

Installation Instructions

Luminaires must be installed by a qualified electrician. Check with local and national codes for proper installation.



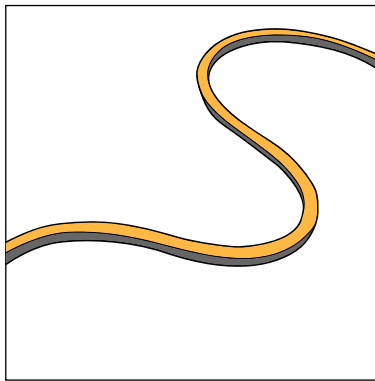
To prevent electrical shock disconnect electrical supply before installation or servicing.
Never connect a Fixture to a Live Driver!!!

Contractor is responsible for adequately reinforcing walls and/or ceilings to support fixture weight. Provide blocking when necessary.

Step 1 - Open the Box

Unpack luminaire unit(s). The Flex family of luminaires require special handling. They are supplied in lengths specified at the time of order, and are delivered on a reel enclosed in a large anti-static bag. Remote Drivers and Boxes may be ordered from Inter-lux separately.

24VDC Constant Voltage



15 x 15 Horizontal Black

Static White
Static White High Output
Static White Free Cut

Minimum Horizontal Bend

$\varnothing \geq 9.8" / 250\text{mm}$

Tunable White
Warm Dim

Minimum Horizontal Bend

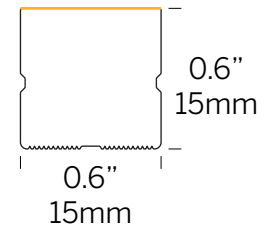
$\varnothing \geq 11.8" / 300\text{mm}$

Working Temperature Range

-40° to 130°



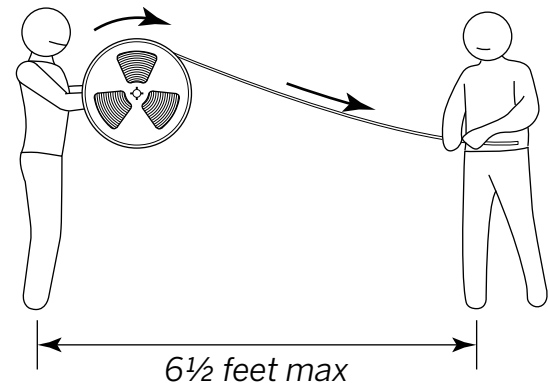
Do not attempt to bend this Luminaire in the vertical plane!



NOTE: Yellow (or light gray in B/W) indicates lit surface.

Step 2 - Handling the Luminaire

- a** The delicate nature of the Flex Horizontal luminaire necessitates that unpacking, handling, and installing this fixture be done by **at least** two people.



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Flex 15 x 15

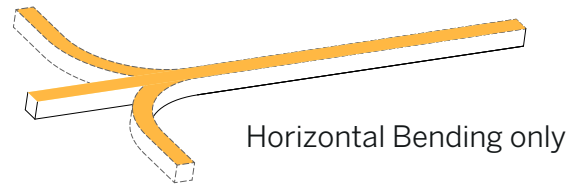
Horizontal Black

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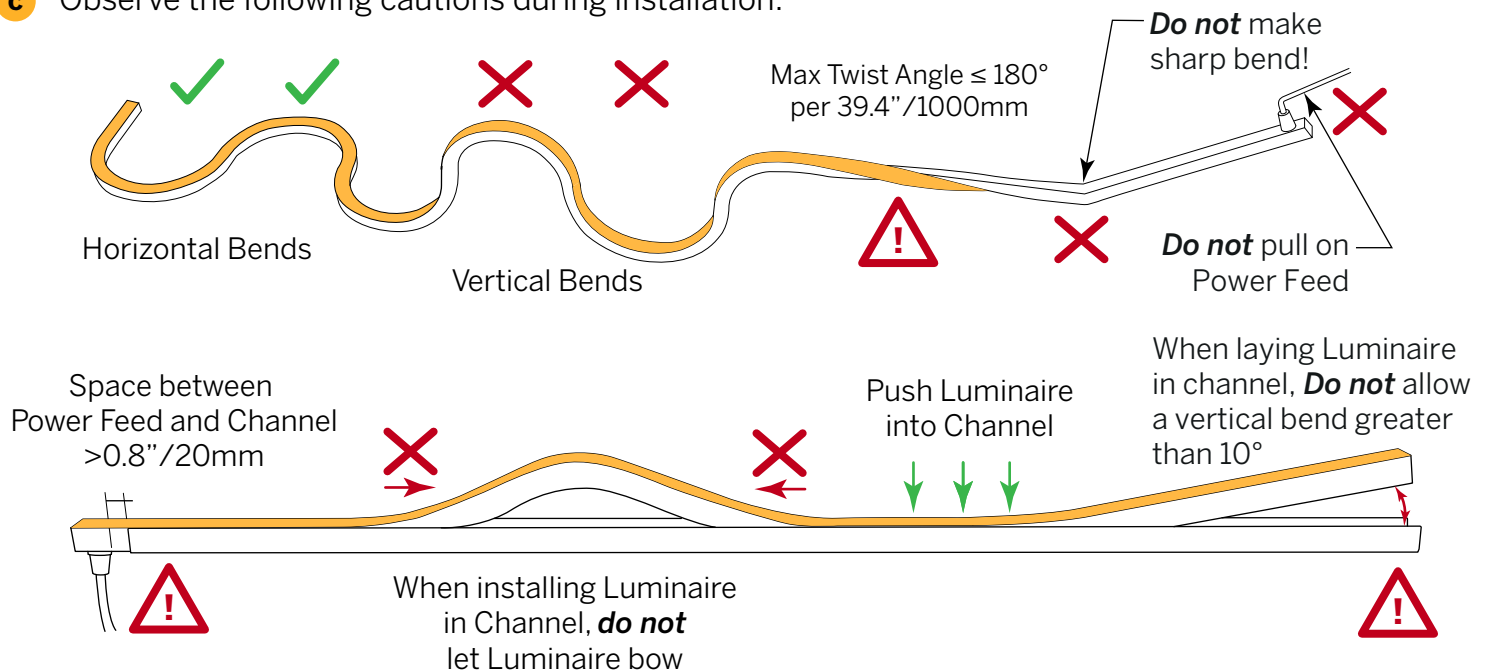
2/12

