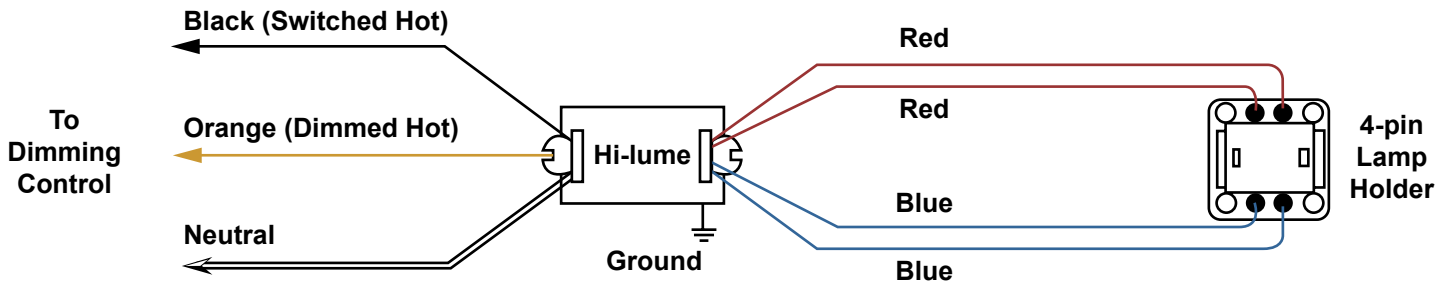


# Dimming Guide\*

**Lutron SE – 3 Wire Phase Control** – This ballast can dim the lamp down to 5% of its normal output. It is called 3 Wire, because there are 3 wires that must be wired to by the contractor. The Black and White (Neutral) wires are the supply voltage (Typically 120 or 277V). The black wire is called “Switched Hot” which is as it is called...connected to the switch that turns the ballast/fixture on and off. The third wire (orange) is the wire that controls the dimming level. This wire can be wired directly to an individual dimmer, or a dimming system to control several units.

## Wiring Diagrams

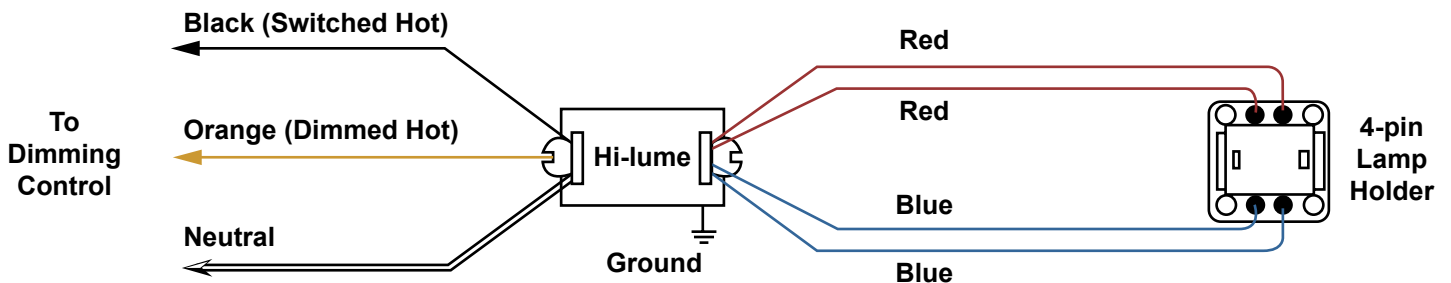
### One compact fluorescent lamp



**Lutron Hi-Lume – 3 Wire Phase Control** – This is the same as the Lutron SE, but the lamp can be dimmed down to 1%.

## Wiring Diagrams

### One compact fluorescent lamp



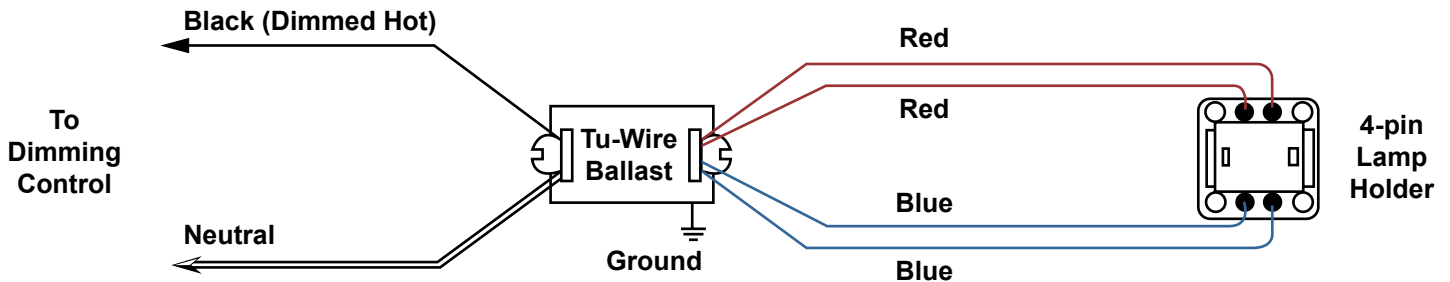
\*This guide was created to explain dimming wiring methods for specific ballasts and manufacturers. Consult factory for applications and availability on specific catalog pages.

