

2-Wire Control, 120 Volt
T4 Quad and Triple Tube Compact Lamps
T8 Linear Lamps



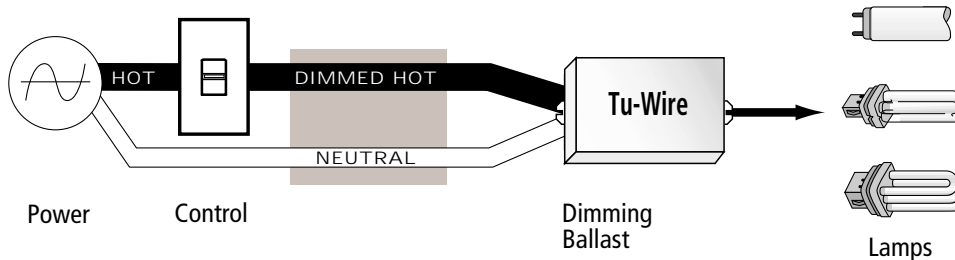
T8 Linear - One and Two Lamp
1.18" w (30mm) x 1.00" h (25mm) x 18.00" l (457mm)



T4 - One Lamp
3.00" w (76mm) x 1.00" h (25mm) x 4.90" l (124mm)



T4 - Two Lamp
3.00" w (30mm) x 1.00" h (25mm) x 6.75" l (171mm)



<p>JOB NAME:</p> <p>JOB NUMBER:</p>	<p>MODEL NUMBERS:</p>
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DESCRIPTION

- Continuous, flicker-free, 100%-5% high-performance dimming meets the needs of a wide variety of lighting designs
- 2-wire line-voltage control technology supplies both power and control simplifying installation
- Inrush current limiting circuitry eliminates circuit breaker tripping, switch arcing, and relay failure
- End-of-lamp-life protection circuitry helps ensure safe operation throughout entire lamp life cycle
- Lamp-starting protection circuitry helps prevent lamp starting under insufficient input voltage conditions
- Lamps turn on at any dimmed level without flashing to full light eliminating nuisance flashing
- 1" high, low-profile design for use in low-profile architectural fixtures—meets fixture manufacturers' standards
- 100% performance tested prior to shipment
- 3-Year warranty
- Field service commissioning (option 1) – extends warranty to 5 years (limited)
- Designed and assembled in the USA
- Ballasts that dim T4 compact fluorescent lamps are intended for factory installation by Lutron OEM fixture partners

PERFORMANCE

- Dimming range: 100% - 5%
- Ballast factor greater than .85 (compact ballasts) equal to 1.0 (linear ballasts)
- Total harmonic distortion less than 20%
- Power factor greater than .95
- Lamp current crest factor less than 1.7
- No visible lamp flicker
- Class A sound rating
- Minimum lamp starting temperature 10°C

STANDARDS


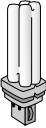

- UL listed, CSA approved, Class P thermally protected
- Meets ANSI C82.11 Ballast Standard
- Meets FCC EMI/RFI emission requirements for commercial applications
- Meets ANSI C62.41 Category A surge protection standards
- ISO 9001 registered

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TU-WIRE BALLASTS

LAMPS	WATTS/ LENGTH	LAMPS PER BALLAST	BALLAST CURRENT ¹	HI-LUME MODEL NUMBER	MOUNTING STUDS ²
T8 LINEAR  1" Diameter	32W/48"	1	.37A	2W-T832-120-1	
		2	.70A	2W-T832-120-2	
T4 4-PIN QUAD TUBE  1/2" Diameter	18W	2	.41A	2W-T418-120-2-	S
	26W	1	.27A	2W-T426-120-1-	S
		2	.53A	2W-T426-120-2-	S
	T4 4-PIN TRIPLE TUBE  1/2" Diameter	18W	2	.41A	2W-T418-120-2-
26W		1	.27A	2W-T426-120-1-	S
		2	.53A	2W-T426-120-2-	S
32W		1	.33A	2W-T432-120-1-	S
	2	.58A	2W-T432-120-2-	S	

¹ For maximum number of ballasts per control, divide the control's capacity by the sum total of all ballast currents

