FlowLite

Specification Sheet

FlowTone COB Tunable LED Tape Light



FlowTone COB Tunable is a tunable-white chip-on-board LED tape light that blends warm and cool phosphor into one continuous, dot-free line. Tune from 2700K to 5000K and dim on a single 10mm run, with up to 412 lumens per foot at 4.6 W/ft. 90 CRI, field cuttable every 1.97".

FEATURES & APPLICATIONS

- Tunable white, 2700K to 5000K
- Seamless, dot-free COB line of light
- 3-wire: V+, Cool White, Warm White
- Industry-leading 90 CRI (Color Rendering Index)
- Field cuttable at every 1.97 inch
- Circadian and human-centric lighting
- Coves, reveals and direct-view details
- 3-year warranty

Performance	
Color Temp	2700K–5000K
Watts/FT	4.6
Lumens/FT	412
Efficacy (Lm/W)	90
CRI	90

TECHNICAL INFORMATION

- **Power Consumption Per Foot:** 4.6 Watts
- **Input Voltage:** 24V DC
- **Light Source:** Dual-white COB
- **CRI (Color Rendering Index):** 90
- **Light Line:** Continuous, dot-free
- **Wiring:** 3 wires (V+, CW, WW)
- **PCB Width:** 0.39 inches (10mm)
- **Beam Angle:** 135°
- **Field Cuttable:** Every 1.97 inch (50mm)
- **Max Run Length:** 16.4 ft.
- **Dimmable:** Yes, 2-channel CCT
- **Board:** 3 oz copper flexible PCB
- **Mounting:** 3M™ Self-Adhesive Tape
- **Operating Temperature:** -13° F to 110° F
- **Spool Lengths:** 16.4 ft.
- **Environment:** Indoor, Dry (IP20)
- **Heat Sink:** Aluminum channel required
- **Lead Wire:** 6 in. pre-wired
- **Life:** 50,000 hours
- **Warranty:** 3 Year

ORDERING GUIDE

MODEL	CCT	ENVIRONMENT
FL-TCOB-24-		
	TW 2700K–5000K	**DRY** (BLANK)

REQUIRED ACCESSORIES

Requires a controller and an RF remote to operate:



FL-CTL-TW
Tunable White Controller

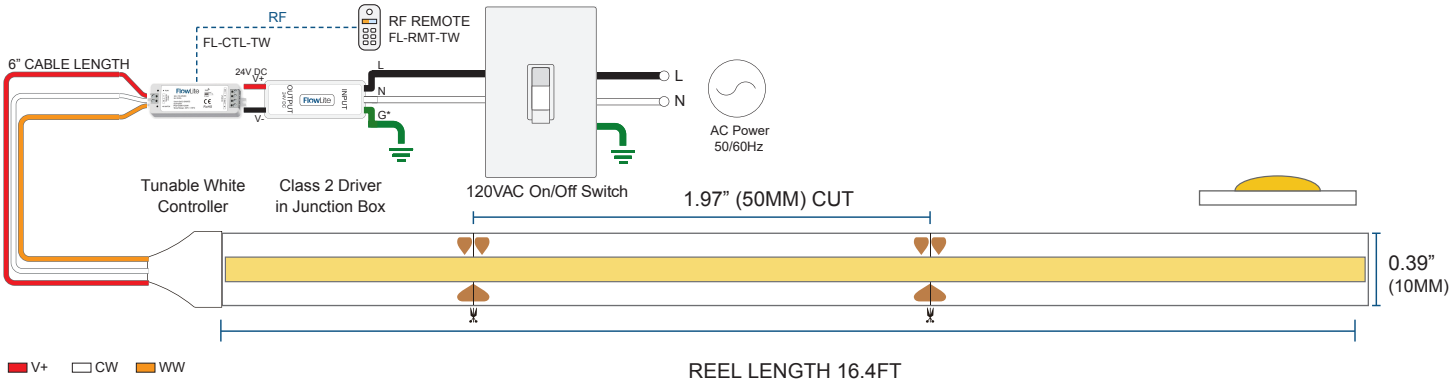


FL-RMT-TW
Tunable White RF Remote

Pictures and specifications: see page 3.

DIMMABLE · IP20 · 24V · 90 CRI · 135° · 3 Yrs Warranty

DIAGRAM & DIMENSIONS



VOLTAGE DROP GUIDANCE CHART

24V Voltage Drop & Wire Length Distance Chart (3% Drop or 23.28V)

WIRE GAUGE	10 W .42 A	20 W .83 A	30 W 1.3 A	40 W 1.7 A	50 W 2.1 A	60 W 2.5 A	70 W 2.9 A	80 W 3.3 A	90 W 3.75 A	100 W 4.2 A
20 AWG	85 ft.	43 ft.	27 ft.	21 ft.	17 ft.	14 ft.	12 ft.	11 ft.	9 ft.	8 ft.
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	15 ft.	14 ft.
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	24 ft.	22 ft.
14 AWG	345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	39 ft.	36 ft.
12 AWG	539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	61 ft.	56 ft.
10 AWG	784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	97 ft.	82 ft.

Note: These tables provide general guidelines for determining Wire Gauge based on total load and distance from LED driver to beginning of luminaire.

SAFETY, WARNINGS, AND DISCLOSURES

Install in accordance with national and local electrical code regulations.

This product to be powered with ELECTRONIC DRIVER ONLY

This product is intended to be installed and serviced by a qualified, licensed electrician.

Only use copper wiring. Use wires rated for at least 176°F 80°C and certified for use with external connection of electrical equipment.

Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

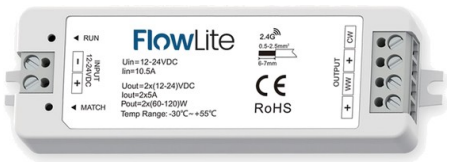
Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.

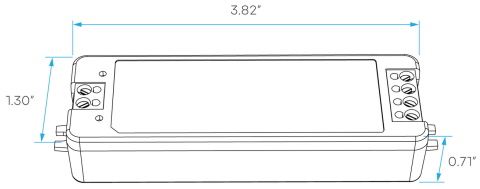
Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

REQUIRED ACCESSORIES

This Tunable White tape needs both items below to operate. The controller drives its warm and cool white channels; the RF remote pairs with the controller. See the wiring diagram on page 2.





Product photo and dimensions

FL-CTL-TW

Tunable White Controller

Inline RF controller. Tunes between warm and cool white and dims 0–100%; installs between the 24V DC driver and the tape.

Input	12–24V DC
Control	RF wireless remote
Function	CCT tuning, 0–100% dimming
Finish	White
Dimensions	3.82” × 1.30” × 0.71”
Operating temperature	-22°F to 131°F
Warranty	5 year

FL-RMT-TW

Tunable White RF Remote

Handheld RF remote for the FL-CTL-TW controller: white tuning and dimming.

Control	RF wireless
Pairs with	FL-CTL-TW controller
Dimensions	4.21” × 2.30” × 0.35”