Step 2 - *Handling the Luminaire* (continued)

- b** The Flex 15 x 15 Horizontal Black Luminaire may be represented by the illustration at right. All Horizontal Luminaires bend in the **horizontal plane only** - Left or Right.

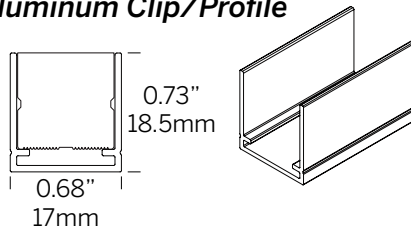


- c** Observe the following cautions during installation:



Step 3 - *Accessories*

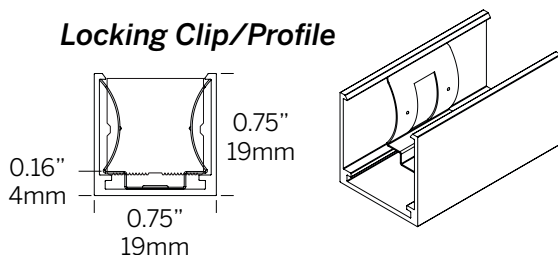
Aluminum Clip/Profile



Available in:

1.2"/30mm Silver^{1,2}
1.2"/30mm Black^{1,2}
39.4"/1000mm Silver^{1,3}
39.4"/1000mm Black^{1,3}

Locking Clip/Profile



Available in:

1.2"/30mm Silver^{1,2,4}
1.2"/30mm Black^{1,2,4}
39.4"/1000mm Silver^{1,3,4}
39.4"/1000mm Black^{1,3,4}
78.7"/2000mm Silver^{1,3,4}
78.7"/2000mm Black^{1,3,4}
98.4"/2500mm Silver^{1,3,4}
98.4"/2500mm Black^{1,3,4}

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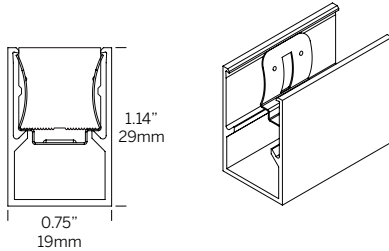
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Step 3 - **Accessories** (continued)

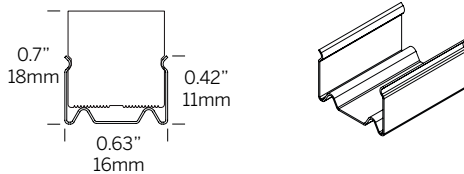
Deep Self Locking Clip/Profile



Available in:

1.4"/35mm Silver^{1, 2, 4, 5}
1.4"/35mm Black^{1, 2, 4, 5}
39.4"/1000mm Silver^{1, 3, 4, 5}
39.4"/1000mm Black^{1, 3, 4, 5}

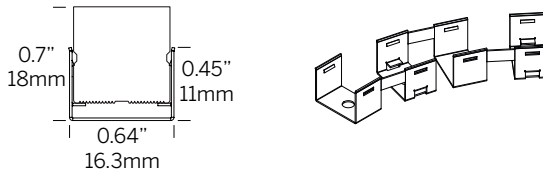
Stainless Mounting Clip/Profile



Available in:

0.8"/20mm Silver^{1, 2}
0.8"/20mm Black^{1, 2}
39.4"/1000mm Silver^{1, 3}
39.4"/1000mm Black^{1, 3}

Stainless Bendable Profile



Available in:

39.4"/1000mm Silver^{1, 6}
39.4"/1000mm Black^{1, 6}

NOTES:

- 1 Mounting screws and anchors supplied by others.
- 2 All clip-length profiles and full-length profiles are pre-drilled for mounting.
- 3 Full-length profiles are pre-drilled with (3) holes per 39.37"/1000mm. Additional holes may be drilled, as needed.
- 4 Internal spring(s) inside Locking and Deep Self Locking Profiles is movable to allow access to Mounting Hole(s).
- 5 Open space under spring of Deep Self Locking Profile is intended for wire management.
- 6 Flexible Profiles have pre-drilled holes in each segment for easy positioning.