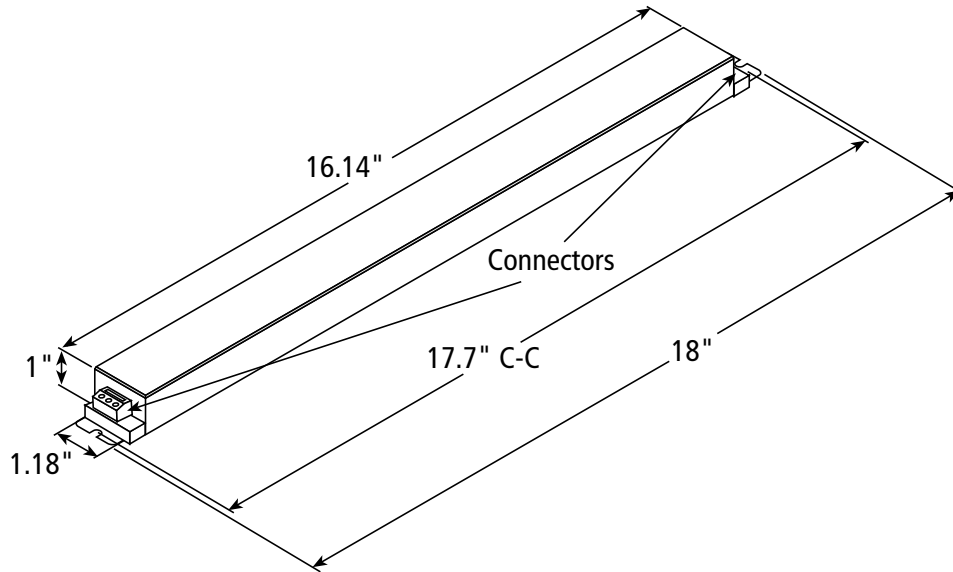
² Mounting studs may be required for proper mounting. Verify with fixture manufacturer if studs are needed.



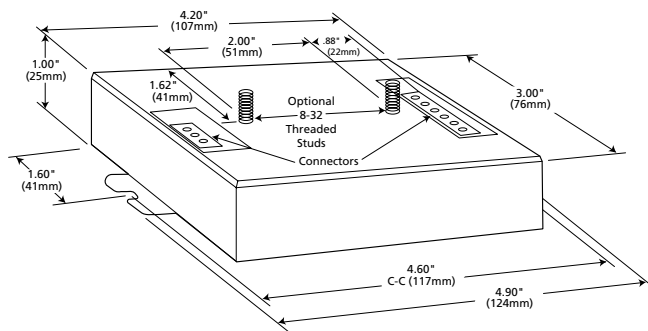
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DIMENSIONS

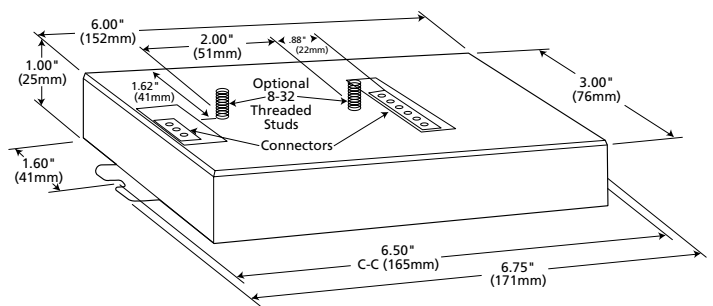
One and Two Lamp T8 Linear Ballasts



One Lamp T4 Compact Ballasts



Two Lamp T4 Compact Ballasts



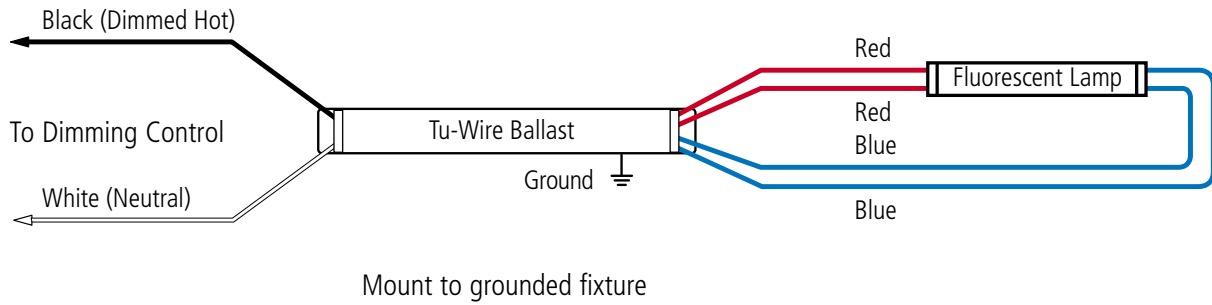
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BALLAST WIRING

