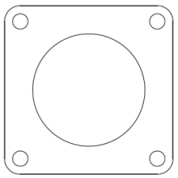
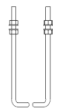
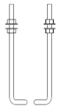
Included components



1x – wooden drill template



12ft, 14ft, 16ft, 20ft Pole height



25ft Pole height 5in/6in dia

Included: hardware is galvanized

12ft, 14ft, 16ft, 20ft (5in) pole: (4) anchor bolts, 3/4"-10 x 17" x 3" hook , (8) heavy hex nuts, 3/4" x 10, (8) flat washers, .81 ID" x 1.5" OD x 0.13" thick
25ft (5in/6in) pole: (4) anchor bolts, 3/4"-10 x 17" x 3" hook , (8) heavy hex nuts, 3/4" x 10, (8) flat washers, .81 ID" x 2" OD x 0.13" thick

Tools Required

- Safety glasses
- Wrenches, 1-1/4" for 4.5m, 6m or 8m (5in/6in) pole
- Level

LIGHTING LAYOUT RECOMMENDATIONS:
Refer to the product data sheet available at www.landscapeforms.com for recommendations for light pole spacing.

Landscape Forms is not responsible for site preparation and footings. The following chart gives necessary information for calculating proper footing size, depending on the specified light pole.

WARNING! Pole mounted luminaires must be attached before pole installation. Failure to do so may cause vibration damage to the pole and will void the pole warranty.

Calculations per AASHTO 1994, assuming base of the pole is at grade level.

INSTALLATION PROCEDURE FOR ANCHOR BOLTS:

1. Prepare footing as required by local codes.
2. Install anchor hooks, hex nuts, washers and wooden template as shown in Fig 3. Level template in all directions. **Note**: template thickness is less than base plate thickness. Dimensions given account for the difference.
3. After footing has properly cured, remove wooden template. Do not remove lower hex nuts or washers.

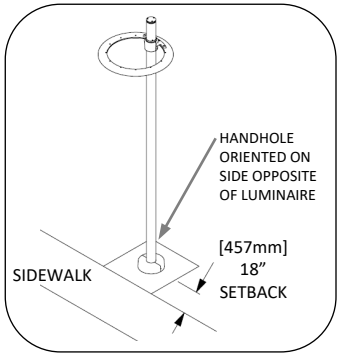


Fig. 1 – Sidewalk setback

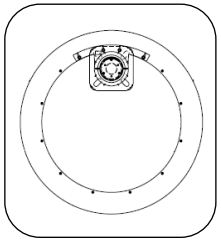


Fig. 2 – Base plate orientation to luminaire

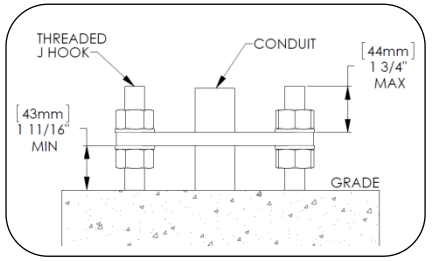
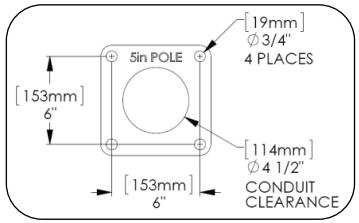
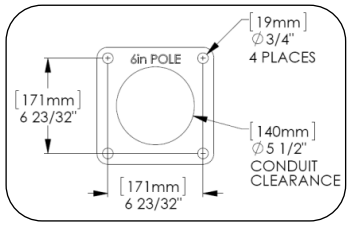


