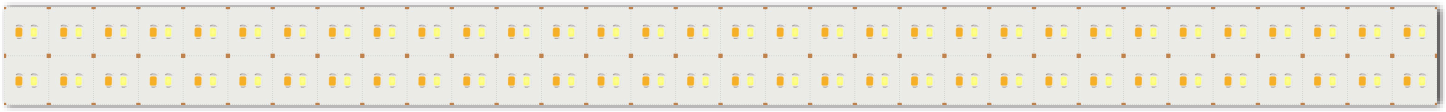
FlowLite

Specification Sheet

FlowTile Tunable LED Light Sheet



FlowTile Tunable is a flexible, tunable-white LED light sheet for even backlighting of stone, glass, acrylic and fabric. A 12" × 24" matrix of alternating warm and cool 2216 SMD diodes tunes from 2700K to 6500K, delivers 1,380 lumens per sq ft, and cuts on a 0.75" grid into L, T or X shapes.

FEATURES & APPLICATIONS

- Tunable white, 2700K to 6500K
- Flexible 12" × 24" sheet, bends to curves
- Cut on a 0.75" grid: L, T and X shapes
- 3-wire: V+, Cool White, Warm White
- 1,380 lumens per sq ft, 90 CRI
- IP54 damp-location rating
- Backlit onyx, glass, ceilings and walls
- 3-year warranty

Performance

2700–6500K	Per Sheet	Per Sq Ft
Watts	24	12
Lumens	2,760	1,380
Efficacy (Lm/W)	115	115
CRI	90	90

TECHNICAL INFORMATION

- **Power:** 24 W per sheet (12 W/sq ft)
- **Input Voltage:** 24V DC
- **Current:** 1 A per sheet
- **CRI (Color Rendering Index):** 90
- **LED Density:** 2 × 256 per sq ft
- **Wiring:** 3 wires (V+, CW, WW)
- **Sheet Size:** 12 in. × 24 in.
- **Beam Angle:** 116°
- **Field Cuttable:** 0.75 in. × 0.75 in. grid
- **Max per Driver:** 3.5 sheets per 96 W driver
- **Dimmable:** Yes, 2-channel CCT
- **Diode Type:** 2216 SMD, dual-white
- **Mounting:** 3M™ adhesive or mini screws
- **Operating Temperature:** -13° F to 110° F
- **Format:** Flexible light sheet
- **Environment:** Indoor, Damp (IP54)
- **Lead Wire:** 6 in. pre-wired
- **Life:** 50,000 hours
- **Warranty:** 3 Year

ORDERING GUIDE

MODEL	SIZE	ENVIRONMENT
FL-FT-24-TW-		
	1X2 12" × 24" SHEET	**(BLANK)** IP54 DAMP

REQUIRED ACCESSORIES

Requires a controller and an RF remote to operate:

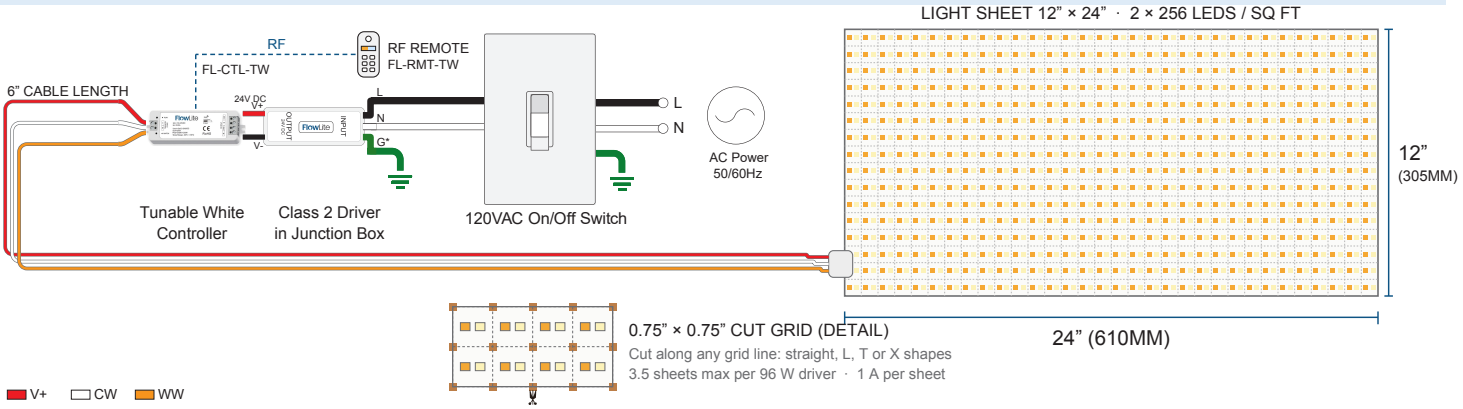
FL-CTL-TW
Tunable White Controller

FL-RMT-TW
Tunable White RF Remote

Pictures and specifications: see page 3.

DIMMABLE · IP54 · 24V · 90 CRI · 116° · 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.

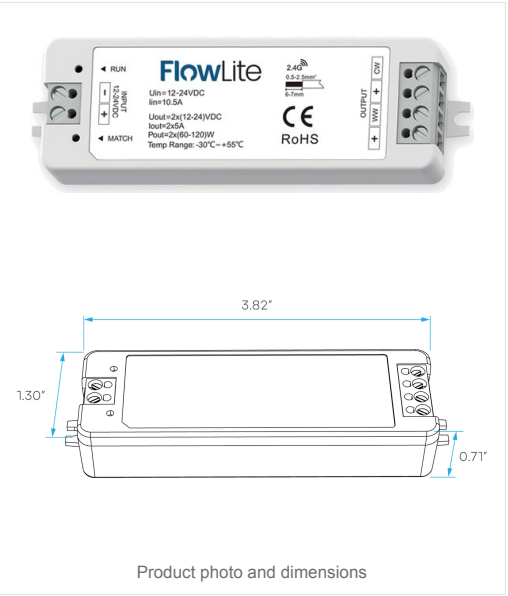
Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.

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 light sheet 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 light sheet.

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”