

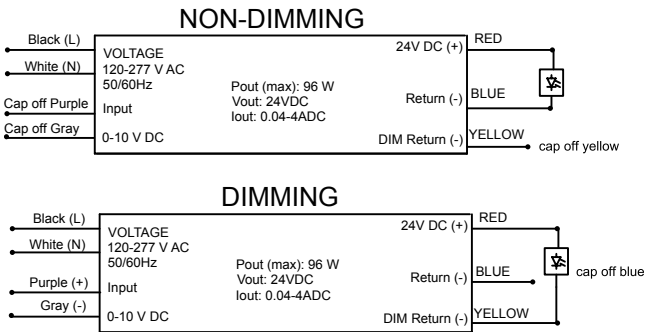
# 20 Linear - Constant Voltage driver information

Please refer to driver manufacturer's website for current data sheets and wiring guidelines.

| LINEAR FEET PER DRIVER - CONSTANT VOLTAGE |         |                |         |          |            |
|---|---------|----------------|---------|----------|------------|
| Driver                                    | Wattage | Power [W / Ft] |         |          |            |
|   |         | L [3.0]        | M [6.0] | H [10.0] | RGBW [8.0] |
| S*  | 96W     | 24'-0"         | 12'-0"  | 6'-0"    | -          |
| D010*                                     | 96W     | 24'-0"         | 12'-0"  | 6'-0"    | -          |
| L3DAE                                     | 40W     | 12'-0"         | 6'-0"   | 4'-0"    | -          |
| L3D0E                                     | 96W     | 24'-0"         | 12'-0"  | 6'-0"    | -          |
| EL96*                                     | 96W     | 24'-0"         | 12'-0"  | 6'-0"    | -          |
| DMX*                                      | 96W     | 24'-0"         | 12'-0"  | 6'-0"    | 8'-0"      |

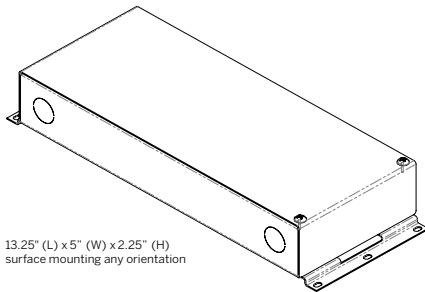
\* Linear Feet per Driver assumes 80% reduction from full load.

## S / D010 - EldoLED, Non-Dim or 10% 0-10V dimming, 120-277V [spec sheet](#)



**Warning:** if not connected to a 0-10V dimmer, driver MUST be wired as Non-dim. Not doing so can cause the driver and the fixtures to fail prematurely.

### Dry Location Enclosure



Compatible/Recommended dimmers and interfaces\*:

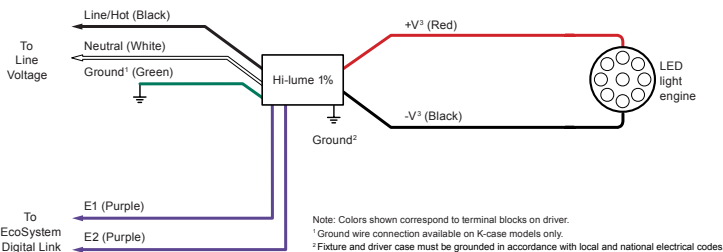
- Lutron Diva DVSTV (Wallbox dimmer)
- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
- Lutron PowPak 0-10V RMJ-5T-DV-B (Energi Tripak)
- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
- Lutron QSN-4T16-S (Energi Savr Node 0-10V)
- Lutron TVM2 module (HomeWorks and commercial dimming panels)

\*Consult factory for any dimmer not listed

| Maximum wiring distance* |        |                 |                 |                 |
|--------------------------|--------|-----------------|-----------------|-----------------|
|                          |        | Load per driver |                 |                 |
|                          |        | ≤48W            | ≤72W            | ≤96W            |
| Wire gauge               | #18AWG | 37 ft (11.3 m)  | 25 ft (7.6 m)   | 18 ft (5.5 m)   |
|                          | #16AWG | 59 ft (18 m)    | 39 ft (11.9 m)  | 29 ft (8.8 m)   |
|                          | #14AWG | 95 ft (29 m)    | 63 ft (19.2 m)  | 47 ft (14.3 m)  |
|                          | #12AWG | 151 ft (46 m)   | 101 ft (30.8 m) | 75 ft (22.9 m)  |
|                          | #10AWG | 241 ft (73.5 m) | 160 ft (48.8 m) | 120 ft (36.6 m) |

\* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

## L3DAE = Lutron Hi-lume 1% EcoSystem, 120-277V [spec sheet](#)



Note: Colors shown correspond to terminal blocks on driver.  
<sup>1</sup> Ground wire connection available on K-case models only.  
<sup>2</sup> Fixture and driver case must be grounded in accordance with local and national electrical codes.

