

# Metalux LED

## 0-10V Dimming Guide

### What is 0-10V dimming?

- A dimmer provides 0 to 10V (0-10V) control voltage to the control circuitry of a lighting fixture's power supply. The input from the dimmer adjusts the light level of the fixture. The lower the voltage input, the more the fixture will dim.
- A 0-10V dimmable fixture can be paired with a 0-10V dimmer using purple and grey low voltage wires. The purple and grey wires are separate from AC or DC power wiring.
- Only a 0-10V dimmer can be used to dim a 0-10V dimmable lighting fixture.

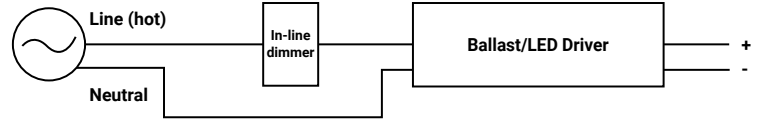
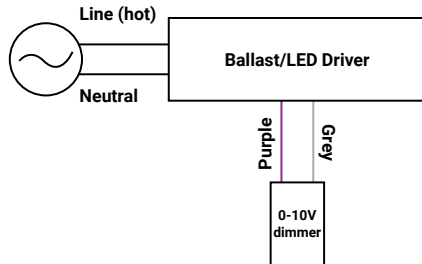
**NOTE: An in-line dimmer will prevent the fixture from operating properly.  
Do not wire an in-line dimmer to a 0-10V dimmable fixture.**

0-10V
Dimming using separate control circuit inside of ballast/LED driver
Two additional wires needed (purple and grey wires)
Class 2 low voltage

VS

In-line (phase cut) dimming
Dimming achieved via AC hot line
No additional wiring required
Class 1 AC power

### Wiring Diagram Example



Note, these diagrams are only examples. You should refer to the instructions included with your dimmer switch.

### Recommended Dimmer Switches\*

Dimmer Make	Dimmer Series	Dimmer Model #	0-10V rated current (mA)
Eaton	Slide Dimmer	SF10P	200
Eaton	Decorator Dimmer	DF10P	200
Levitron	Illumatech	IP710-DL	28
Lutron	NTFTV	NOVA T	30
Lutron	DIVA	DVTV	30
Eaton	iLumin	SC277-06	100
Eaton	Greengate	CK4A	100

\* Most 0-10V dimmers include an integrated switch, button or rocker to completely turn off power to the fixture.