Lumaris Tunable White Tape Light

The Lumaris tunable white tape light takes scene control to the next level, offering a simple and seamless way to add tunable white accent lighting to Lutron connected home projects.

Built on the ultra-reliable Lutron Clear Connect–Type X wireless technology, the Lumaris tunable white tape light is a native component within the Lutron platform including controls, apps, programming software, and the Lutron Connect cloud services.

A complete Lumaris tunable white tape light solution consists of field-cut tunable white tape, a wireless controller with integrated LED drivers, high-reliability punch connectors, dedicated wiring, and a plug-in power supply. LED tape aluminum mounting channel and lens sold separately by others.
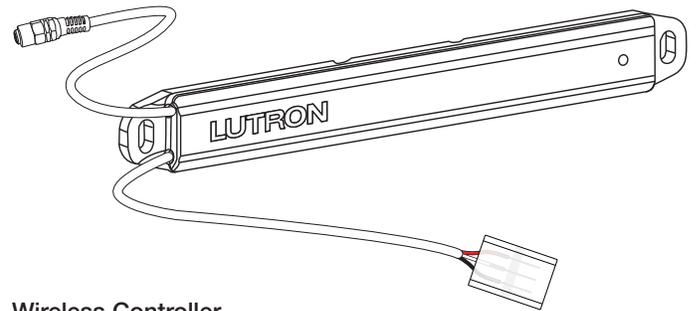

Wireless Controller

Power Supply   **LED Tape**

## Features

Lighting System

- Seamless integration with HomeWorks QSX and Radio RA3

- User programmable intensity and color temperature presets

- Warm dim to mimic the dimming curve of an incandescent lamp

- Automatically changes color temperature based on time of day

- Manual adjustments via the app or integration

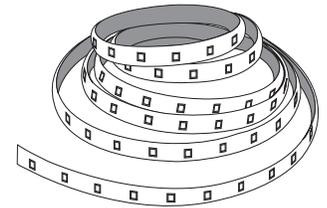### Wireless Controller (with plug-in power supply)

- Continuous, flicker-free dimming from 100% down to 0.1% of measured light output [1]

- 32 W rated load (16.4 ft [5 m] of LED tape)

- 50,000 hours rated lifetime [2]

- Ambient operating temperature: 32°F to 104°F (0°C to 40°C)

- Uses Clear Connect–Type X wireless communication

- Output short-circuit and overload-protection

- Low profile, easy to hide

- Barrel jack connection for easy installation
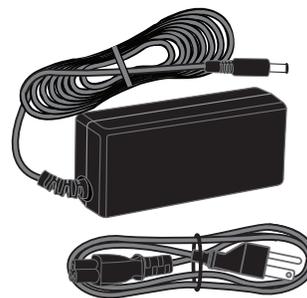
LED Tape

- 2-channel tunable white

- Two tape ranges available:
  - Soft White Tape: 1800K – 3000K
  - Daylight Tape: 2500K – 5000K

- 90+ CRI (color rendering index)

- 3 step MacAdam ellipse (SDCM)

- Lumen output: 200 lumens per foot typical

- Luminous efficacy: 100 lumens per Watt typical

- Power consumption: 1.8 Watts per foot typical

- Rated life: L70 – 50,000 hours

- 2 in (50.8 mm) cuttable segments

- Strong VHB adhesive

- Indoor damp/dry location rated

- Wardrobe closet rated

[1] Tunable white performance is maintained from 100% to 1%.

[2] Plug-in power supply lifetime is rated for 50,000 hours in up to a 77 °F (25 °C) ambient temperature. Increasing ambient temperature may degrade lifetime.

Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)

Lumaris Tunable White Tape Light

Model Numbers

Model Number		Description
HomeWorks QSX	**RadioRA 3**	
HWL-TLK-SW	RRL-TLK-SW	Soft White Kit • Wireless controller (with plug-in power supply) • Soft white LED tape (1800 K - 3000 K) - 16.4 ft (5 m) reel • Wire / tape connectors (5 pack) • 3 conductor cable - 10 ft (3 m)
HWL-TLK-DL	RRL-TLK-DL	Daylight Kit • Wireless controller (with plug-in power supply) • Daylight LED tape (2500 K - 5000 K) - 16.4 ft (5 m) reel • Wire / tape connectors (5 pack) • 3 conductor cable - 10 ft (3 m)
HWL-TWC-WH	RRL-TWC-WH	Wireless controller (including power supply)
LU-TO5-SW		Soft white LED tape (1800 K - 3000 K) - 16.4 ft (5 m) reel
LU-TO5-DL		Daylight LED tape (2500 K - 5000 K) - 16.4 ft (5 m) reel
LU-CK1-TW		Wire / tape connectors (10 pack)
LU-MK1		Mounting clips (20 pack)
LU-WK1-TW		3 x 22 AWG (0.50 mm^2) cable - 50 ft (15.2 m)

NOTE: LED tape aluminum mounting channel and lens sold separately by others.

