Isolate mains supply before working on the driver.

/// ORDERING & PACKING

CODE	CCT	SUPPLY	SECTION (MM)	NET WEIGHT
ARC-COB10C-IP65	2700K / 3000K / 4000K / 6500K	Cut to length, 0–10m in 50mm steps	9.3 × 3.8	≈34g/m

Specify CCT, length and feed cable length when ordering. 24V driver not included. Lengths over 5m may contain a factory joint.

NOTE

Specifications are typical values with ±10% tolerance and may change without notice. For project-specific photometrics, driver sizing or custom lengths, contact the ArcLED team at arc-led.co.uk.