Fig. 3 – Anchor install detail, 5in or 6in pole



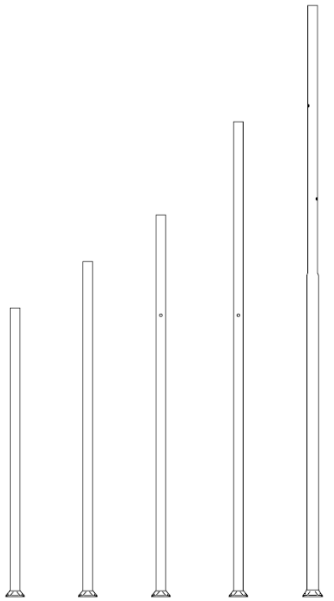
5" diameter pole



6" diameter base pole

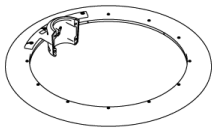
Pole Size	Wind Speed	Max luminaires	Base Overturning Moment (ft-lbf)	Base Shear (lbf)	Max EPA (ft^2)	Max luminaire weight (lbs)
5" dia x .125" wall x 12ft	110 mph w/ 1.3 gust	1	1896	223	1.64	48
5" dia x .125" wall x 14ft	110 mph w/ 1.3 gust	1	2382	248	1.64	48
5" dia x .125" wall x 16ft	110 mph w/ 1.3 gust	1	2967	276	1.64	48
5" dia x .125" wall x 16ft	110 mph w/ 1.3 gust	2	3485	316	2.58	78
5" dia x .156" wall x 20ft	100 mph w/ 1.3 gust	2	4877	372	2.58	78
5" dia x .188" wall x 20ft	100 mph w/ 1.3 gust	3	4923	369	3.52	118
6" / 5" dia stepped x .188" wall x 25ft	100 mph w/ 1.3 gust	3	7293	434	3.52	118

Included components



12ft 14ft 16ft 20ft 25ft

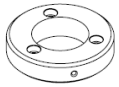
Pole with base plate



Luminaire

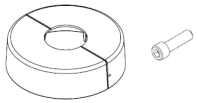
clamp

Driver housing



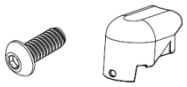
Pole adapter

5/16-18 x 1-1/4" socket head cap screw



Cover plate assembly (optional)

3/8-16 x 1-1/2" socket head cap screw with lock washer and flat washer



Nut cover with 1/4-20 x 1/2" button head cap screw

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

Important: Read all installation instructions before proceeding.

Landscape Forms is not responsible for site preparation and footings. Refer to the installation guide for the Typology Ring Light anchor kit for installing the anchor bolts.

CAUTION! This unit is heavy. To avoid injury or damage to the finish, we recommend using a crane or lift for hoisting the unit onto the anchors. Do not lift unit by the luminaire head.

WARNING! Pole mounted luminaires must be attached before pole installation. Failure to do so may cause vibration damage to the pole and will void the pole warranty.

WARNING!: LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.

Tools Required

- Safety glasses
- Wrenches, 1-1/8"
- Screwdriver, Phillips
- Wiring tools and connectors
- Proper personnel, crane or lift for hoisting unit onto anchors
- Level
- Hex keys, ¼", 5/16", long-handled 3/16"
- 5/16" hex key socket with ratchet drive
- Twist lock photo eye, if required

INSTALLATION INSTRUCTIONS:
Note: It is recommended to mount the luminaire to the pole before lifting the pole into position on the anchors. Installation works best to have the pole in a horizontal position, elevated off the ground to allow room for the luminaire to hang unobstructed.

Line-in wiring is run from the bottom of the pole to the driver plate at the top of the pole. Wiring harnesses for luminaire(s) are pre-wired to the driver plate at the factory. Wiring harnesses are routed down the pole from the top driver plate, one harness for each luminaire.

1. Attach adapter plate to top of pole using (3) 5/16-18 X 1-1/4" hex socket head cap screws, see Fig. 1.
2. Remove the driver plate assembly from the driver housing tube. Retain screws and washers. See Fig. 2.
3. Run line-in voltage wiring up through bottom of pole.
4. Run wiring through driver tube, with holes at the bottom of the tube oriented closest to the pole, see Fig. 5.
5. Run wiring through grommet on the driver plate. Tie a knot with wiring after running through the grommet to act as a strain relief before connecting to terminal block. See Fig. 6.
6. Connect wiring to terminal block. Reattach driver plate assembly to driver tube using hardware from step 1. Install photo-eye sensor into twist-lock receptacle, if applicable. See Fig. 3.
7. Route the wiring harness(es) down the pole to the appropriate holes in the pole for luminaire attachment. Wiring harnesses are different lengths according to luminaire mount locations. Pull the wiring harness connector through the luminaire mount hole on the pole. See Fig. 7.
8. Attach the driver housing to the adapter plate, alternating screw tightening until all screws are flush with the tube and snug. See Fig. 7.

Luminaires must be mounted in a specific order, starting with the lowest luminaire (closest to the ground).