Specifications

Regulatory Approvals

- Power Supply
  - cULus Listed for USA and Canada
  - FCC Part 15 Class B compliant
  - ICES-003 compliant
  - US DoE Level VI compliant
  - Limited Power Supply
- Wireless Controller
  - cULus Listed for USA and Canada
  - FCC Part 15 Class B & C compliant
  - ICES-003 compliant
- Tunable white LED tape
  - cULus Listed for USA and Canada
    · Indoor damp / dry location rated
    · Wardrobe closet rated
  - FCC Part 15 Class B compliant
  - ICES-003 compliant

Electrical

- Power Supply
  - Input: 120 V$\sim$ 50 / 60 Hz, 1 A max
  - Output: 24 V⎓ 1500 mA, 36 W max
- Wireless Controller
  - Input: 24 V⎓
  - Output: 24 V⎓ 0–1333 mA, 32 W max

Warranty

- The warranty will not cover issues caused by use of incompatible devices (including non-Lutron LED tapes and/or power supplies).
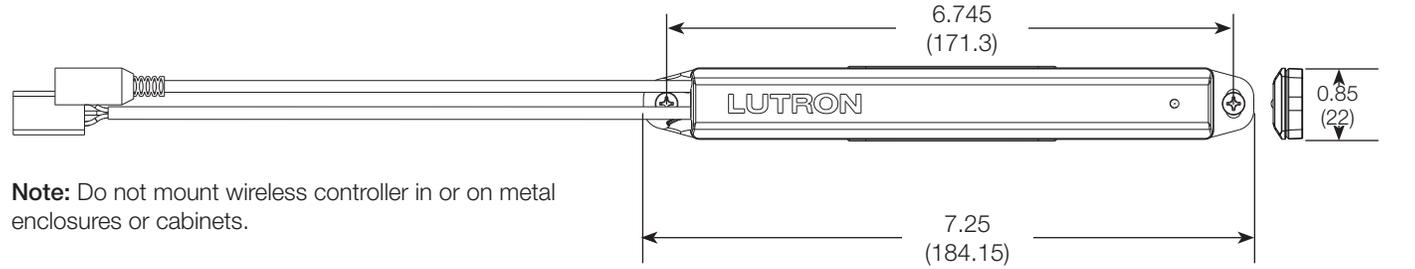
Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)

Lumaris Tunable White Tape Light

Dimensions

All dimensions shown as: in (mm)

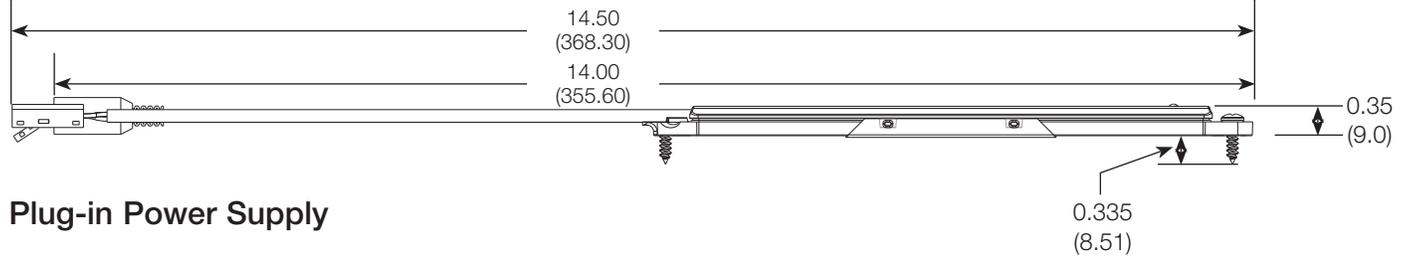### Wireless Controller (HWL-TWC-WH or RRL-TWC-WH)

