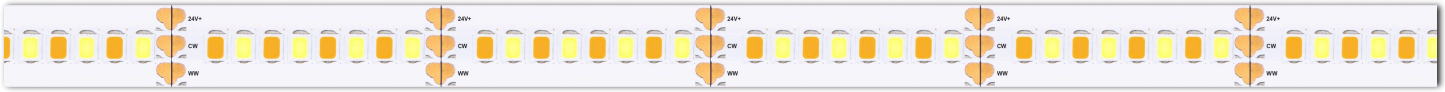
FlowLite

# Specification Sheet

## FlowTone Tunable 7.0 LED Tape Light



**FlowTone Tunable 7.0** is a high-density, high-output tunable-white LED tape light that shifts from warm 2700K to crisp 5000K on one run. 73 alternating warm and cool 2835 SMD diodes per foot deliver up to 841 lumens per foot at 7.0 W/ft. 90 CRI, field cuttable every 1.31".

## FEATURES & APPLICATIONS

- Tunable white, 2700K to 5000K
- High density, 73 LEDs per foot
- High output, 841 lumens per foot
- 3-wire: V+, Cool White, Warm White
- Field cuttable at every 1.31 inch
- Circadian and human-centric lighting
- Offices, hospitality and healthcare
- 3-year warranty

| Performance | |
|---|---|
| **Color Temp** | 2700K–5000K |
| **Watts/FT** | 7.0 |
| **Lumens/FT** | 841 |
| **Efficacy (Lm/W)** | 120 |
| **CRI** | 90 |

## TECHNICAL INFORMATION

- **Power Consumption Per Foot:** 7 Watts
- **Input Voltage:** 24V DC
- **Diodes per foot:** 73
- **CRI (Color Rendering Index):** 90
- **Diode Spacing:** 0.16 inches
- **Wiring:** 3 wires (V+, CW, WW)
- **PCB Width:** 0.39 inches (10mm)
- **Beam Angle:** 120°
- **Field Cuttable:** Every 1.31 inch (8 chips)
- **Max Run Length:** 16.4 ft.
- **Dimmable:** Yes, 2-channel CCT
- **Diode Type:** 2835 SMD, dual-white
- **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-T70-24-** | | |
| | **TW** 2700K–5000K | **DRY** (BLANK) |

## REQUIRED ACCESSORIES

Requires a controller and an RF remote to operate:

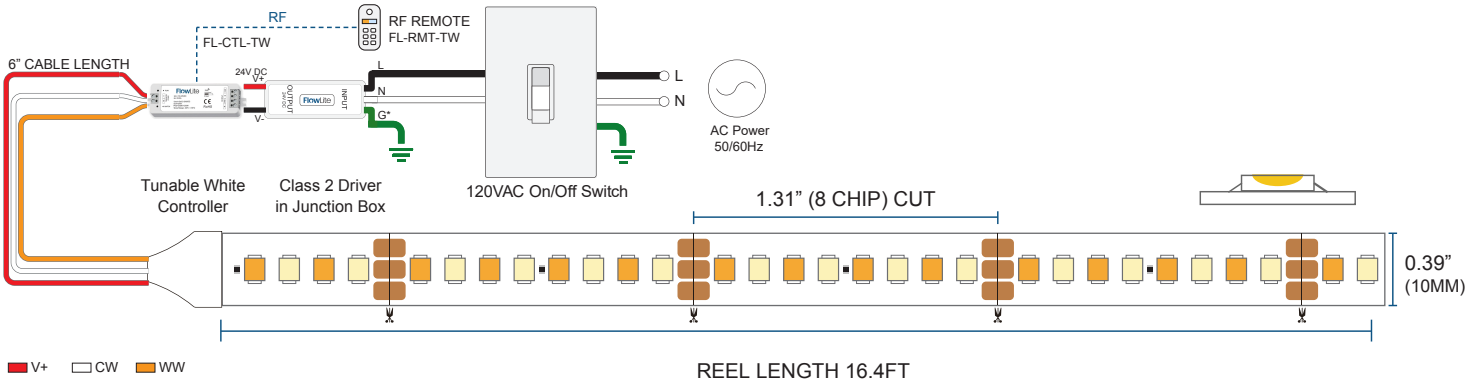
**FL-CTL-TW**
Tunable White Controller

**FL-RMT-TW**
Tunable White RF Remote

Pictures and specifications: see page 3.

DIMMABLE · IP20 · 24V · 90 CRI · 120° · 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.

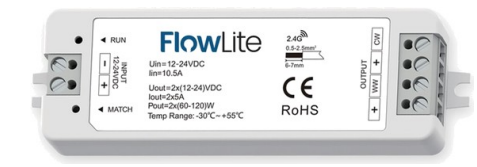
Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.

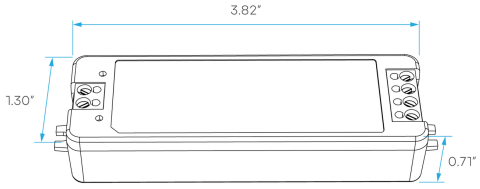
Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

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” |