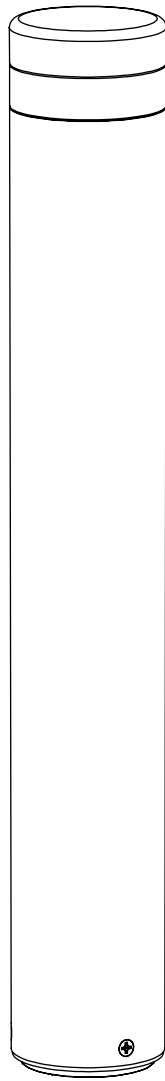
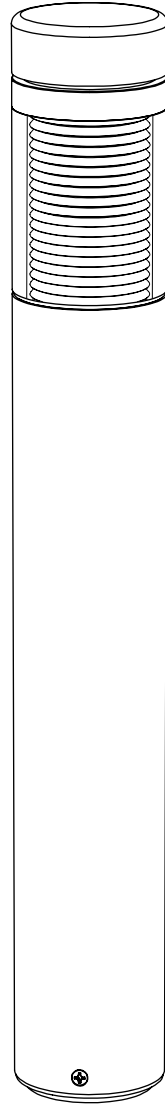


Installation Instructions – ASPEN 1900 Series Mid-Sized Bollard



1900-OA



1900-IL

Installation Instructions – ASPEN 1900 Series Mid-Sized Bollard

WARNING

Make certain power is OFF before starting installation or attempting any maintenance.

WARNING

Risk of fire/electric shock. If not qualified, consult an electrician. This equipment to be installed by trained and qualified personnel.

WARNING

Risk of Electric Shock - Disconnect power at fuse or circuit breaker before installing or servicing.

WARNING

Risk of Burn - Disconnect power and allow fixture to cool before servicing.

WARNING

Risk of Personal Injury - Fixture may become damaged and/or unstable if not installed properly.

WARNING

Risk of Burn - Disconnect power and allow fixture to cool before servicing.

NOTE: These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every possible contingency during installation, operation or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for user's purpose, please contact your nearest representative.

NOTE: Care must be taken not to set lighting fixture down on optical lenses or lift fixture in lens area.

NOTE: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or any sharp objects. Proper grounding is required to ensure personal safety.

NOTE: Specifications and dimensions subject to change without notice.

NOTE: Replace removable parts after servicing.

IMPORTANT: Read carefully before installing fixture. Retain for future reference.

GENERAL: Upon receipt of the fixture, thoroughly inspect for any freight damage which should be brought to the attention of the delivery carrier. Compare the catalog description listed on the packing slip with the fixture label on the housing to assure you have received the correct material.

SAFETY: This fixture must be wired in accordance with the National Electrical Code and applicable local codes and ordinances. Proper grounding is required to insure personal safety. Carefully observe grounding procedure under installation section.

APPLICATIONS: This lighting fixture is designed for outdoor lighting services, and should not be used in area of limited ventilation or inside high ambient temperature enclosures. It must be stored in a dry location prior to installation. Do not expose lighting fixture to rain, dust or other environmental conditions prior to installation. Best results will be obtained if installed and maintained according to the following recommendations.

IMPORTANT LISTINGS AND CERTIFICATIONS SPECIFIC TO FIXTURE:

- SUITABLE FOR WET LOCATIONS.
- SUITABLE FOR GROUND MOUNT ONLY.
- SUITABLE FOR OPERATION NOT EXCEEDING 40°C AMBIENT

INSTALLATION

Step 1: Review Package Contents

1. Unpack ASPEN Series Bollard and ensure that all included parts are present. (Figure 1 and Figure 2.)

Note: Anchor bolt assembly components may have shipped ahead of fixture for early installation..

