

Lumaris Tunable White Tape Light

The Lumaris 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 tape light is a native component within the Lutron platform including controls, apps, programming software, and Lutron Connect cloud services.

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

Features

Lighting System

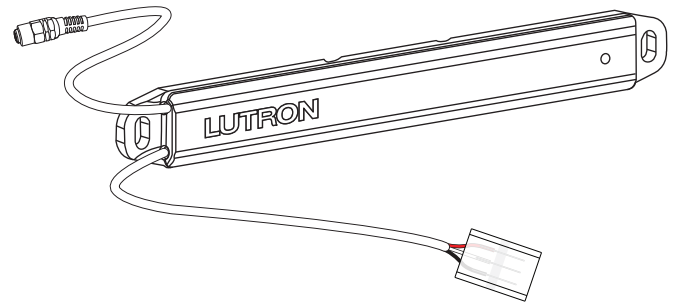
- Seamless integration with HomeWorks QSX and RadioRA 3
- User programmable intensity and color temperature presets
- Warm dim to mimic the dimming curve of an incandescent lamp
- Automatically changes color temperature based on time of day
- Manual adjustments via the app or integration

Wireless Controller (with plug-in power supply)

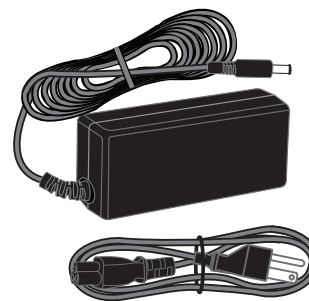
- Continuous, flicker-free dimming from 100% down to 0.1% of measured light output¹
- 32 W rated load (16.4 ft [5 m] of LED tape)
- 50,000 hours rated lifetime²
- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C)
- Uses Clear Connect–Type X wireless communication
- Output short-circuit and overload-protection
- Low-profile, easy to hide
- Barrel connector for easy installation

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

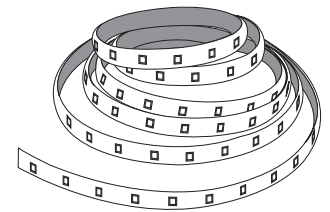
² Plug-in power supply lifetime is rated for 50,000 hours in up to a 77 °F (25 °C) ambient temperature. Increasing ambient temperature may degrade lifetime.



Wireless Controller



Power Supply



LED Tape

LED Tape

- 2-channel tunable white
- Two color temperature ranges available:
 - Soft White: 1800 K – 3000 K
 - Daylight: 2500 K – 5000 K
- 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 W 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

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Model Numbers

Model Number		Description
HomeWorks QSX	RadioRA 3	
HWL-TLK-SW	RRL-TLK-SW	Soft White Kit <ul style="list-style-type: none"> • Wireless controller (with plug-in power supply) • Soft white LED tape (1800 K - 3000 K) - 16.4 ft (5 m) reel • Wire/tape connectors (qty. 5) • 3 conductor cable - 10 ft (3 m)
HWL-TLK-DL	RRL-TLK-DL	Daylight Kit <ul style="list-style-type: none"> • Wireless controller (with plug-in power supply) • Daylight LED tape (2500 K - 5000 K) - 16.4 ft (5 m) reel • Wire/tape connectors (qty. 5) • 3 conductor cable - 10 ft (3 m)
HWL-TWC-WH	RRL-TWC-WH	Wireless controller (including power supply)
LU-T05-SW		Soft white LED tape (1800 K - 3000 K) - 16.4 ft (5 m) reel
LU-T05-DL		Daylight LED tape (2500 K - 5000 K) - 16.4 ft (5 m) reel
LU-CK1-TW		Wire/tape connectors (qty. 10)
LU-MK1		Mounting clips (qty. 20)
LU-WK1-TW		3 x 22 AWG (0.50 mm ²) cable - 50 ft (15.2 m)

NOTE: Aluminum mounting channel and lens for LED tape 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
- Soft White/Daylight Kit (HWL-TLK-DK, HWL-TLK-SW, RRL-TLK-DL, RRL-TLK-SW)
 - When combined, the wireless controller and either of the Tunable White LED tapes comply with California Title 24 requirements as detailed in Reference Joint Appendix JA8 for High Luminous Efficacy Light Sources