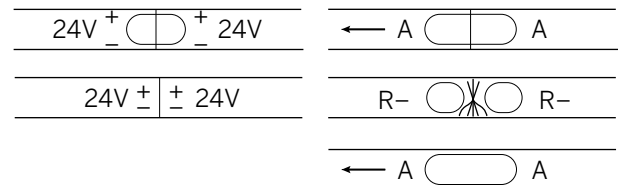
Step 4 - *How to Field Cut the Flex Luminaire*

(Skip to **Step 5** if not applicable)

All versions of the Flex 15 x 15 Horizontal Black Luminaire (except the *Free Cut*) have a narrow transparent window on the bottom or side with Cut Lines that look like one of those shown at right.

The ovals represent copper pads. It is imperative to cut on these lines to maintain a fully lit luminaire. If Flex is not cut on these lines, there is a risk that a portion of the luminaire near the cut will not power on.

The *Free Cut* version may be cut anywhere without concern that some LED's will go dark.



Cut Intervals

Static White

LED Type S05 - 2"/50mm

LED Type S12 - 2"/50mm

Static White High Output

LED Type S10 - 2.5"/63mm

Static White Free Cut

LED Type SF05 - n/a

LED Type SF10 - n/a

Tunable White

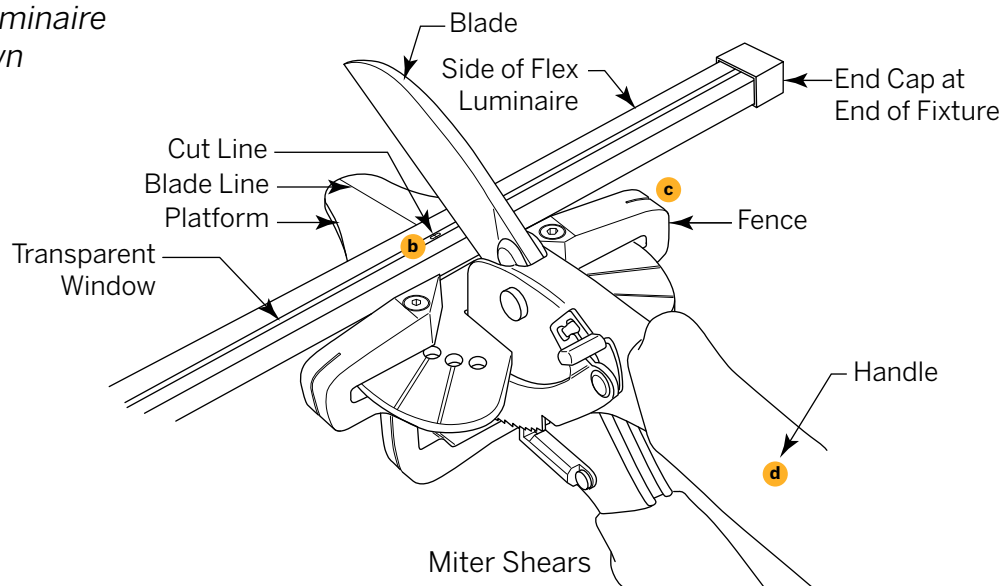
LED Type CT08 - 2"/50mm

Warm Dim

LED Type 12R - 2"/50mm

- a** When cutting the Luminaire in the field, it is important to cut as perpendicular as possible. One way to do this is to use a pair of Miter Shears that has a fence 90° to the cut.

Generic Luminaire Shown



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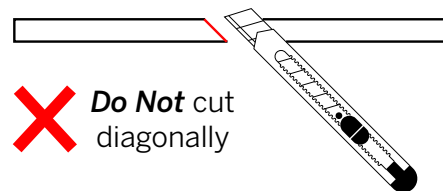
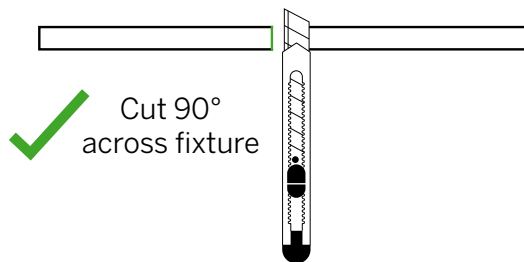


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Step 4 - **How to Field Cut the Flex Luminaire** (continued)

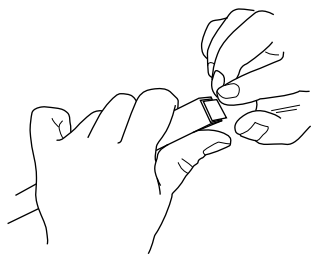
- b** Place Luminaire on Tool Platform with Transparent Window facing up as shown above. Line up Cut Line with Blade Line.
- c** Make sure Fence is at 0°, perpendicular to Blade.
- d** Squeeze Handles firmly to cut.