9. Turn the pole so the hole for the lowest luminaire is facing up.
10. Slide the luminaire into position, resting it on protective padding on the pole just above the mount hole location. See Fig. 7.
11. Connect luminaire wiring to wiring harness.
12. Lift luminaire and guide wiring back into mount hole on pole, aligning the luminaire clamp boss into the mount hole.
13. Attach the front half of the luminaire clamp using (4) 3/8-16 x 1-1/2" socket head cap screws, lock washers and washers. Alternate tightening screws until all are snug. See Fig. 8.
14. Repeat luminaire install process for any remaining luminaires.
15. Lift the light pole into position over the installed anchors (refer to Typology Ring Light anchor kit installation guide) as shown in Fig. 9. Ensure that the base plate is resting on all four washers.
16. Install washer, lock washer and hex nut as shown in Fig.9.
17. Plumb and level the pole and tighten all anchors.
18. Install the nut covers as shown in Fig. 10 or the cover plate as shown in Fig. 11.

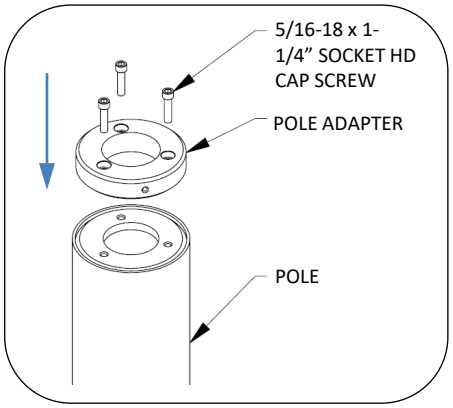


Fig. 1 – Install pole top adapter

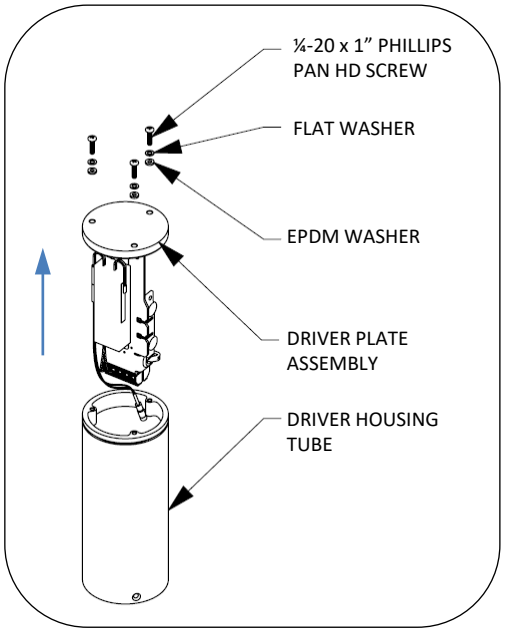


Fig. 2 – Remove driver plate assembly

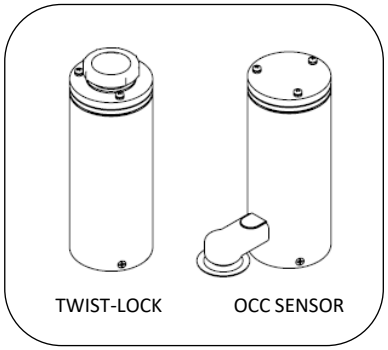


Fig. 3 - Optional driver tube assemblies

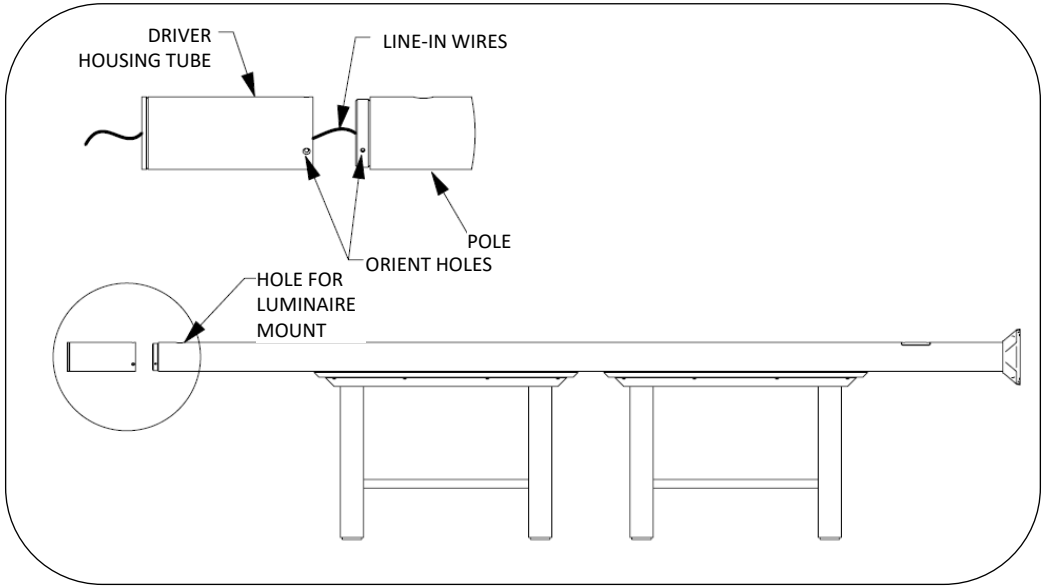


Fig. 5 – Remove driver plate assembly

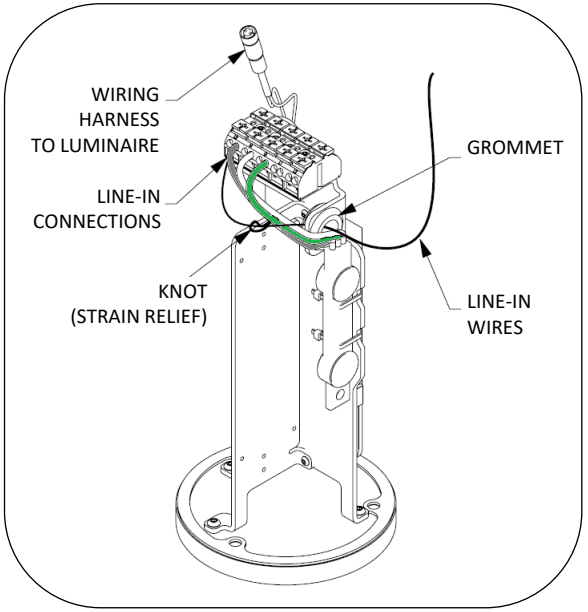


Fig. 6 – Remove driver plate assembly

