

CCT Tunable White COB LED Strip 48V 10mm 480LEDs/m IP20

Dot-free 10mm COB strip, 2700K to 6500K on one run, 20 metre run on a single feed

7Years Warranty	IP20 IP RATING	20M MAX RUN	50mm CUT	90+ HIGH CRI	CCT 2700-6500K	48V DC
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SPECIFICATION

LED type	COB LED Strip
Voltage	48V DC constant voltage
Section	10mm x 2mm, white FPC
LEDs per metre	480
Colour temperature	2700K to 6500K, tunable
Luminous flux	780 lm/m combined
Power	10 W/m
Efficacy	78 lm/W
CRI	Ra>90
Cut interval	Every 50mm
Maximum run	20m single feed
IP rating	IP20 — dry interiors only
Adhesive	3M Tape
Operating temperature	-25°C to 40°C
Life	50,000 hours
Warranty	7 Years
Certification	UKCA, CE, RoHS

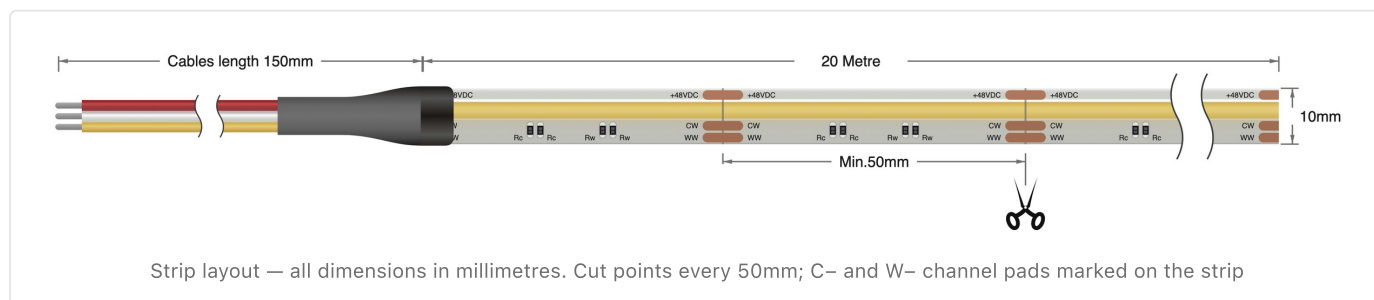


DESCRIPTION

Two channels of chips under one continuous phosphor line: balance warm against cool and the light sets anywhere from 2700K to 6500K on one run, with no dots. Three wires — one shared positive, one negative per channel.

The 780 lm/m headline is both channels at full, which lands mid-range. At either end only one channel is lit, so reckon on roughly 350 lm/m at 2700K and 400 lm/m at 6500K. Size the run on the end figure, not the headline.

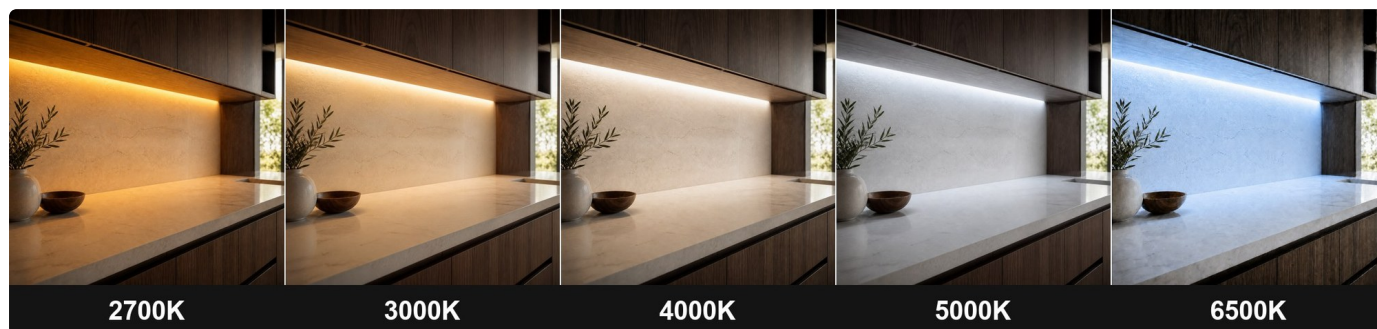
DIMENSIONS



If you require any advice for your project, feel free to get in touch — our technical team is here Monday to Friday, 9am–5pm on 01952 370028 or sales@atomled.co.uk.