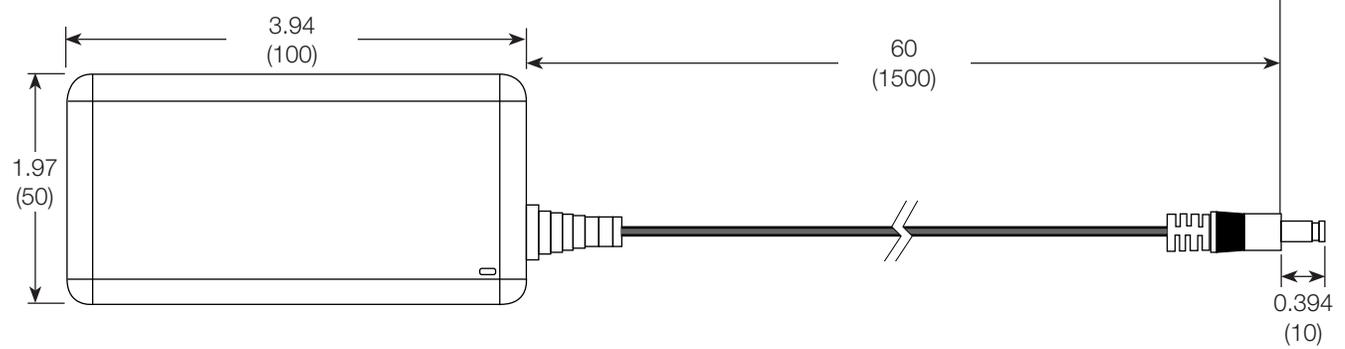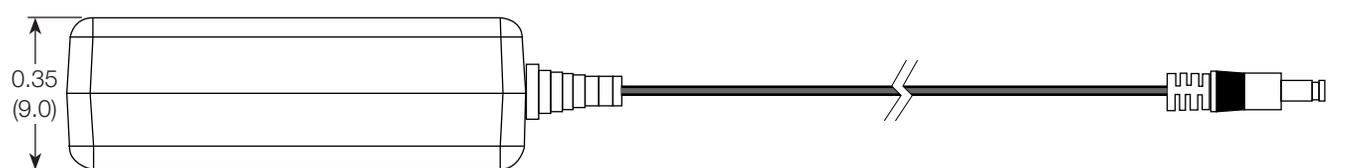**Top View**   **End View**

6.745
(171.3)

LUTRON

0.85
(22)

Note: Do not mount wireless controller in or on metal enclosures or cabinets.

7.25
(184.15)

Side View

14.50
(368.30)

14.00
(355.60)

0.35
(9.0)

0.335
(8.51)

Plug-in Power Supply

Top View

3.94
(100)

60
(1500)

1.97
(50)

0.394
(10)

Side View

0.35
(9.0)

Power Cord

1 ft
(0.305 m)

Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)
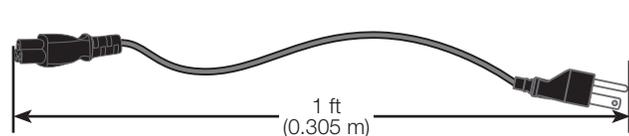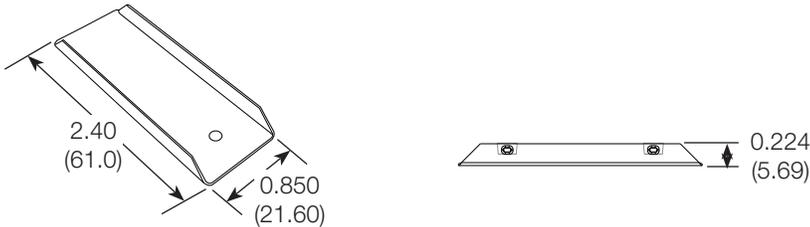
Lumaris Tunable White Tape Light

Dimensions *(continued)*

All dimensions shown as: in (mm)