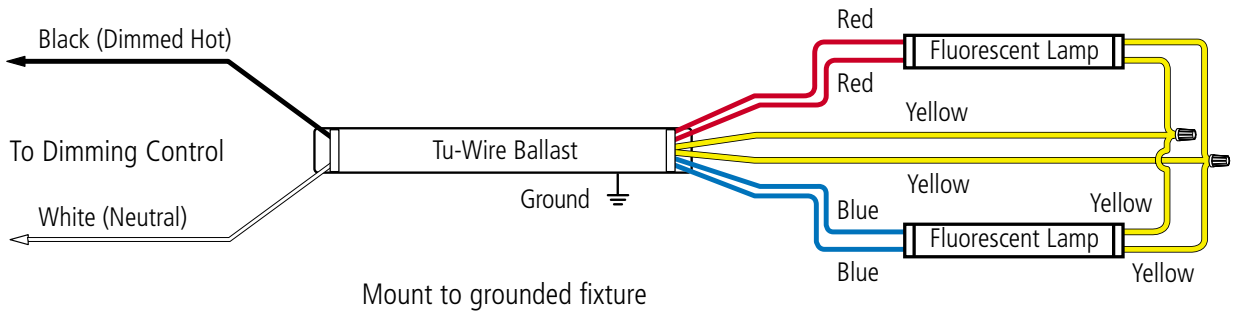
Note: Wire colors shown are for Lutron controls and ballasts only.

Note: For T8 linear lamps, maximum lamp to ballast wire length is 7 feet (2m). For T4 Compact lamps, maximum lamp to ballast wire length is 3 feet (1m).

One Lamp Linear Fluorescent



Two Lamps Linear Fluorescent



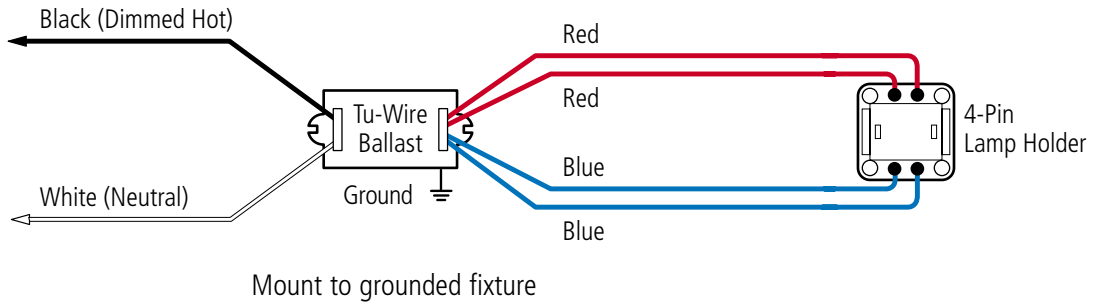
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BALLAST WIRING

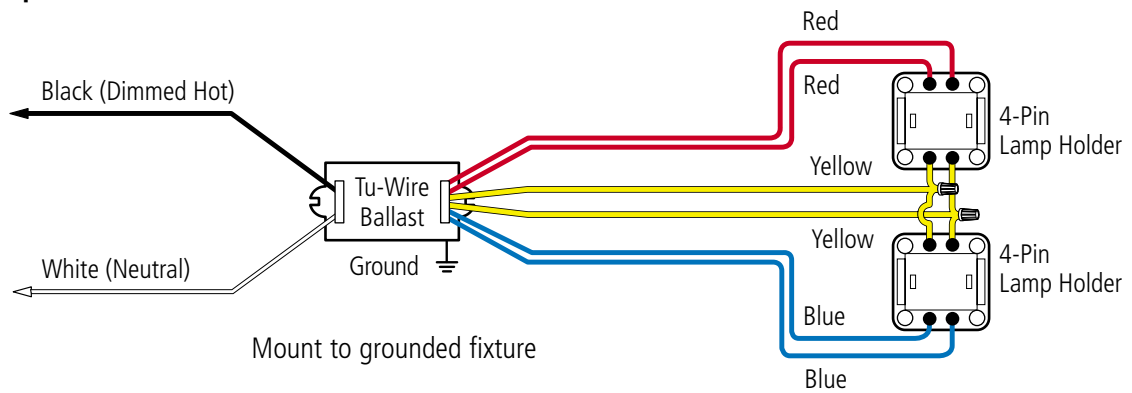
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One Lamp Compact Fluorescent



Two Lamp Compact Fluorescent



Control wire colors do not necessarily match ballast wire colors (e.g. control "dimmed hot" may be yellow and ballast "dimmed hot" may be orange).