What each setting in the range is for

One strip covers the whole range — the same room at five points along it



The same under-cabinet run, tuned to each of the five reference points

WHERE EACH ONE SUITS

2700K	Filament warmth. The evening setting for living rooms, bedrooms and hospitality.
3000K	Warm without going amber. Kitchens, under-cabinet runs and stair coving.
4000K	Neutral, and it reads colours honestly. Worktops, wardrobes and retail display.
5000K	A crisp working white for garages, workshops, utility rooms and cleaning.
6500K	The coldest in the range, close to daylight. Display cabinets, signage and benches.

Output is highest in the middle of the range, where both channels are lit. At 2700K and at 6500K only one channel is working, so the strip gives roughly half the headline figure — worth allowing for if the run will sit at one end of the range most of its life.

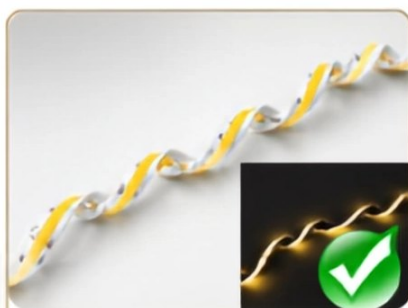
Handling and installation

Read before cutting, bending or powering the strip



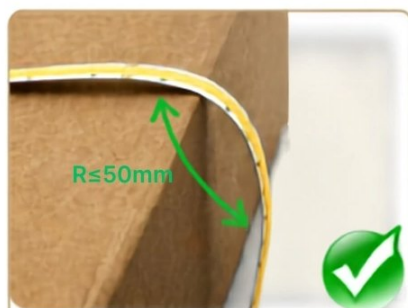
1

Straighten the COB tape light vertically during normal service.



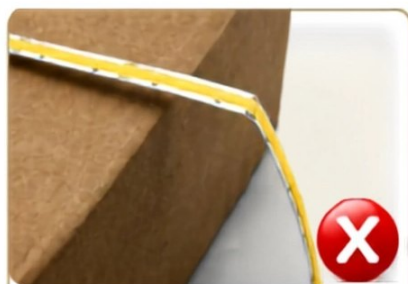
2

Radius of torsion $\geq 20\text{MM}$,
Angle of torsion: 1080°



3

During normal service, once need a turning, must hold the curve of COB tape light with its front side up and back side down.
(Attention: keep the curved radiant $\geq 50\text{mm}$)



4

Once need a turning, couldn't curved of 90 degree.



5

Do not bend at the solder pad.



6

The COB tape light can not be removed all from the reel, then install from the front end.