## Dimming Guide\* (cont.)

**Lutron Tu-Wire** – Tu-Wire is a trade name from Lutron, but is the same as Advance’s Mark X product and is considered “Powerline” dimming. This ballast can dim the lamp down to 5% of its normal output. The powerline ballast only has two supply wire (Black and White). The ballast is offered only as a 120V version from Lutron. The amount of dimming is controlled by varying the input voltage. Ex: On a 120V product, dimming is done by controlling the line voltage between 0-120V.

### Wiring Diagrams

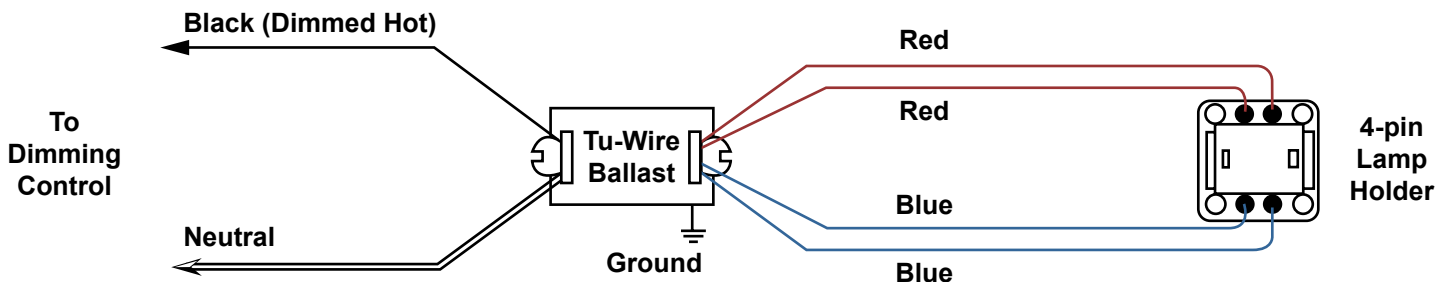
#### One compact fluorescent lamp



**Advance Mark X** – This is what they call “Powerline” dimming. This ballast can dim the lamp down to 5% of its normal output. The powerline ballast only has two supply wire (Black and White). The ballast is offered as a 120V or 277V version. The amount of dimming is controlled by varying the input voltage. Ex: On a 120V product, dimming is done by controlling the line voltage between 0-120V.

### Wiring Diagrams

#### One compact fluorescent lamp

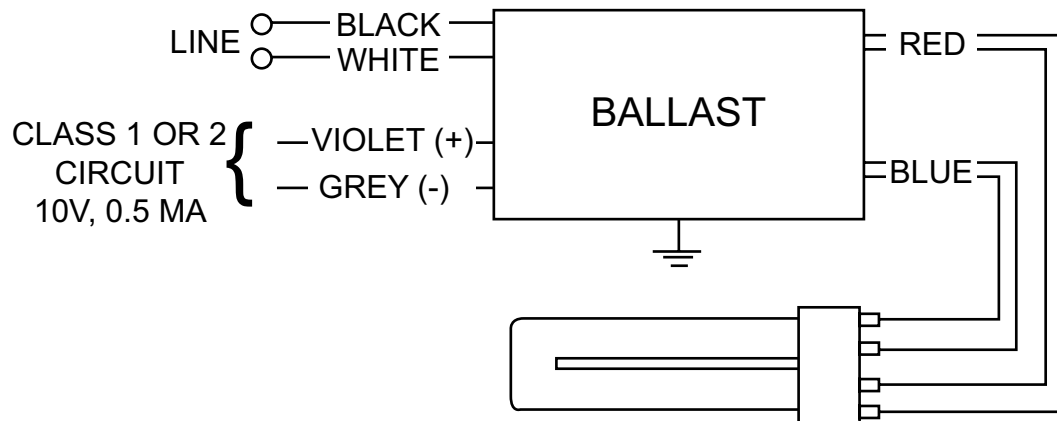


\*This guide was created to explain dimming wiring methods for specific ballasts and manufacturers. Consult factory for applications and availability on specific catalog pages.

## Dimming Guide\* (cont.)

**Advance Mark 7** – 0-10Volt Dimming – This is a 0-10Volt DC controlled system. This ballast can dim the lamp down to 5%. The 0-10V ballasts have 4 input wires. Two of the wires (Black & White) are the supply voltage (120 thru 277), and the other two wires (Violet & Grey) are used to be connected to a low voltage DC controller or wall switch that varies the 0-10V supplied by the ballast. Typically, these are connected to a dimming control system.

### Wiring Diagrams



**\*This guide was created to explain dimming wiring methods for specific ballasts and manufacturers. Consult factory for applications and availability on specific catalog pages.**