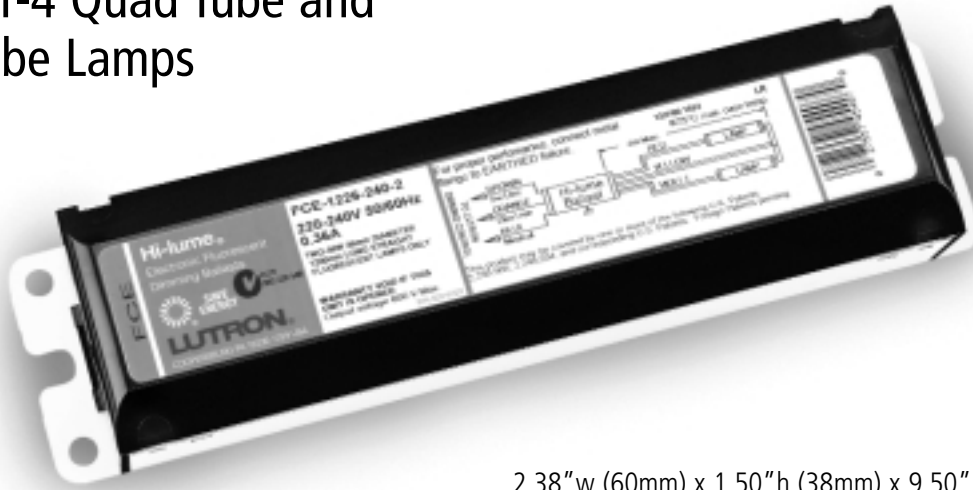
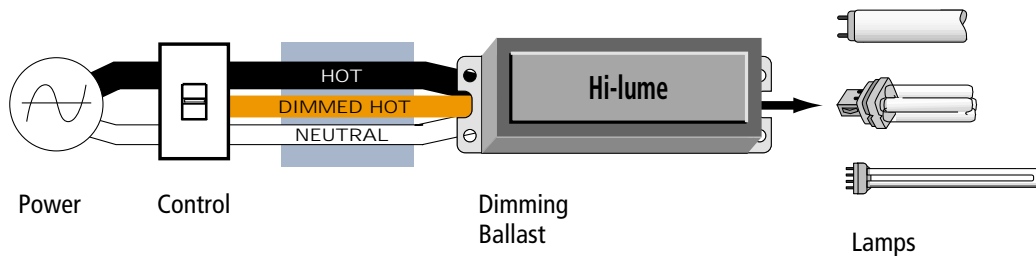


## 3-Wire Control, 220/240 Volt T-8 Linear, T-4 Quad Tube and T-5 Twin Tube Lamps



2.38" w (60mm) x 1.50" h (38mm) x 9.50" l (241mm)



### DESCRIPTION

- Continuous, flicker-free, 100%-1% dimming to meet the needs of the most demanding architectural lighting designs
- 3-wire line-voltage control technology for most consistent fixture-to-fixture dimming performance
- Low harmonic distortion throughout entire dimming range to maintain power quality
- Inrush current limiting circuitry to eliminate circuit breaker tripping, switch arcing, and relay failure
- Lamps turn on at any dimmed level without flashing to full light to eliminate nuisance flashing
- Miswire protection to eliminate potential failures caused by improper installation
- Ultra quiet operation
- 100% performance tested prior to shipment
- 3-Year warranty
- Optional field service commissioning available – extends warranty to 5 years (limited)
- Designed and assembled in the USA.

### LUTRON<sup>®</sup> SPECIFICATION SUBMITTAL

Page

<b>JOB NAME:</b>	<b>MODEL NUMBERS:</b>
<b>JOB NUMBER:</b>	


## PERFORMANCE

- Dimming range: 100% - 1%
- Ballast factor greater than .85
- Total harmonic distortion less than 10%
- Power factor greater than .95
- Lamp current crest factor less than 1.7
- No visible lamp flicker
- Class A sound rating
- Continuous ballast case operating temperature 75°C
- Minimum lamp starting temperature 10°C

## STANDARDS

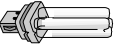

- UL listed, CSA approved, Class P thermally protected
- Meets ANSI C82.11 High Frequency Ballast Standard
- Meets FCC EMI/RFI emission requirements for commercial applications
- Meets ANSI C62.41 Category A surge protection standards
- ISO 9001 Certified