Whether one uses Miter Shears or not, it is important that Flex be cut at 90° across the fixture and not at an angle.

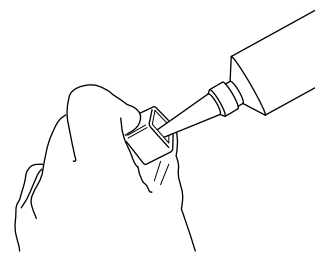


Apply End Cap

With this new cut, an End Cap needs to be applied. (1) End Cap is supplied with each length of Flex. For example, if 300 feet was purchased in a single length, one End Cap is supplied. But if three 100 foot lengths were purchased, three End Caps would be supplied. Additional End Caps are available, if needed.



- a** Place Silicone Square at freshly cut end. Orient Square such that it lays entirely within confines of end shape.



- b** Fill interior bottom and sides of End Cap with supplied silicone* sealant. Set aside.

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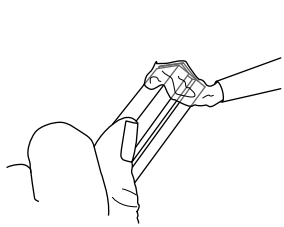
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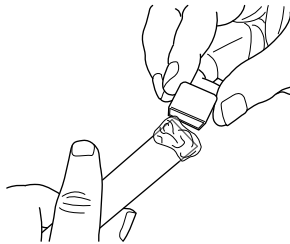


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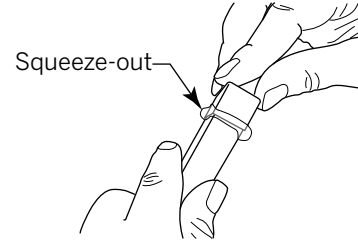
Step 4 - **How to Field Cut the Flex Luminaire** (continued)



- c** Squeeze silicone sealant all around the last ½" of the newly cut end.



- d** Mount End Cap.



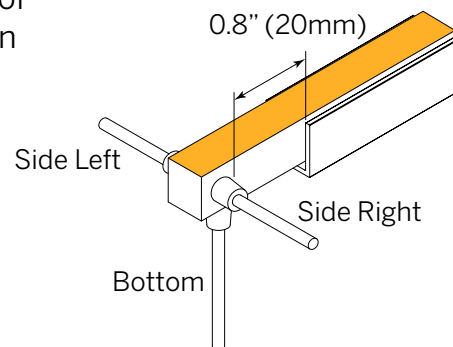
- e** Push End Cap onto Luminaire End. Wipe squeeze-out off and set aside to dry for 30-60 minutes.

**Supplied silicone sealant is proprietary and specially formulated.*

Step 5 - **Install Luminaire**

The Flex 15 x 15 Horizontal Black sits in the Aluminum Profile via a friction fit. The Luminaire is retained in the Locking Profile and the Deep Locking Profile via an integral spring. The Luminaire is held in the Stainless Mounting Clip by small nubs that catch a groove on either side of the Luminaire. The Luminaire is secured in the Stainless Flexible Profile by small linear barbs that catch the sides of the Fixture.

When using Profiles, the Feed Cable end must sit *outside* of Profile. The distance between the Power Feed - whether on the Side Left, Side Right, Bottom or End - and the beginning of the the Profile should be at least 0.8" (20mm). See illustrations at right and next page.



Generic Luminaire Shown

- a** Drill additional mounting holes in Aluminum Profiles, if needed.
- b** Fasten the Aluminum Profile(s) or Stainless Mounting Clips/Profile(s) to surface with appropriate screws (by others).
- c** Space Clips no more than 12 inches (300mm) apart and within 2 inches (50mm) of each bend.

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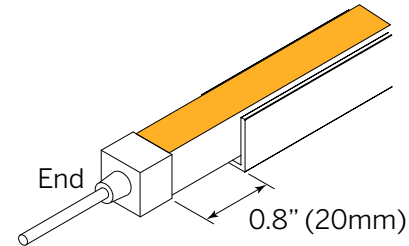
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Step 4 - *Install Luminaire* (continued)

- d** Press Luminaire into Clips or Profiles firmly.
Do not allow a vertical bend greater than 10°.
- e** Wire Luminaire according to Driver specified. See Illustrations in **Step 6**, pages 9-14.
- f** Energize!