Wireless Controller Mounting Bracket
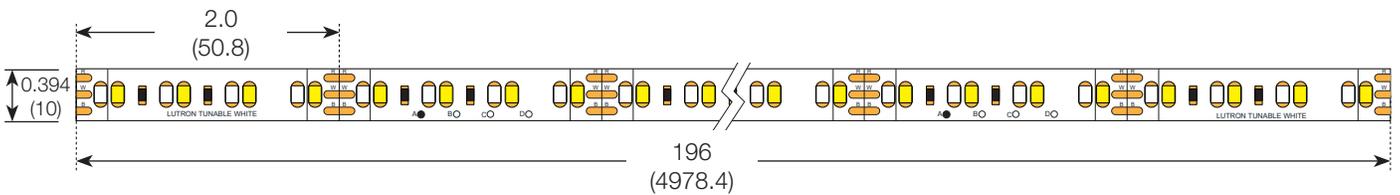
2.40
(61.0)

0.850
(21.60)

0.224
(5.69)

Wireless Controller Mounting Screw

0.27
(6.85)

0.093
(2.36)

0.50
(12.7)

0.138
(3.5)
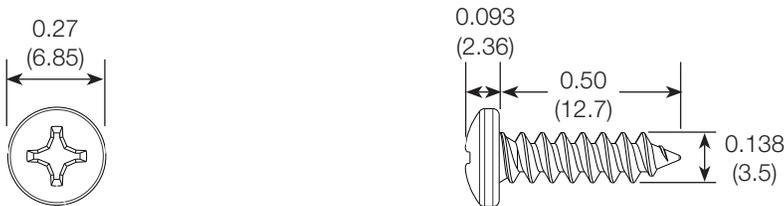
Wire to Tape Connector (LU-CK1-TW)

0.52
(13)

0.28
(7)

0.85
(22)
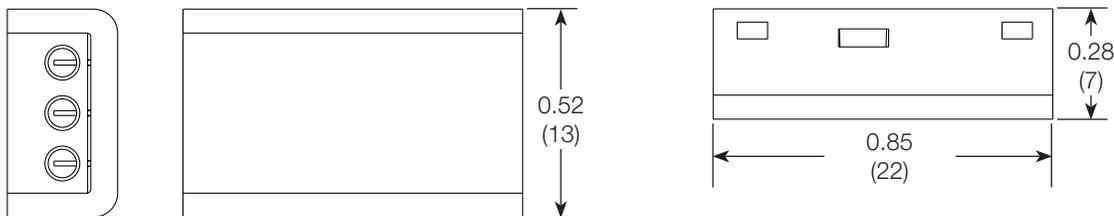
LED Tape (LU-T05-SW or LU-T05-DL)
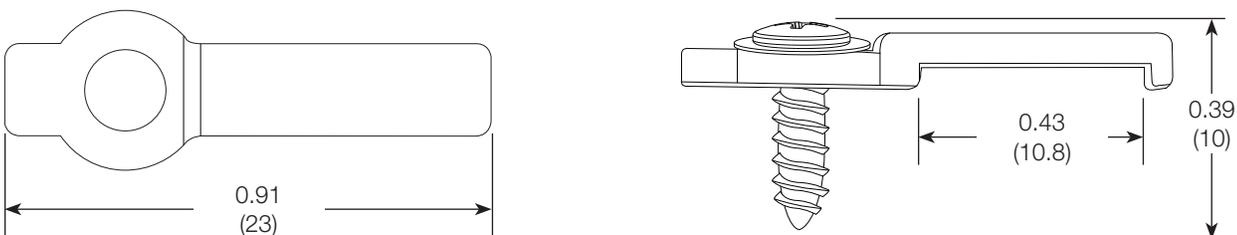
2.0
(50.8)

0.394
(10)

LUTRON TUNABLE WHITE

A● B○ c○ D○

A● B○ c○ D○

LUTRON TUNABLE WHITE

196
(4978.4)

Mounting Clip (LU-MK1)

0.91
(23)

0.43
(10.8)