## HI-LUME 1% ARCHITECTURAL DIMMING BALLASTS

LAMPS	WATTS/ LENGTH	LAMPS PER BALLAST	BALLAST CURRENT <sup>1</sup>	HI-LUME MODEL NUMBER
 26mm <b>T8 LINEAR AND U-TUBE</b>	18W/600mm	1	.10A	FCE-0626-240-1
		2	.21A	FCE-0626-240-2
	36W/1200mm	1	.20A	FCE-1226-240-1
		2	.36A	FCE-1226-240-2
	58W/1500mm	1	.25A	FCE-1526-240-1
		2	.44A	FCE-1526-240-2

<sup>1</sup> For maximum number of ballasts per control, divide the control's current capacity by the individual ballast current.

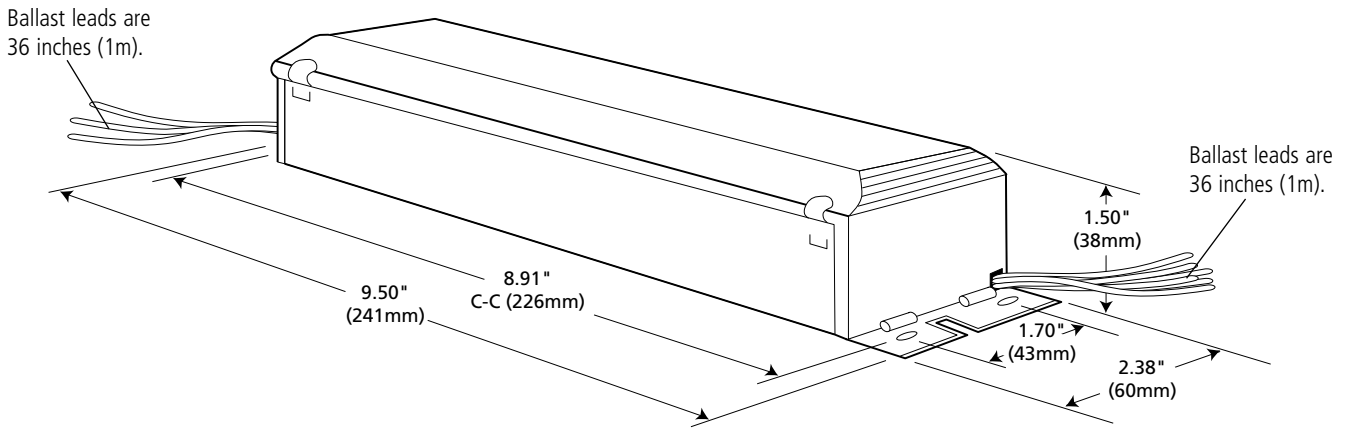
## HI-LUME COMPACT 5% HIGH PERFORMANCE DIMMING BALLASTS

LAMPS	WATTS/ LENGTH	LAMPS PER BALLAST	BALLAST CURRENT <sup>1</sup>	HI-LUME MODEL NUMBER
 1/2" diameter <b>T4 4-PIN QUAD TUBE</b>	26W/130mm	1	.13A	FCE-CF26-240-1
		2	.23A	FCE-CF26-240-2
	18W/110mm	1	.11A	FCE-CF18-240-1
		2	.18A	FCE-CF18-240-2
 5/8" diameter <b>T5 TWIN TUBE</b>	36W/400mm	1	.18A	FCE-CFL36-240-1
		2	.32A	FCE-CFL36-240-2

<sup>1</sup> For maximum number of ballasts per control, divide the control's current capacity by the individual ballast current.

<b>JOB NAME:</b>  <b>JOB NUMBER:</b>	<b>MODEL NUMBERS:</b>
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## HI-LUME® MODELS



**Note:** For T5-HO, T8 and T12 linear lamps, maximum lamp to ballast wire length is 7 feet (2m). For T4 Compact and T5 Twin Tube lamps, maximum lamp to ballast wire length is 3 feet (1m).