Electrical

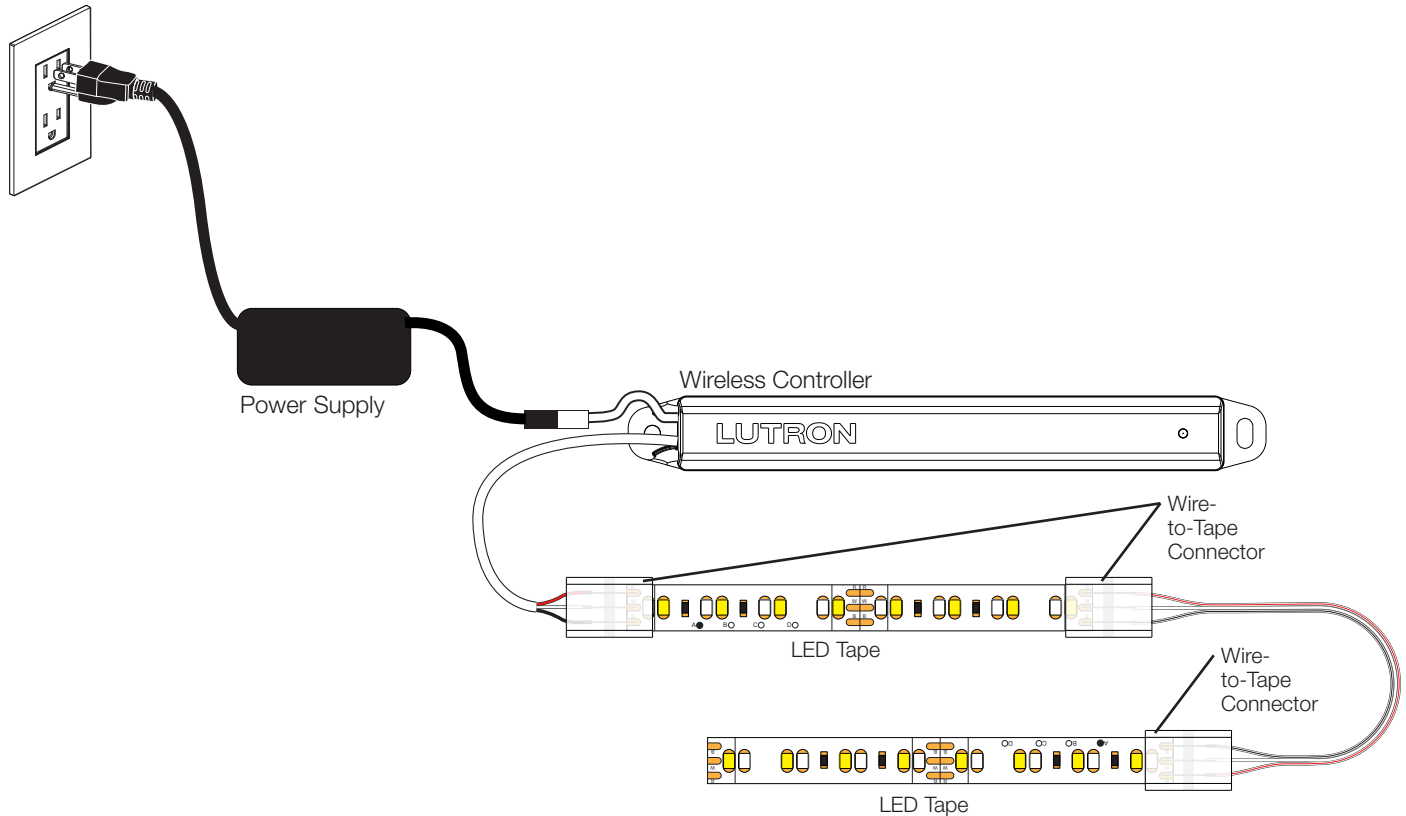
- Power Supply
 - Input: 100–240 V \sim 50/60 Hz 1 A max
 - Output: 24 V \equiv 1.5 A
- Wireless Controller
 - Input: 24 V \equiv 1.5 A
 - Output: 24 V \equiv 1.33 A 32 W max

Warranty

- The warranty will not cover issues caused by use of incompatible devices (including non-Lutron LED tape and/or power supplies).

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Wiring



- The length of the 24 V_{DC} 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 mm ²)	14 AWG (2.5 mm ²)	16 AWG (1.0 mm ²)	18 AWG (0.75 mm ²)	20 AWG (0.50 mm ²)
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 segments of LED tape.
- 3 x 22 AWG (0.50 mm²) stranded cable is provided with the tape light kit 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 LED tape light is 16.4 ft (5 m) total, regardless of whether LED tape is in a single segment or broken up by cables.