0.39
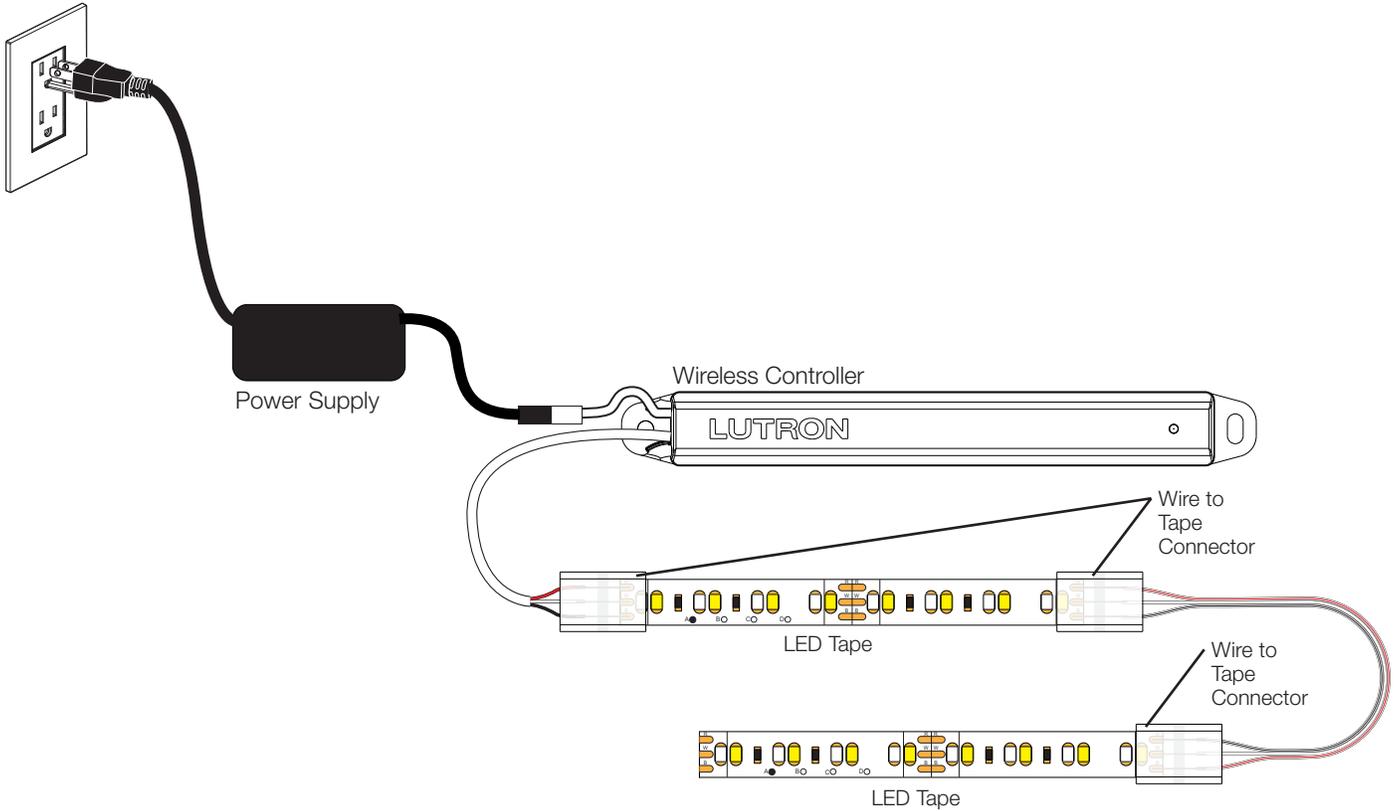(10)

Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)

Lumaris Tunable White Tape Light

Wiring

- The length of the 24 V⎓ cable coming from the power supply may be extended by cutting the plug ends off both the power supply and the wireless controller and adding cable of the appropriate gauge, from the table below to account for the distance.

Maximum Wire Length From the Power Supply to the Wireless Controller: ft (m)				
12 AWG (4.0 mm²)	14 AWG (2.5 mm²)	16 AWG (1.0 mm²)	18 AWG (0.75 mm²)	20 AWG (0.50 mm²)
42.5 (13)	26.5 (8)	17 (5.2)	10.5 (3.2)	6.5 (2)

- Maximum amount of cable allowed on the output of wireless controller is 10 ft (3.0 m). The cable can be added to the beginning or can be used to break up runs of tape light.

- 3 x 22 AWG (0.50 mm²) stranded cable is provided with the tape light kits or it can be ordered as Lutron P/N LU-WK1-TW

- For every wire-to-tape connector that is used on the output of a wireless controller, beyond 6, the maximum length of cable allowed is reduced by 6 in (152.4 mm).

- Maximum length of tunable white tape light is 16.4 ft (5m) total, regardless of whether tape is in a single run or broken up by cables.

Customer Assistance:
1.844.LUTRON1 (U.S.A. / Canada)
+44.(0)20.7680.4481 (Europe)