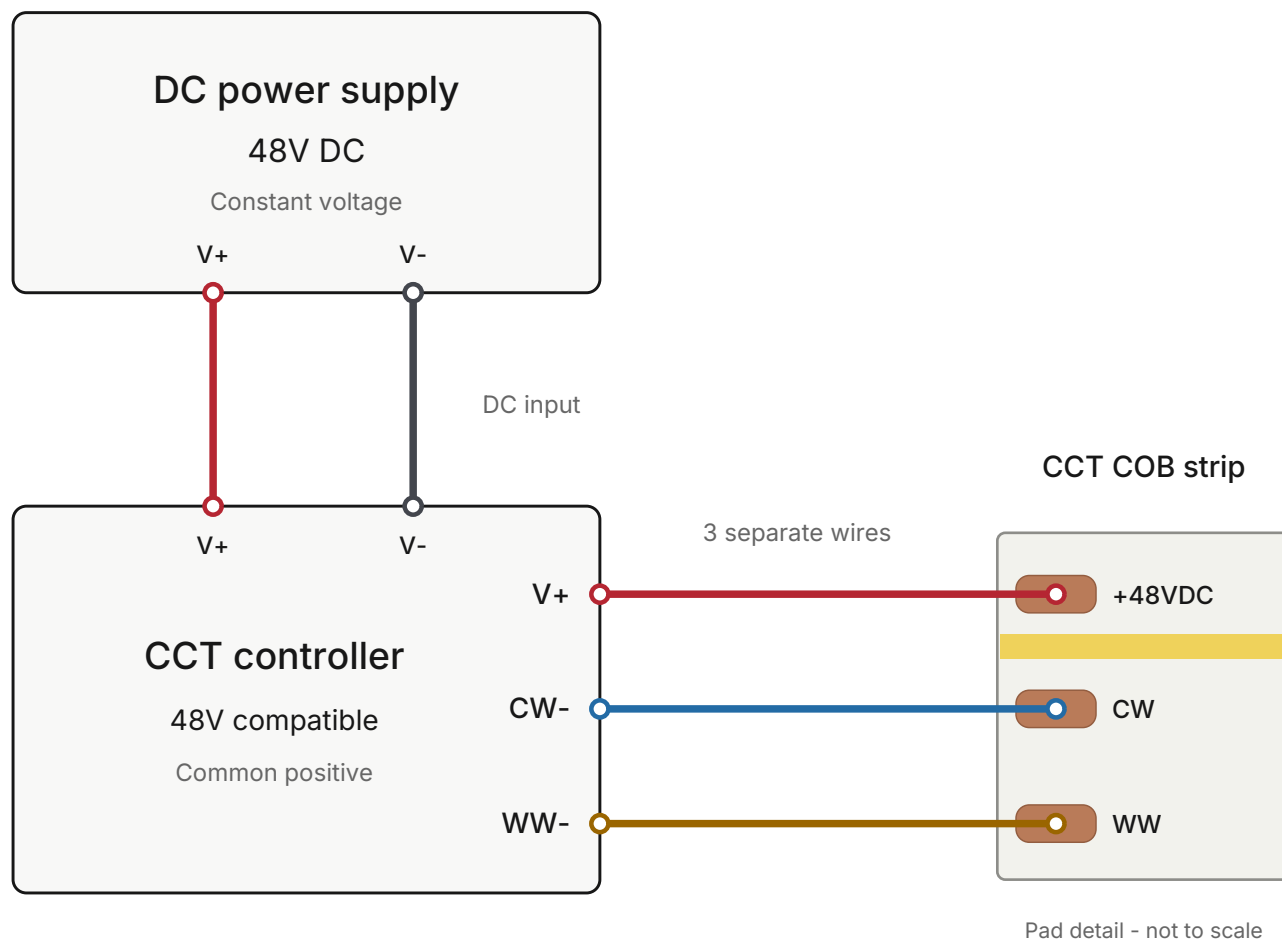
WARNING: Use only a 48V constant-voltage DC supply matching the voltage marked on the light. Never connect the DC light directly to 220-240V AC mains; incorrect voltage can damage it. Use an isolated driver.

- Three wires: one shared positive, one negative per channel, marked C- and W-. Bridging the negatives locks the colour.
- Colour is set by a two-channel CCT controller between driver and strip. A plain dimmer changes brightness only.
- Never power the strip while it is still coiled. Heat builds in the coil, lifts the adhesive and is a fire risk.
- IP20, so dry interiors only. It is not sealed against water: no bathroom zones, no splash zones, nothing outdoors.
- Cut only on the marked 50mm pads, and never bend at a solder pad.
- Mount in aluminium profile or on an insulating surface, never on bare metal without a barrier.
- Drop accrues at roughly half the 24V rate for the same load. Past 20 metres, feed both ends.

Damage caused by incorrect voltage or direct mains connection is not covered by warranty where ATOM LED is not at fault. ATOM LED Lighting Ltd accepts no liability for loss or damage caused by such connection where it is not at fault. This does not exclude liability for our negligence or breach of statutory duty, or affect your statutory rights.

CCT controller wiring

48V DC - three-wire strip connection



TERMINAL LEGEND

V+ / +48VDC

Shared positive

CW- / C-

Cool white channel

WW- / W-

Warm white channel

Use a 48V DC supply and a 48V-compatible common-positive CCT controller.

Match terminal labels, not wire colours. Keep CW- and WW- separate.

DC-side diagram only. Disconnect power before wiring.