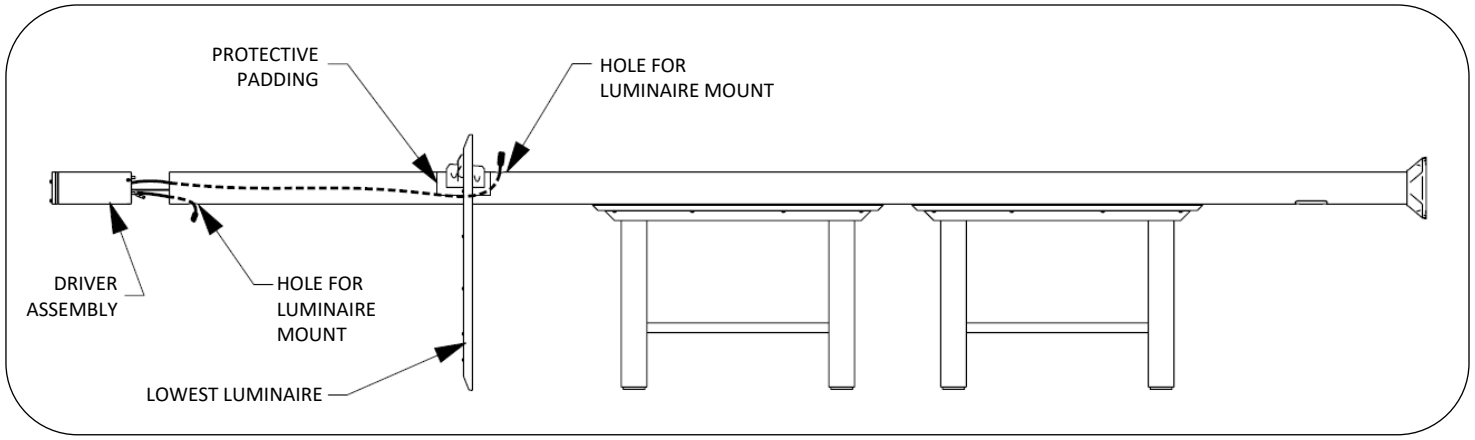


Fig. 7 – Install lowest luminaire

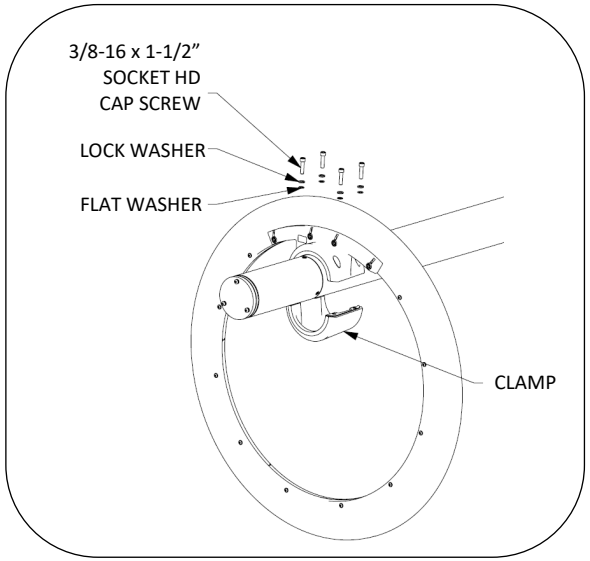


Fig. 8 – Install clamp

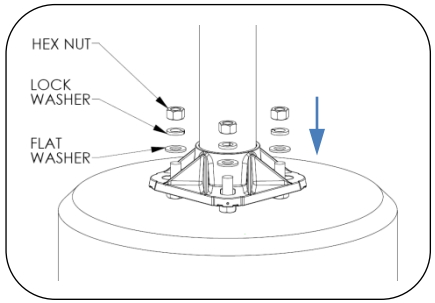


Fig.9 – Install pole

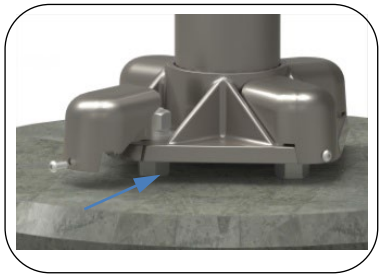


Fig. 10 – Install nut covers

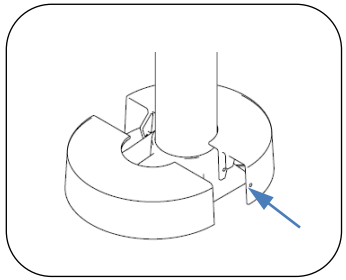


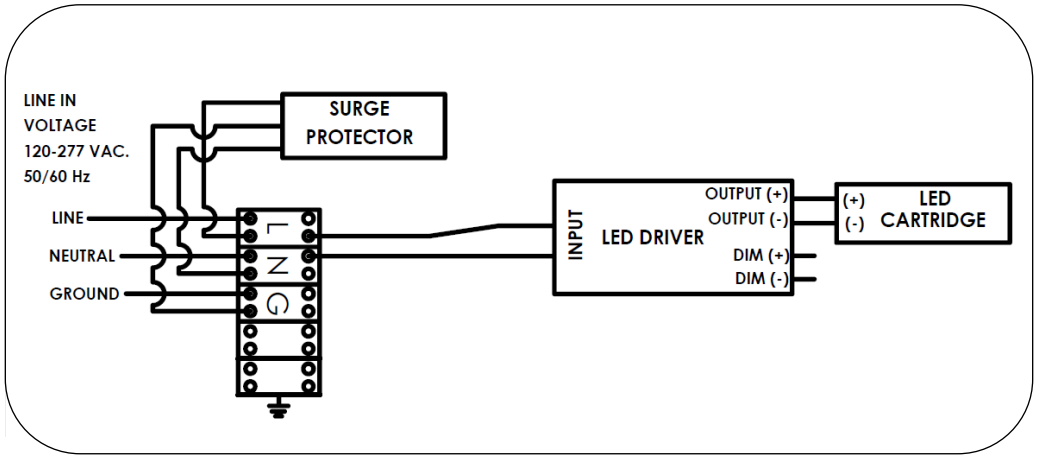
Fig. 11 – Install cover plate

PROCEDURE FOR WIRING RING:
The Typology Ring light luminaire is assembled at the factory. The light cartridge is mounted into the head of the Ring and will not need to be removed during installation. Use of LED drivers other than the supplied unit is not recommended and will void the warranty.

