Lutron offers a variety of lighting control solutions for dimming fluorescents. The information below identifies system requirements based on the selected Lutron Dimming Ballast. Visit www.lutron.com/ballasts for our complete dimming ballast offering.

**FLUORESCENT LIGHTING CONTROLS**

### GRAFIK Eye® 3000 Series

- **120V**
  - Use up to two Fluorescent Dimming Ballast Interfaces, P/N GRX-FDBI-16A-120 per Fluorescent Dimming Zone, pg. 30
  - or -
  - Use up to five Hi-Power 2•4•6™ Dimming Modules per Fluorescent Dimming Zone, pg. 31

### GRAFIK Eye® 4000 and Centralized Lighting Control System

- **120V or 277V GP Dimming Panels**
  - Panel equipped for dimming this type directly, pg. 152

- **120V LP Dimming Panels**
  - Use up to two Fluorescent Dimming Ballast Interfaces, P/N GRX-FDBI-16A-120 per Fluorescent Dimming Zone, pg. 158
  - or -
  - Use up to five Hi-Power 2•4•6™ Dimming Modules per Fluorescent Dimming Zone, pg. 31

### Digital microWATT™ Lighting Automation System

- **120V or 277V**
  - Lighting Zone Controllers and Lighting Control Panels equipped for dimming this type directly, pg. 202

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**3-Wire Control**

- **Hi-Lume® Ballasts**
  - 1% Architectural Dimming

- **Compact SE™ Ballasts**
  - 5% High Performance Dimming

- **Eco-10™ Ballasts**
  - 10% Lighting Management Dimming
**Tu-Wire® Ballasts**  
5% High Performance Dimming

**TVE™ Ballasts**  
10% Lighting Management Dimming

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**2-Wire Control**

- **Hot**  
- **Control**  
- **Dimmed Hot**

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**0-10V Control**

- **Hot**  
- **Control**  
- **Neutral**  
- **Dimming Ballast**

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**120V ONLY**

- **GRAFIK Eye®** Control Unit equipped for dimming this type directly, pg. 26

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**120V or 277V**

- Use up to five Zero-to-Ten Volt Interfaces, P/N GRX-TVI per Fluorescent Dimming Zone, pg. 173

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**120V ONLY**

- GP and LP Dimming Panels equipped for dimming this type directly, pg. 152

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**120V or 277V**

- Use Ten Volt Modules, P/N TVM in Power Panels, pg. 173

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**120V ONLY**

- Use **Tu-Wire** Ballast Interface, P/N FDI-FTU-16A-120 per Fluorescent Dimming Circuit, pg. 207
For more information about Lutron Fluorescent Dimming Ballasts, please refer to the Lutron Fluorescent Dimming Systems Selection Guide, P/N 366-022. For more information about dimming ballast installation and wiring, please refer to the Lutron Fluorescent Dimming System Technical Guide, P/N 366-606.

**1% Architectural Dimming**

**Hi-Lume.**

Experience the benefits of true full-range 100% to 1% fluorescent dimming. Designed to meet the most demanding lighting requirements, Hi-lume ballasts enable you to provide the ideal visual environment for any application.

The Hi-lume family is extensive, featuring the world’s only 100% to 1% dimming ballasts for T4 compact fluorescent lamps. Integrating Hi-lume 1% technology into your designs affords you full control over the lighting in any space.

For maximum flexibility, Lutron offers a full line of Hi-lume ballasts and compatible 3-wire controls. Lutron ballasts are tested for performance with Philips®, Sylvania®, and GE® lamps. 1% Ballasts for T4 compact lamps meet residential FCC requirements.

**Compact SE.**

For designs requiring the energy savings and aesthetic appeal of dimmed compact fluorescent lamps, Compact SE dimming ballasts are your solution. The Compact SE product family includes ballasts for nearly every type of compact fluorescent lamp.

Compact SE dimming ballasts deliver high performance 100% to 5% dimming, making them ideal for use in a variety of applications. In addition, Compact SE ballasts are compatible with the full line of 3-wire controls by Lutron.

**Eco-10.**

To maximize the benefits of a lighting management system, use Eco-10 dimming ballasts by Lutron. Eco-10 offers 100% to 10% dimming, and is ideal for use in any space where saving energy is the primary goal, and critical performance is secondary.