### Dry Location Enclosure

Case type KL

K-case mounted on a 4" (102 mm) W x 1.5" (38 mm) H x 4" (102 mm) L junction box to provide wiring compartment



| EcoSystem Controls                   |                         |                                   |         |
|--------------------------------------|-------------------------|-----------------------------------|---------|
| Product                              | Model Number            | Drivers per Control               | Dimming |
| PowPak dimming module with EcoSystem | RMJ-ECO32-DV-B 3        | 32 per EcoSystem link             | 100%~1% |
|                                      | FCJ-ECO, FCJS-ECO       | 3 per EcoSystem link <sup>1</sup> | 100%~1% |
| Energi Savr Node with EcoSystem      | 2QSN-1ECO-S, QSN-2ECO-S | 64 per EcoSystem link             | 100%~1% |
| GRAFIK Eye QS with EcoSystem         | QSGRJ_E, QSGR_E         | 64 per EcoSystem link             | 100%~1% |
| Quantum                              | Various                 | 64 per EcoSystem link             | 100%~1% |

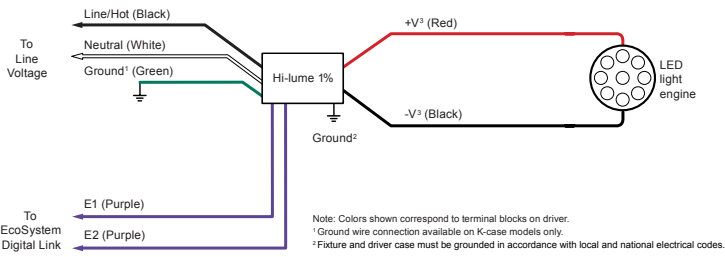
1 Up to 3 drivers controlled as a single zone (broadcast EcoSystem).

| Maximum wiring distance* |                |                |                 |                |
|--------------------------|----------------|----------------|-----------------|----------------|
|                          |                | 10 V to 20 V   | 20.5 V to 40 V  | 40.5 V to 60 V |
| Wire gauge               | 24 AWG         | 2.5 ft (0.8 m) | 4 ft (1.2 m)    | 8 ft (2.4 m)   |
|                          | 22 AWG         | 4 ft (1.2 m)   | 6 ft (1.8 m)    | 12 ft (3.7 m)  |
|                          | 20 AWG         | 6 ft (1.8 m)   | 10 ft (3 m)     | 20 ft (6.1 m)  |
|                          | 18 AWG         | 10 ft (3 m)    | 15 ft (4.6 m)   | 30 ft (9.1 m)  |
|                          | 16 AWG         | 15 ft (4.6 m)  | 25 ft (7.6 m)   | 50 ft (15.2 m) |
|                          | 14 AWG         | 25 ft (7.6 m)  | 40 ft (12.2m)   | 75 ft (22.9 m) |
| 12 AWG                   | 40 ft (12.2 m) | 60 ft (18.3 m) | 100 ft (30.5 m) |                |

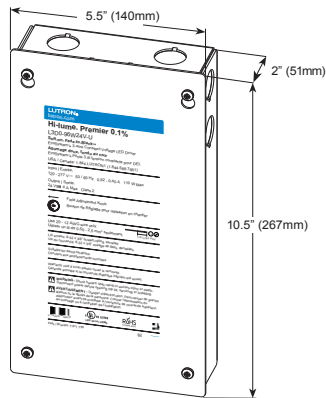
\*Terminal blocks on the drivers accept only solid 18 or 16 AWG (0.75 or 1.5 mm<sup>2</sup>) wire. To use wire gauges larger or smaller than this terminal blocks' rated gauge of 18 or 16 AWG (0.75 or 1.5 mm<sup>2</sup>) refer to the Terminal Wiring Gauges diagram at the end of this document. Connect up to 3 ft (0.9 m) of 18 or 16 AWG (0.75 or 1.5 mm<sup>2</sup>) wire to the LED driver terminal blocks, then connect 14 to 12 AWG (2.5 to 4.0 mm<sup>2</sup>) or 24 AWG to 20 AWG (0.20 mm<sup>2</sup> to 0.50 mm<sup>2</sup>) up to the length allowed in the above table.\*