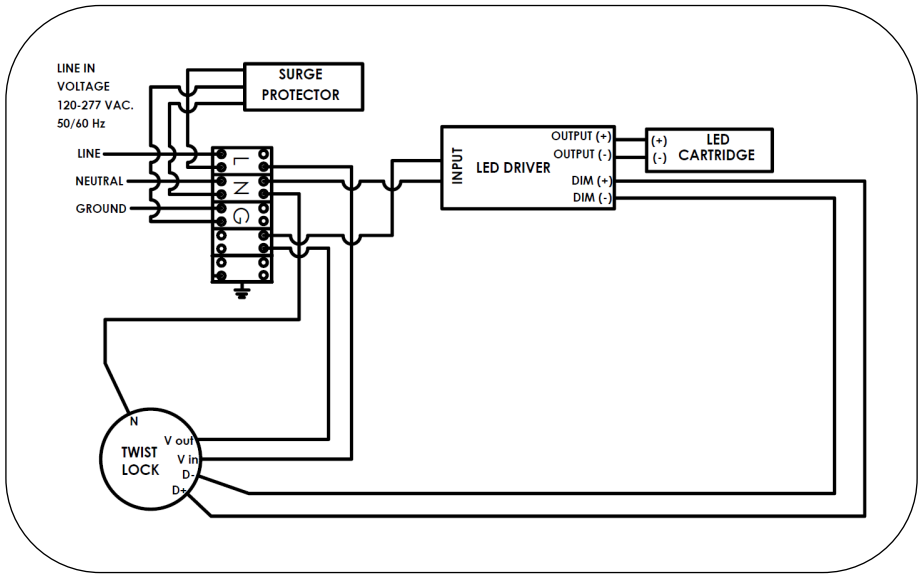
The wiring schematics are to be used to connect the unit to line voltage. It is the responsibility of the installer to make sure that all connections are made in accordance with the NEC and local building codes. Connection hardware not included.

Line-in wires should be connected to the terminal block as shown. Optional dimming control is not included.

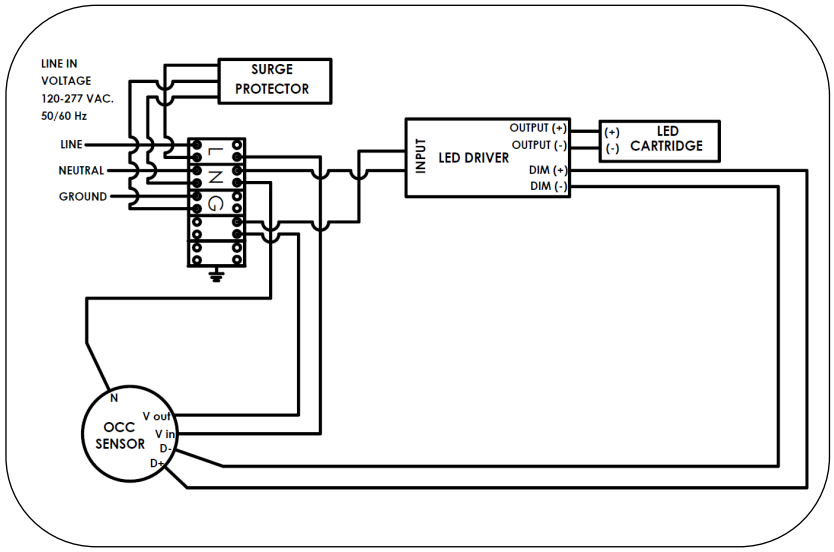
WARNING: LED cartridge and driver are not rated for connection or disconnection while energized. Doing so may damage LEDs and will void the warranty. Disconnect incoming power before making or breaking any electrical connections.



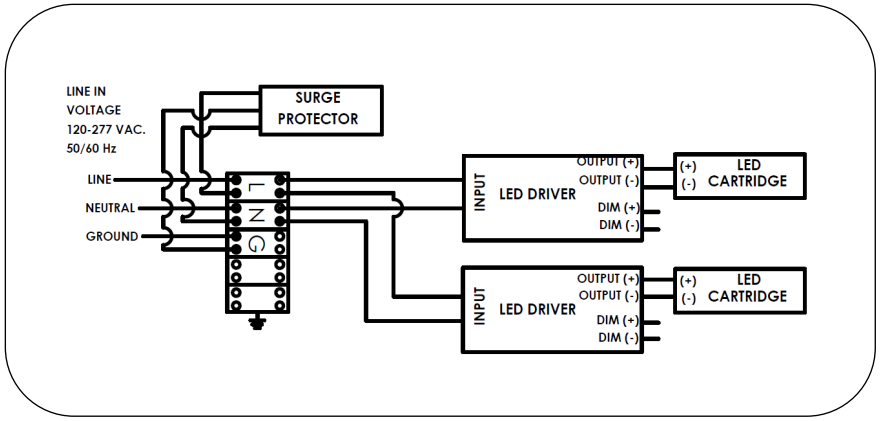
WIRING DIAGRAM: single luminaire, no twist lock