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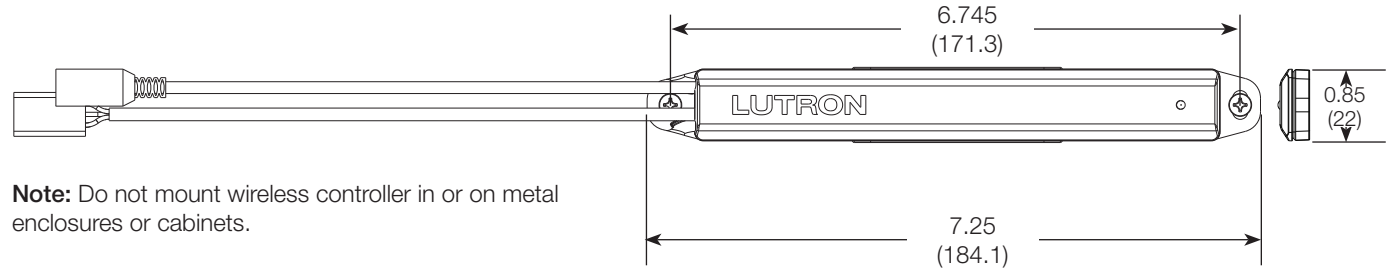
Dimensions

All dimensions shown as: in (mm)

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

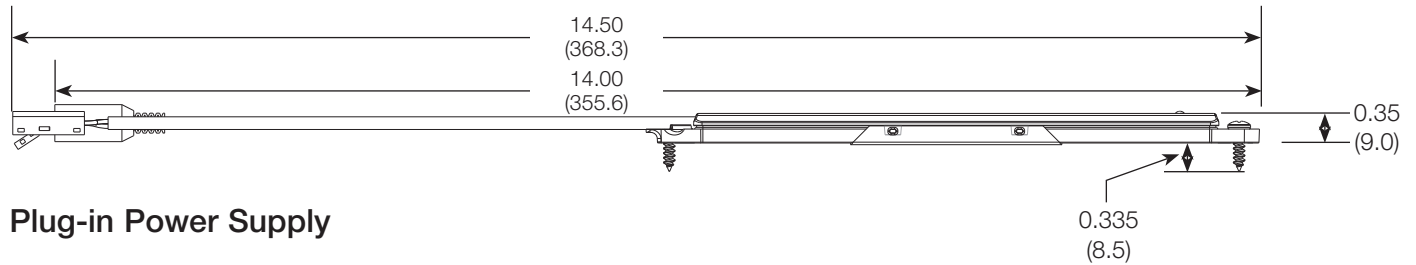
Top View

End View



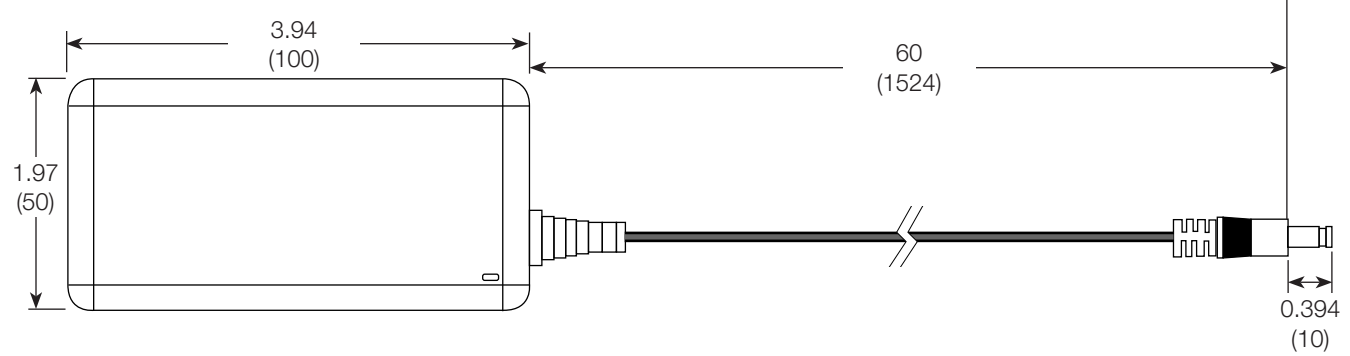
Note: Do not mount wireless controller in or on metal enclosures or cabinets.