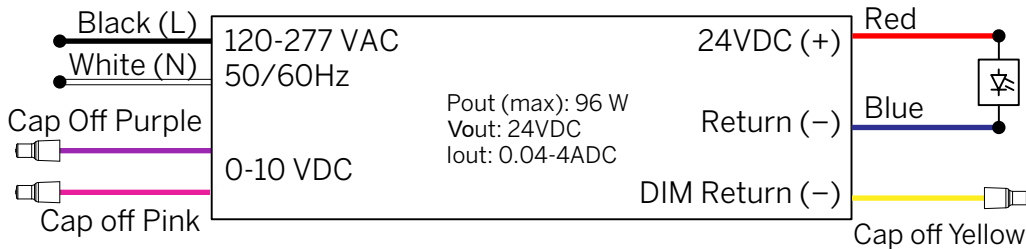
Generic Luminaire Shown

Step 6 - *Wire Luminaire*

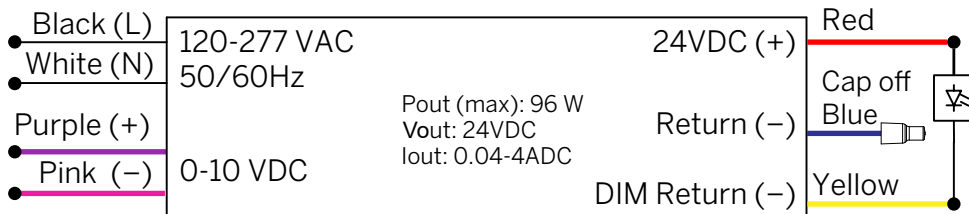
The following wiring diagrams for Constant Voltage remote drivers are included here for reference. For additional details, such as Maximum Wiring Distance, compatible dimmers, and driver box dimensions, please refer to the Driver Information Guide on our website.

D010 = eldoLED, Non-Dim or 10% 0-10V dimming (120-277V)

Non-Dimming



Dimming



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.

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120-277VAC
50/60 Hz

Black (L)

White (N)

Cap Off Purple (+)

Cap Off Pink (-)

Optotronics
OT96W/24V/UNV/DIM

Dim Return (-)

24V DC (+)

Return (-)

Cap Off Yellow

Red

Blue

For:
Static White
Static White High Output
Static White Free Cut

AUX VDC (+)

Ext In (+)

Ext In (-)

0-10V (+)

0-10V (-)

0-10V (+)

0-10V (-)

VDC +

VDC -

AUX VDC +

Ext in +

Ext in -

0-10V +

0-10V -

0-10V +

0-10V -

LED supply +

Group 1 -

LED supply -

Group 2 -

LINEARdrive 211D
2 LED Groups
1 Control Channel

120-277VAC 50/60 Hz

Compatible Dimming Control or On/Off Switch

Black (L)

White (N)