# 20 Linear - Constant Voltage driver information

## L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V [spec sheet](#)



### Dry Location Enclosure



Drivers are programmed to Linear dimming curve by default. Compatible/Recommended dimmers and interfaces\*:

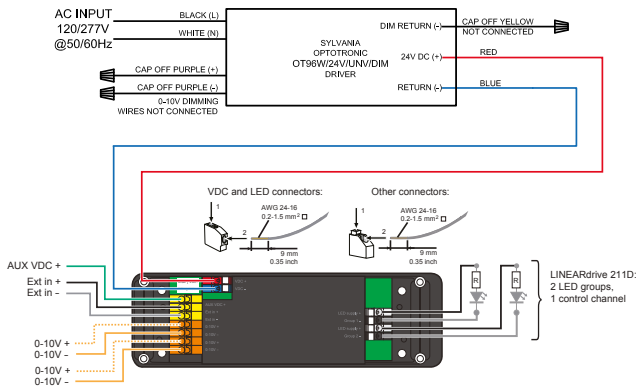
- PowPak Dimming Module with EcoSystem
- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
- Lutron PowPak 0-10V RMJ-5T-DV-B (Energi Tripak)
- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
- Lutron QSN-4T16-S (Energi Savr Node 0-10V)
- Lutron TVM2 module (HomeWorks and commercial dimming panels)

\*Consult factory for any dimmer not listed

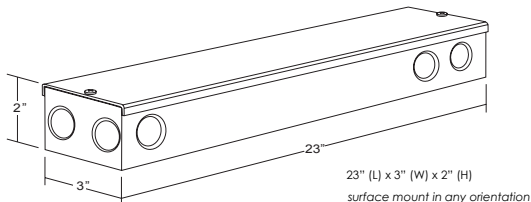
| Wire gauge*                                 | Maximum wiring distance* |
|---|--------------------------|
| 24 AWG (0.20 mm <sup>2</sup> ) <sup>3</sup> | 6 ft (1.8 m)             |
| 22 AWG (0.34 mm <sup>2</sup> ) <sup>3</sup> | 10 ft (3.0 m)            |
| 20 AWG (0.50 mm <sup>2</sup> )              | 15 ft (4.5 m)            |
| 18 AWG (0.75 mm <sup>2</sup> )              | 25 ft (7.62 m)           |
| 16 AWG (1.0 mm <sup>2</sup> )               | 40 ft (12.2 m)           |
| 14 AWG (1.5 mm <sup>2</sup> )               | 60 ft (18.3 m)           |
| 12 AWG (2.5 mm <sup>2</sup> )               | 100 ft (30.5 m)          |
| 10 AWG (4.0 mm <sup>2</sup> ) <sup>3</sup>  | 150 ft (45.7 m)          |

1 To use wire gauges larger or smaller than terminal blocks' rated gauge of 20 AWG to 12 AWG (0.50 mm<sup>2</sup> to 2.50 mm<sup>2</sup>), connect 12 in (30 cm) or less of rated wire from terminal and connect with larger or smaller wire.

## EL96 = Osram / EldoLED, 24V, 1% 0-10V Dimming Driver [spec sheet](#) | [DMX interface](#)



### Dry Location Enclosure



Compatible/Recommended dimmers and interfaces\*:

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- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
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- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
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- Lutron TVM2 module (HomeWorks and commercial dimming panels)

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|            |                 | Maximum wiring distance* |                 |                |
|------------|-----------------|--------------------------|-----------------|----------------|
|            |                 | Load per driver          |                 |                |
|            |                 | ≤48W                     | ≤72W            | ≤96W           |
| Wire gauge | #18AWG          | 37 ft (11.3 m)           | 25 ft (7.6 m)   | 18 ft (5.5 m)  |
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\* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