Side View

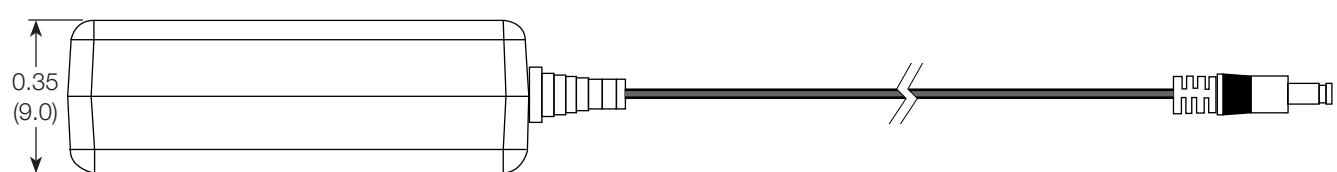


Plug-in Power Supply

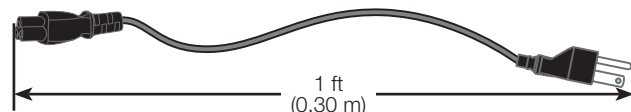
Top View



Side View



Power Cord



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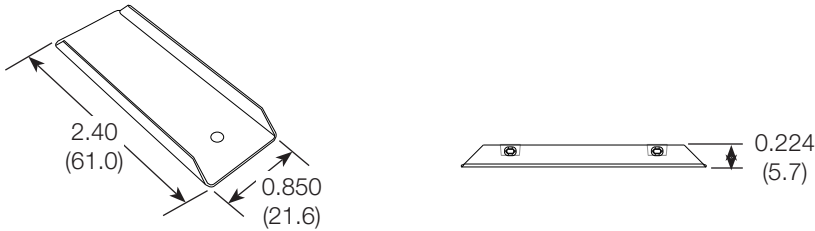
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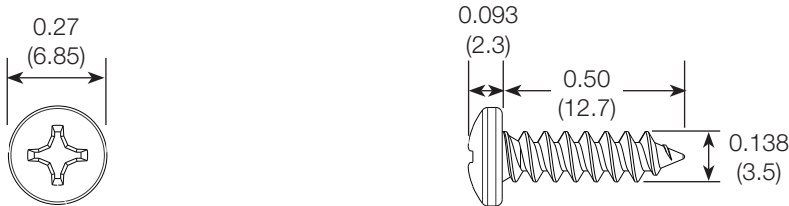
Dimensions *(continued)*

All dimensions shown as: in (mm)

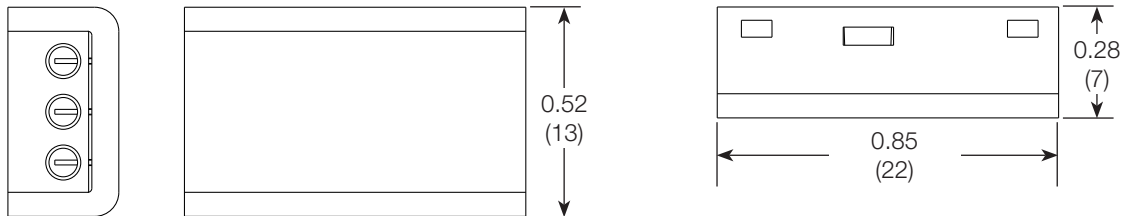
Wireless Controller Mounting Bracket



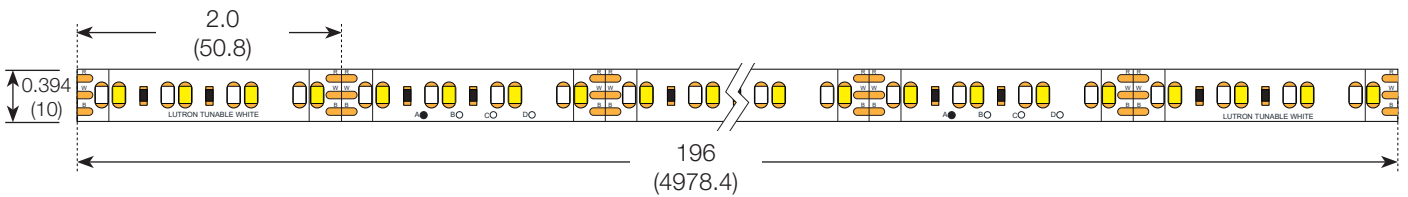
Wireless Controller Mounting Screw



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



LED Tape (LU-T05-SW or LU-T05-DL)



Mounting Clip (LU-MK1)