Some dimmers may require an additional neutral wire connection

OMNIDRIVE Dimmable Driver

L Input

N Input

GND

Class 2 Low Voltage Driver Installed in Junction Box

Output V+

Output V-

LED Fixture

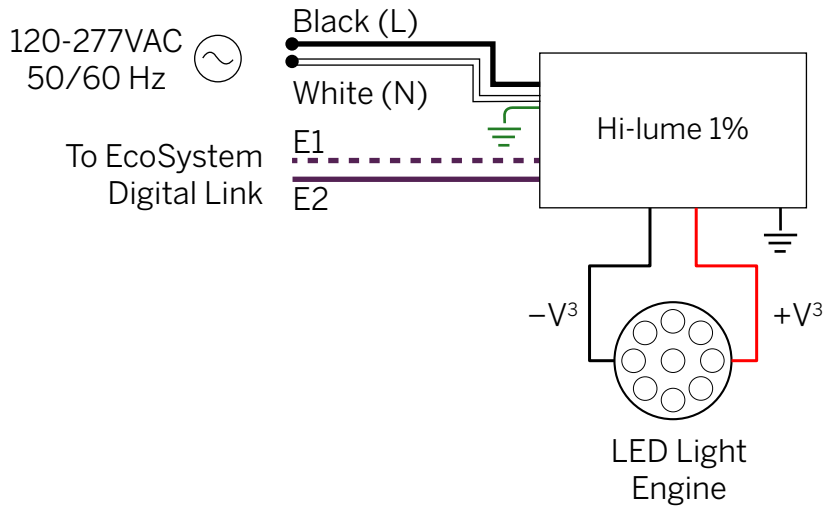
Install appropriate wire gauge/type

For:
 Static White
 Static White High Output
 Static White Free Cut

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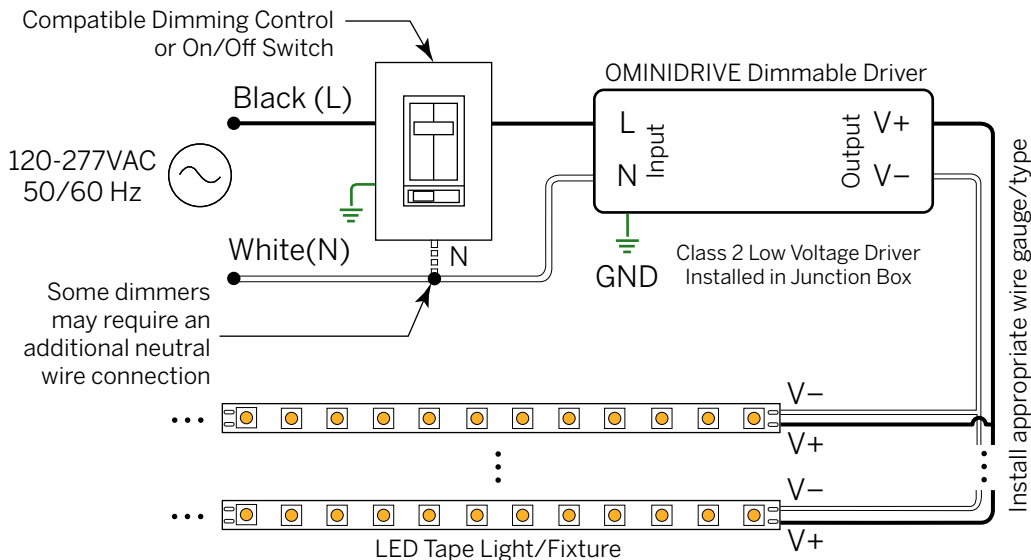
Step 5 - **Wire Luminaire** (continued)

L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem (120-277V)



For:
 Static White
 Static White High Output
 Static White Free Cut

UNV96-WL = 0-10V/Phase Dim 96W Wet Location, 1% dimming (120-277V)



For:
 Static White
 Static White High Output
 Static White Free Cut

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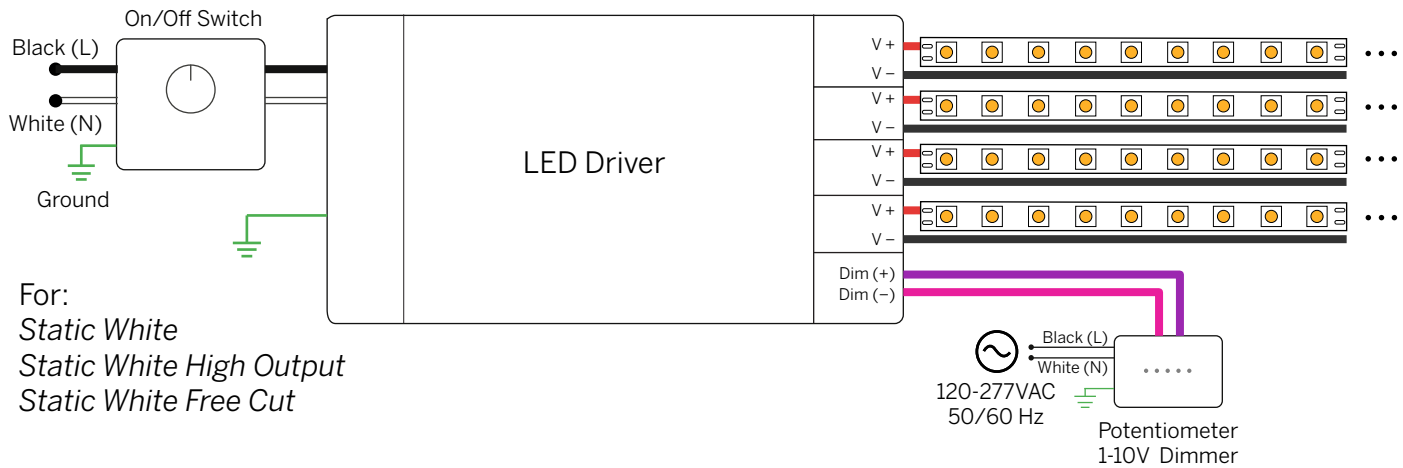
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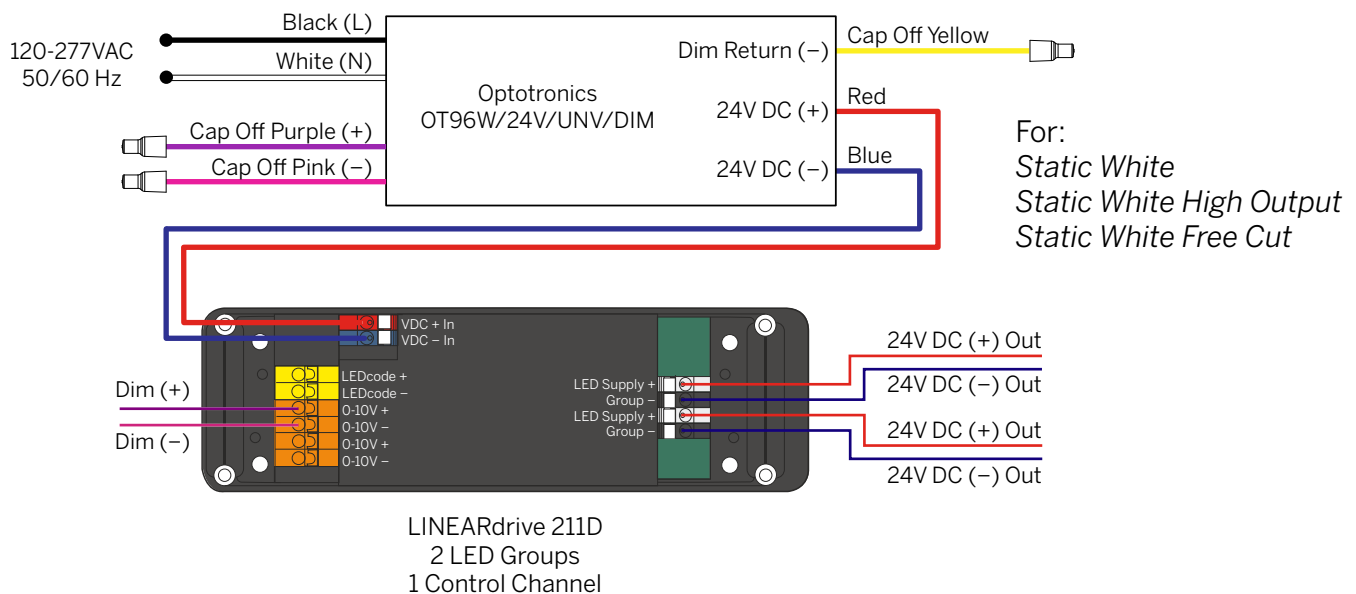
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Step 5 - **Wire Luminaire** (continued)