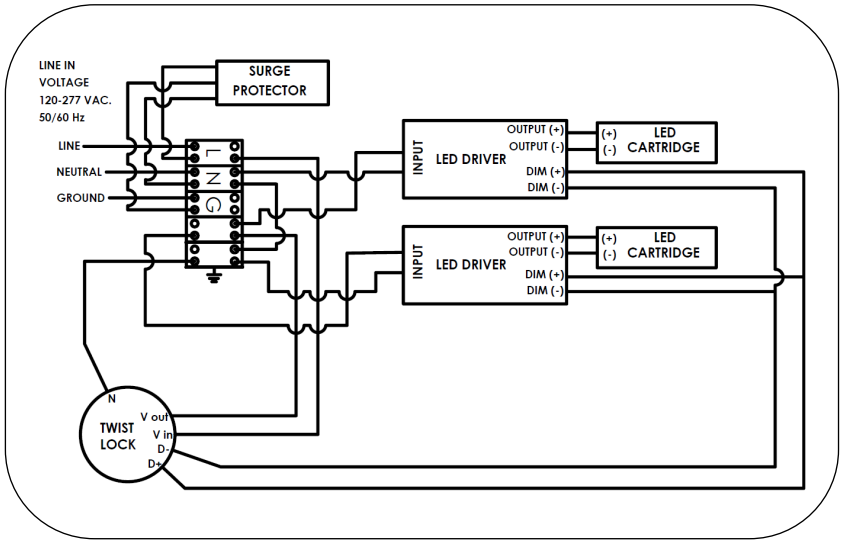
WIRING DIAGRAM: single luminaire, with twist lock



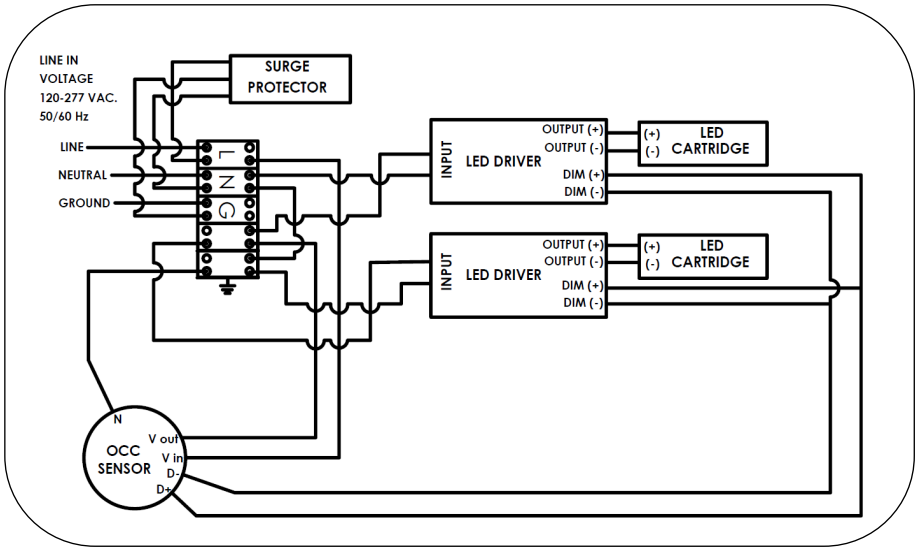
WIRING DIAGRAM: single luminaire, with occupancy sensor



