FlowLite

Specification Sheet

FlowColor RGB+Tunable White LED Tape Light



FlowColor RGB+Tunable White is a full-color plus tunable-white LED tape light. Each group pairs an RGB 3535 diode with warm and cool white 2216 diodes, 29 groups per foot, for saturated color or clean white from 2700K to 6500K on one 12mm, 6-conductor run. 90 CRI white, cuttable every 2.46".

FEATURES & APPLICATIONS

- Full RGB color plus tunable white
- White tunable from 2700K to 6500K
- 6-wire: V+, R, G, B, Warm White, Cool White
- 29 RGB + dual-white groups per foot
- Field cuttable at every 2.46 inch
- Hospitality, retail and entertainment
- Cove, accent and feature lighting
- 3-year warranty

Performance

Color Temp	RGB + 2700–6500K
Watts/FT	7.0
Lumens/FT	366
Efficacy (Lm/W)	52
CRI	90

TECHNICAL INFORMATION

- **Power Consumption Per Foot:** 7 Watts
- **Input Voltage:** 24V DC
- **LED Groups per foot:** 29 (3 chips per group)
- **CRI (Color Rendering Index):** 90 (white)
- **Group Spacing:** 0.41 inches
- **Wiring:** 6 wires (V+, R, G, B, WW, CW)
- **PCB Width:** 0.47 inches (12mm)
- **Beam Angle:** 120°
- **Field Cuttable:** Every 2.46 inch (6 groups)
- **Max Run Length:** 16.4 ft.
- **Dimmable:** Yes, via RGB+Tunable White controller
- **Diode Type:** RGB 3535 + white 2216
- **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	COLOR	ENVIRONMENT
FL-C70-24-	☐	☐
	RGBTW RGB + 2700–6500K	**DRY** (BLANK)

REQUIRED ACCESSORIES

Requires a controller and an RF remote to operate:



FL-CTL-RGBW
RGB+Tunable White Controller

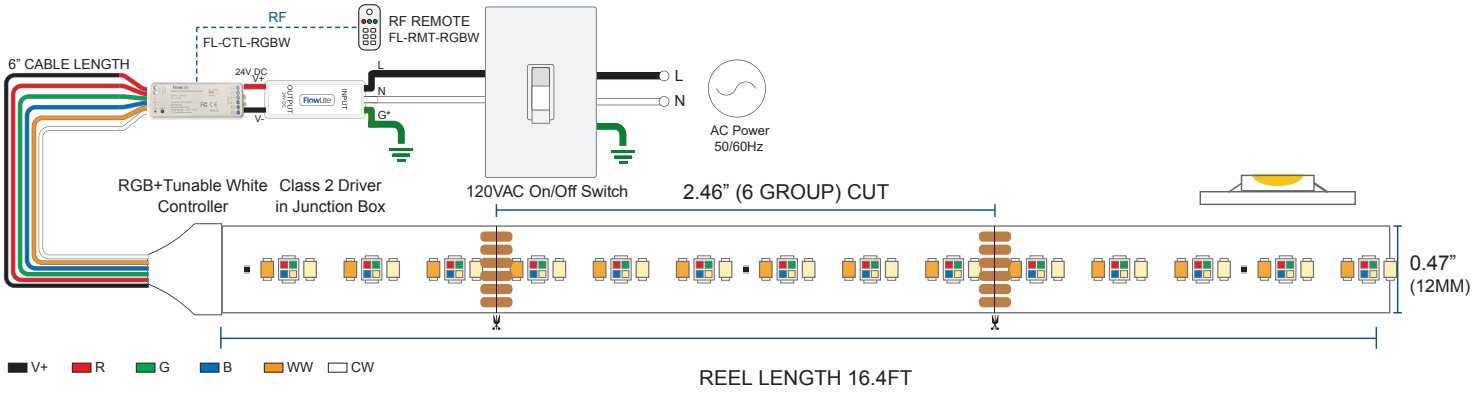


FL-RMT-RGBW
RGB+Tunable White RF Remote

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.

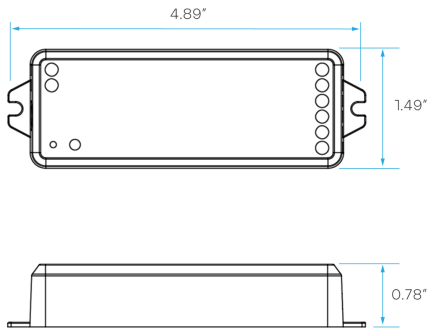
Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

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





Product photo and dimensions

FL-CTL-RGBW

RGB+Tunable White Controller

Inline RF controller. Sets RGB color, tunes white and dims; installs between the 24V DC driver and the tape.

Input	12–24V DC (from a constant-voltage driver)
Control	RF wireless remote
Function	RGB color, tunable white, dimming
Dimensions	4.48” × 1.49” × 0.78” (4.89” long with mounting tabs)
Operating temperature	-4°F to 131°F

FL-RMT-RGBW

RGB+Tunable White RF Remote

Handheld RF remote for the FL-CTL-RGBW controller: color, white tuning and dimming.

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