UNV384-WL = 0-10V/Phase Dim 384W Wet Location, 1% dimming (120-277V)



DALI-DT6 = eldoLED DALI-2 (DT6), 0.1% dimming (120-277V)



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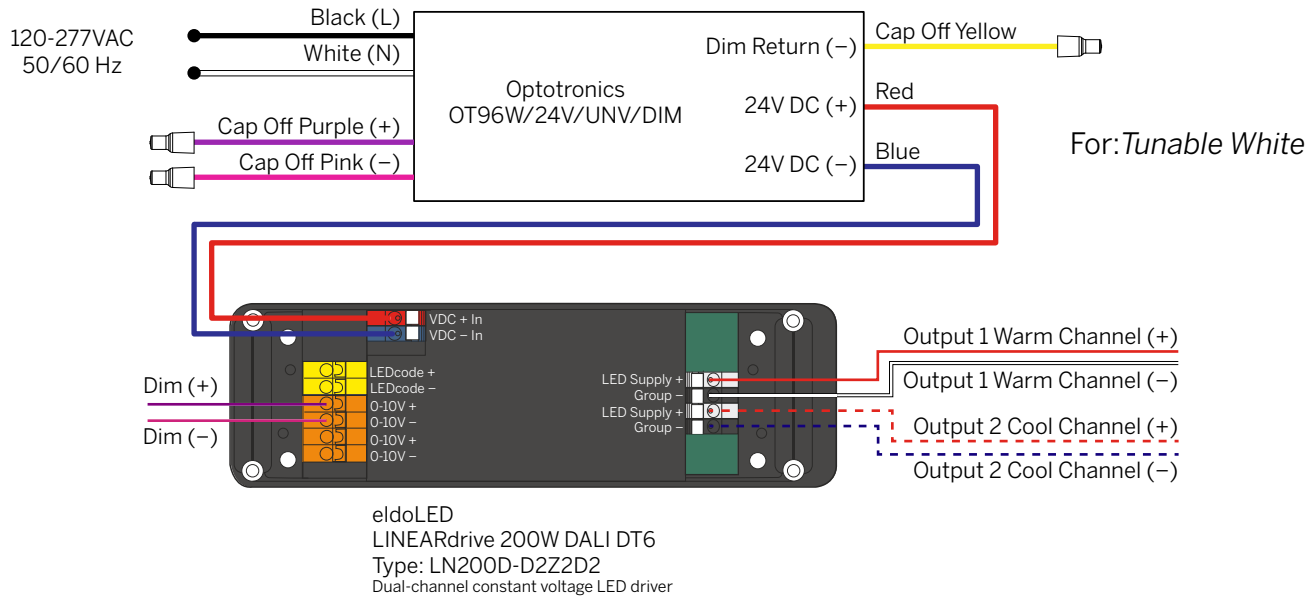
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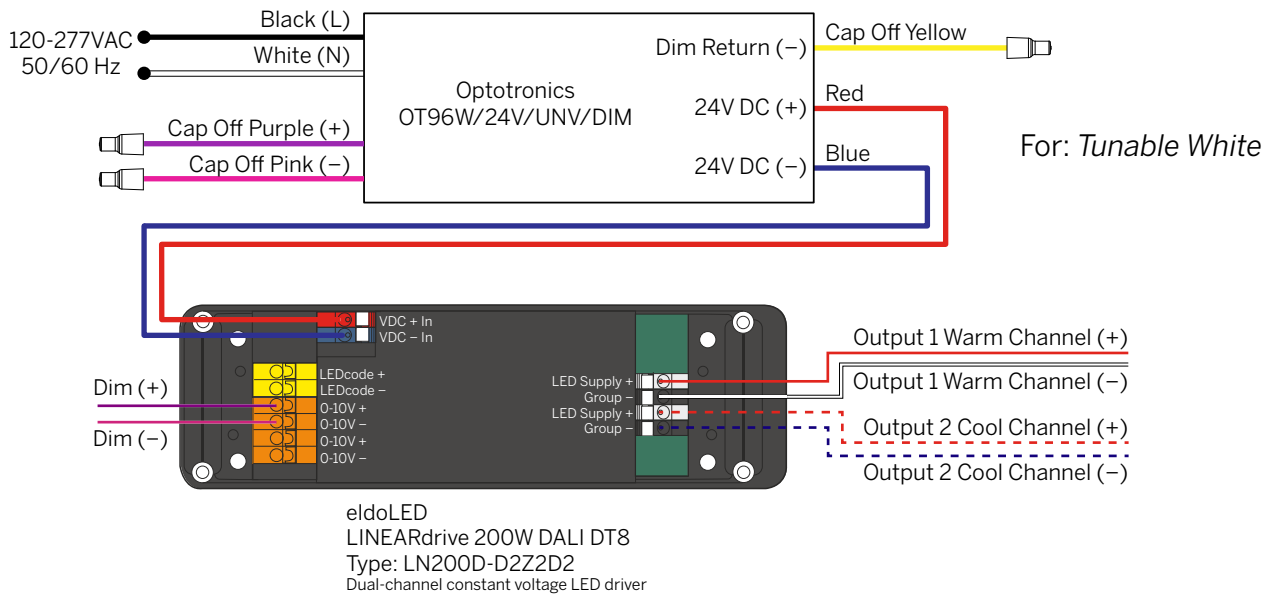
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Step 5 - **Wire Luminaire** (continued)