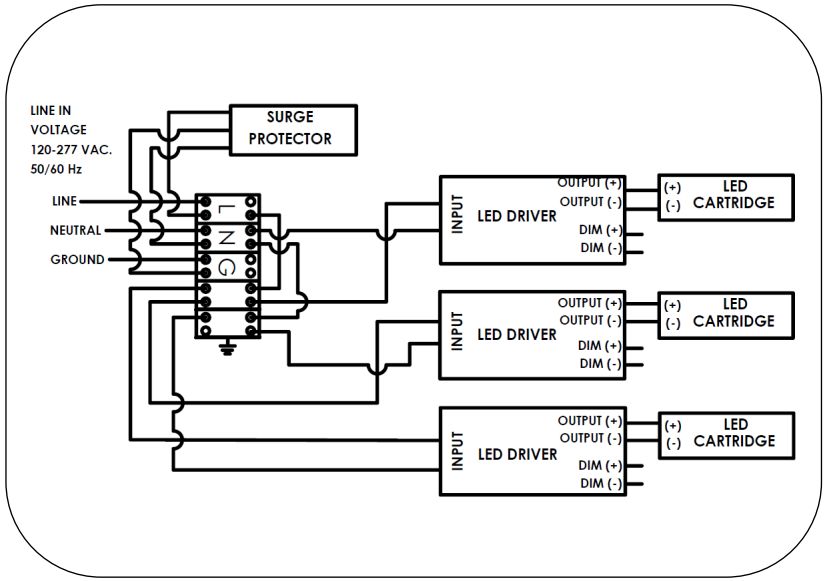
WIRING DIAGRAM: double luminaire



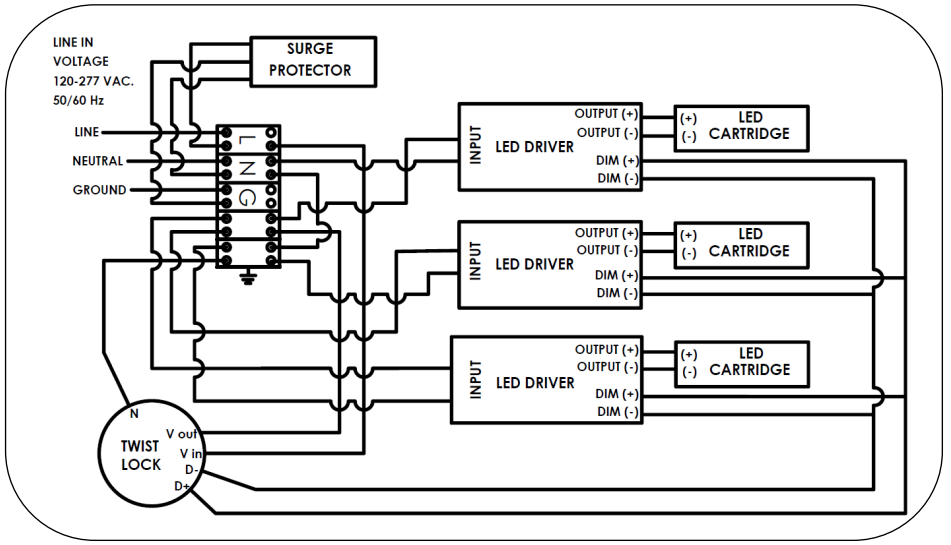
WIRING DIAGRAM: double luminaire, with twist lock



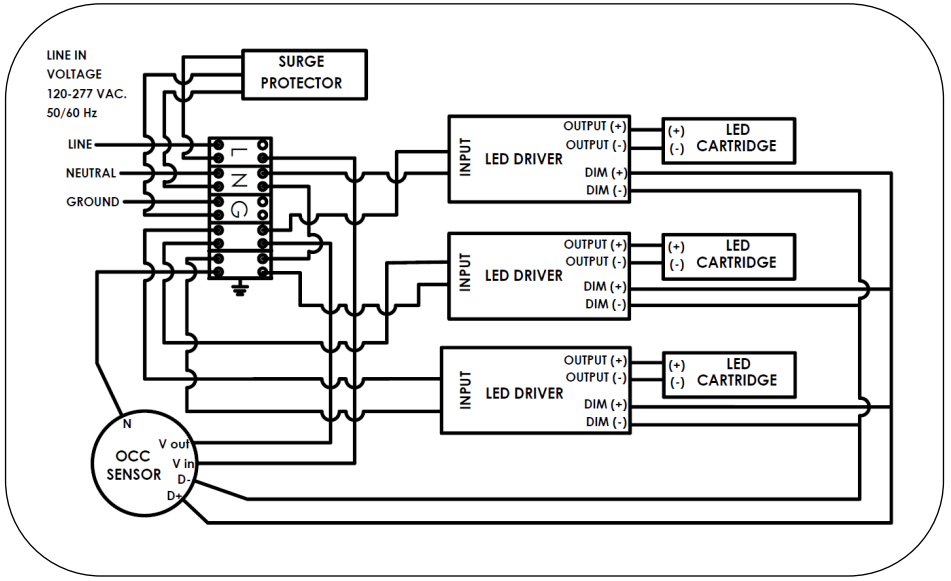
WIRING DIAGRAM: double luminaire, with occupancy sensor



WIRING DIAGRAM: triple luminaire



WIRING DIAGRAM: triple luminaire, with twist lock



WIRING DIAGRAM: triple luminaire, with occupancy sensor