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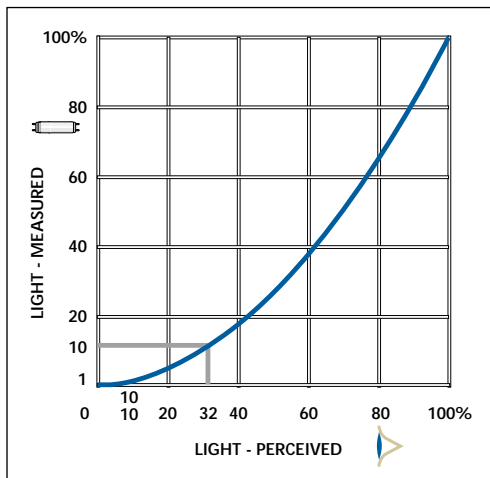


ATTENTION SPECIFIERS:

APPLICATION NOTES

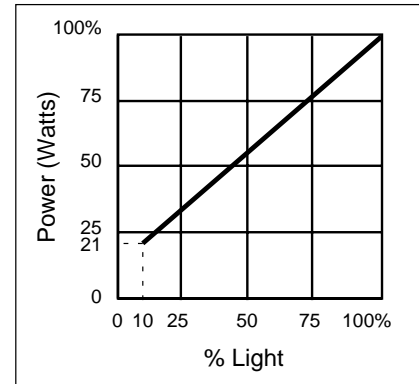
Perceived vs. Actual Light

An important aspect of lighting control is the difference between measured and perceived light levels. For example, a light dimmed to 10% output is perceived by the eye as 32%. A light dimmed to 1% is perceived as 10%. This "Square Law" phenomenon takes advantage of how the human eye functions to achieve significant energy savings, while improving the visual environment.



Power vs. Light

The nearly linear relationship between fluorescent light levels and power consumption saves energy proportionately as lights are dimmed.



SPECIFICATIONS

Rapid-Start Sockets Must Be Used

Rapid-start type sockets must be used to provide proper lamp filament heating and dimming operation.

Quality knife-edge sockets are recommended for new and retrofit applications to ensure positive lamp/pin contact.

Mixing Ballast and Lamps per Circuit

For optimal dimming performance, do not mix ballast lamp types (T4, or T8) on a given circuit.

Do not mix ballast types on a given circuit (i.e., mix Hi-lume with Eco-10 or Tu-Wire).

Number of Ballasts per Control

For maximum number of ballasts per control, divide control's current capacity by the individual ballast current. Certain controls also have a specific number of ballast maximums.

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**ATTENTION CONTRACTORS
AND ELECTRICIANS:**



ATTENTION FACILITIES MANAGER:

INSTALLATION

Ballast/Socket Leads

Lead lengths from electronic dimming ballast to socket must not exceed 7' (2m) for T8 linear lamps and 3' (0.9m) for T4 compact lamps.

Lamp Mounting

Many fluorescent lamp sockets are available with mounting slots to vary the height of the lamp away from the grounded metal surface. Use these slots to get the outside edge of the lamp to be 1/2" +/- 1/4" away from the grounded metal surface.

Having a fluorescent lamp too close to the grounded metal will make the minimum intensity too low and will reduce lamp life.

Having a fluorescent lamp too far away from the grounded metal will make the lamp flicker or not turn on at all.

Wiring and Grounding

All wiring from the dimming control to the Hi-lume® Ballasts is Class 1 and may be run together in the same conduit.

Ballast and lighting fixture must have a positive electrical contact with ground.

Ballasts must be installed per national and local electrical codes.

PERFORMANCE

Lamps Must Be Seasoned

New Lamps must be operated ("seasoned") for 100 hours at full light output prior to dimming to achieve proper dimming performance and ensure average rated lamp life.

Ballast Operating Temperature

Ballast case temperature must not exceed 75°C at any point on ballast.

SERVICE

Replacement Parts

Use replacement parts with exact Lutron model numbers. Consult Lutron if you have any questions.

Further Information

Ballasts for other lamp types and voltages may be available; consult Lutron for further information.

For further information on dimming ballast applications, consult Lutron's Ballast Fluorescent Dimming Systems Guide (publication 366-606).

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