DALI-DT6 = eldoLED DALI-2 (DT6), 0.1% dimming (120-277V)



DALI-DT8 = eldoLED DALI-2 (DT8), 0.1% dimming (120-277V)



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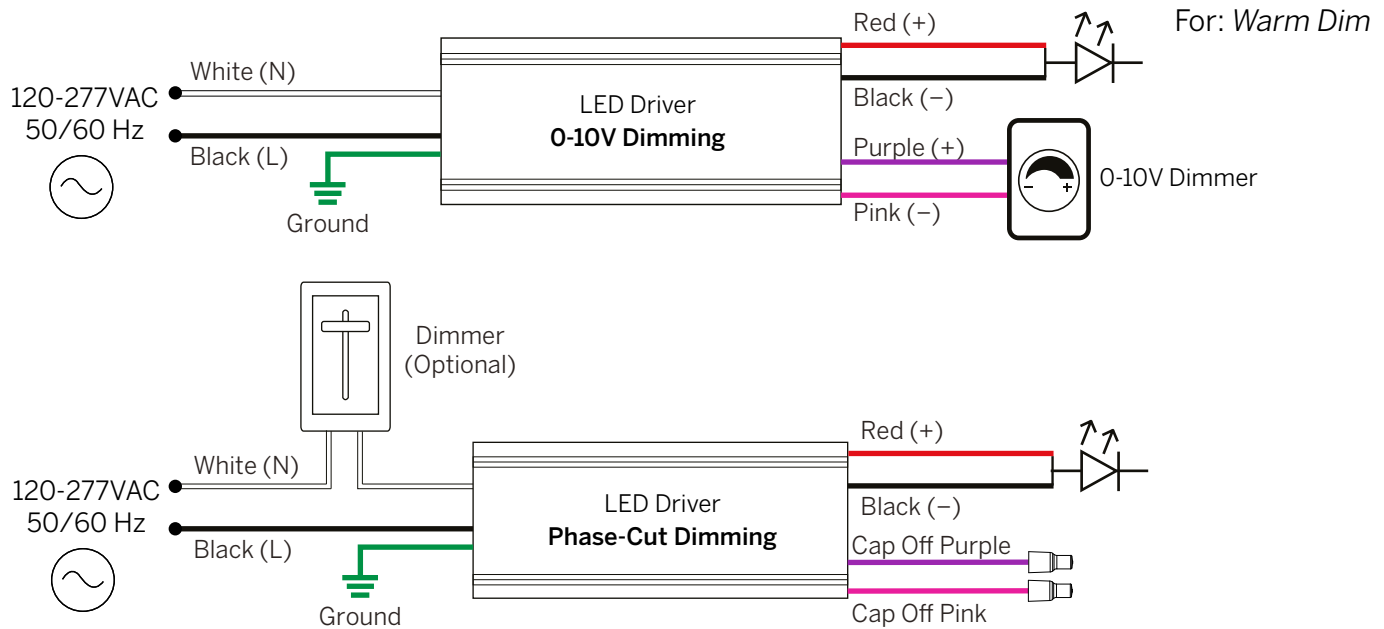
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Step 5 - **Wire Luminaire** (continued)

MAGSDM96-WD = 0-10V/Phase Dim 96W, 0.1% CCR dimming (120-277V) Phase - 120V only



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