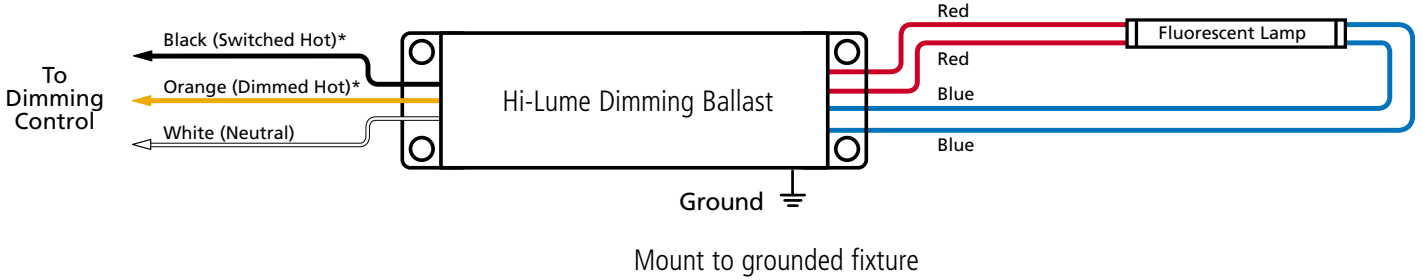
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## BALLAST WIRING

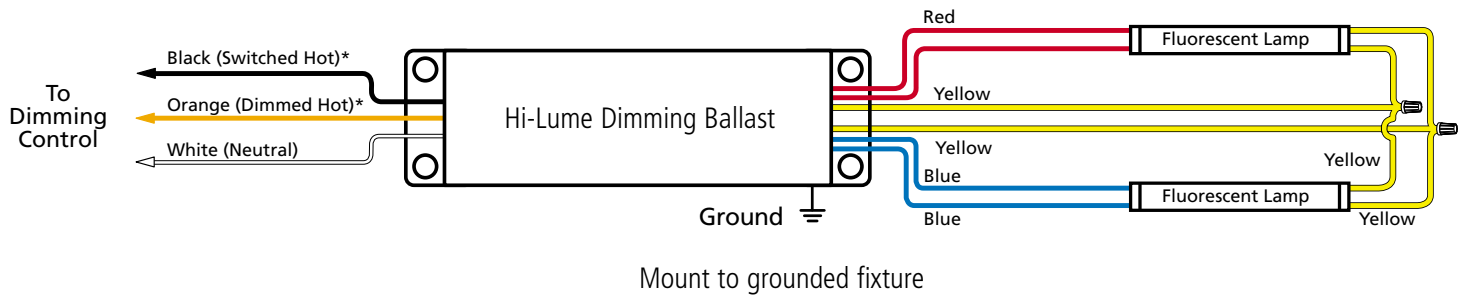
**Note:** Wire colors shown are for Lutron controls and ballasts only.

**Note:** For T5-HO, T8 and T12 linear lamps, maximum lamp to ballast wire length is 7 feet (2m). For T4 Compact and T5 Twin Tube lamps, maximum lamp to ballast wire length is 3 feet (1m).

### One Lamp



### Two Lamps



\* 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).

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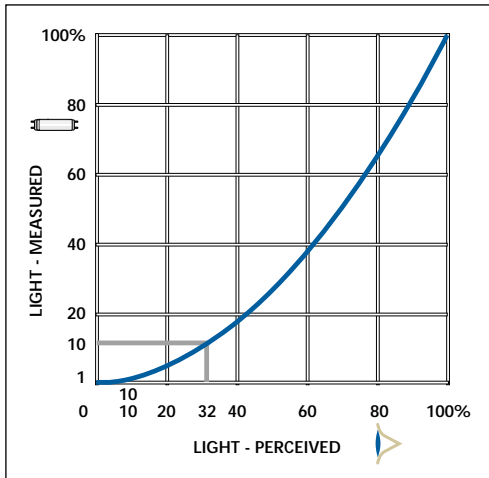


**ATTENTION SPECIFIERS:**

**APPLICATION NOTES**

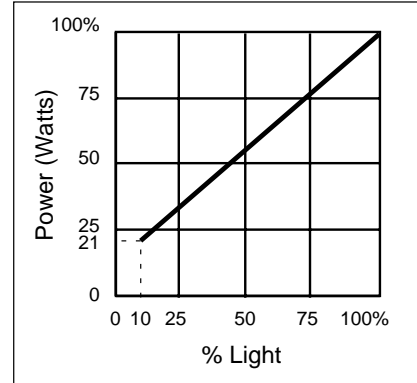
**Perceived vs. Actual Light**

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, T5, T8, or T12) on a given circuit. Mixing lamp lengths (48", 36", 24" etc.) within a single lamp type is permissible and will not diminish dimming performance.

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 specified number of ballast maximums.

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