Eco-10 ballasts are available for a large range of lamps, making them an ideal choice for applications with many different fixture types. In addition, Eco-10 ballasts are fully compatible with Lutron’s complete line of 3-wire fluorescent controls.
For a complete list of the latest ballasts from Lutron

### Tu-Wire®

Retrofit and small-space applications can benefit from the ease of installation offered by Lutron Tu-Wire dimming ballasts. Tu-Wire ballasts offer high performance 100% to 5% dimming for linear and compact fluorescent lamps.

Tu-Wire ballasts require only two wires (hot and neutral) for power and control. Lutron offers a wide range of compatible 2-wire controls, making Tu-Wire a perfect choice for many applications. Additionally, one-lamp T4 models have been designed to meet FCC Part 18 consumer requirements.

#### Specifications

- **Power Factor:** >.95
- **Ballast Factor:** >.85
- **Sound Rating:** Inaudible in 27dB ambient
- **Lamp Flicker:** None visible
- **In-Rush Current:** Max. of 7 Amps for 120V, Max. of 3 Amps for 277V
- **Fusing:** Internal
- **Minimum Starting Temp:** 10°C
- **Maximum Case Temp:** 75°C

#### 5% High Performance Dimming

- **Hi-lume® T8:** <10% >25KHz 3-Wire
- **Hi-lume T5-HO:** <10% >42KHz 3-Wire
- **Hi-lume T4:** <10% >25KHz 3-Wire
- **Compact SE-T4:** <10% >25KHz 3-Wire
- **Compact SE T5-TT:** <20% >42KHz 2-Wire
- **Eco-10-T8:** <20% >25KHz 3-Wire
- **Eco-10 T5:** <20% >25KHz 3-Wire
- **Eco-10 T5-TT:** <20% >25KHz 3-Wire
- **Tu-Wire®:** <20% >42KHz 2-Wire

#### 10% Lighting Management Dimming

- **Hi-lume® T8:** <10% >25KHz 3-Wire
- **Hi-lume T5-HO:** <10% >42KHz 3-Wire
- **Hi-lume T4:** <10% >25KHz 3-Wire
- **Compact SE-T4:** <10% >25KHz 3-Wire
- **Compact SE T5-TT:** <20% >42KHz 2-Wire
- **Eco-10-T8:** <20% >25KHz 3-Wire
- **Eco-10 T5:** <20% >25KHz 3-Wire
- **Eco-10 T5-TT:** <20% >25KHz 3-Wire
- **Tu-Wire®:** <20% >42KHz 2-Wire
- **TVE™:** <10% >25KHz 0-10V

- **Frequency of Operation:**
  - 1%: >25KHz
  - 5%: >42KHz
  - 10%: >25KHz
- **Control Method:**
  - 3-Wire
  - 2-Wire

#### Specifications

- **Power Factor:** >.95
- **Ballast Factor:** >.85
- **Frequency of Operation:**
  - 1%: >25KHz
  - 5%: >42KHz
  - 10%: >25KHz
- **Control Method:**
  - 3-Wire
  - 2-Wire

#### Performance

- **Total Harmonic Distortion:** <10%
- **Total Harmonic Distortion:** <10%
- **Total Harmonic Distortion:** <10%
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- **Total Harmonic Distortion:** <10%
- **Total Harmonic Distortion:** <10%
- **Total Harmonic Distortion:** <10%
- **Total Harmonic Distortion:** <10%

#### Controls

- **Dimmable:** Tu-Wire® offers dimmable controls for use with 0-10V or 3-Wire systems.
- **Control Method:** 3-Wire or 2-Wire.

#### Features

- **Color-keyed push-in connectors**
- **Slim-profile design – just 1” high**
- **High performance dimming**
- **Compact and durable**
- **FCC Part 18 compliant**

#### Applications

- **Applications:** Retrofit and small space applications
- **Features:** 2-Wire controls, high performance dimming, slim-profile design
- **Benefits:** Easy installation, compatibility with many controls, FCC Part 18 compliance

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For a complete list of the latest ballasts from Lutron

[www.lutron.com/ballasts](http://www.lutron.com/ballasts)