ASPEN 1900-OA Series Mid-Sized Bollards

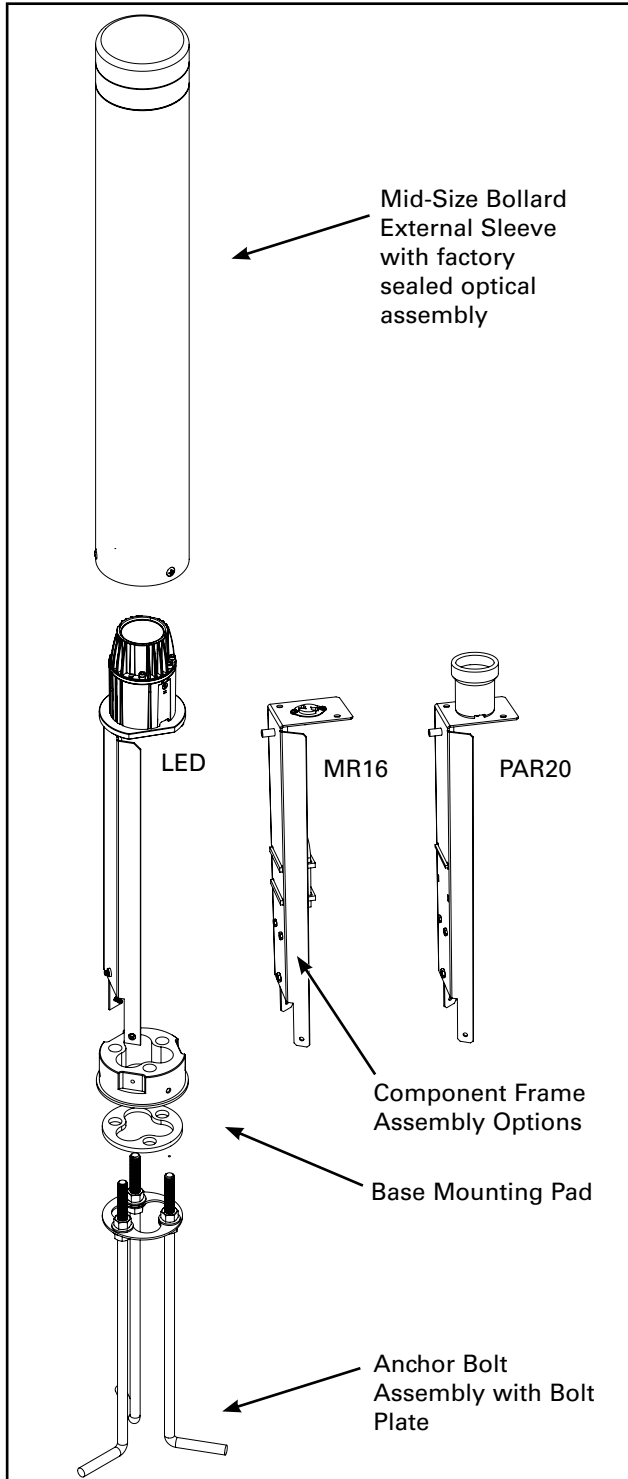


Figure 1.

ASPEN 1900-IL Series Mid-Sized Bollards

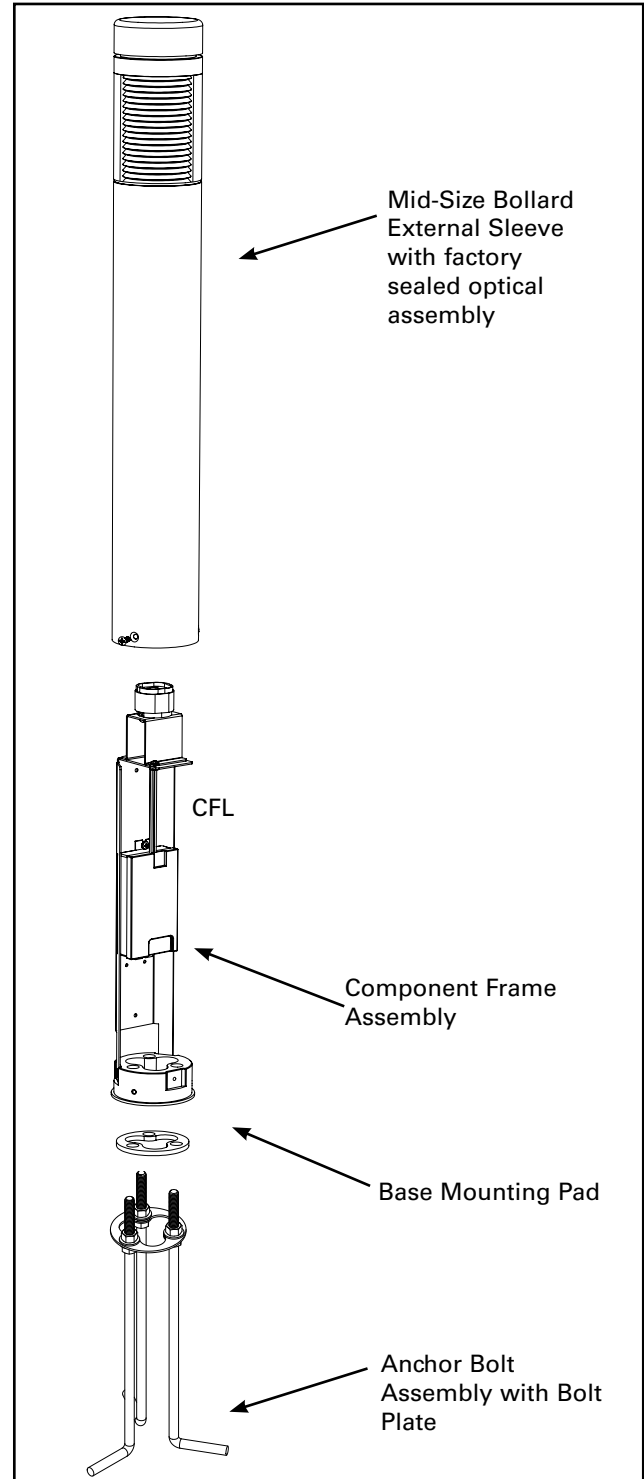


Figure 2.

Step 2: Anchor Bolt Installation

1. Disconnect or turn fixture power OFF prior to performing all installation and maintenance activities. Trench as appropriate and place conduit as required by the National Electric Code and any other applicable rules, regulations, and requirements. Ensure that there is enough depth in trench to accept anchor bolt assembly.
2. Remove the external sleeve from the fixture base. Locate anchor bolt assembly.
3. Place anchor bolt assembly (three anchor bolts attached to pad plate with nuts) over conduit and secure for concrete pour. Make sure that the pad plate is flush with the concrete surface, and that the assembly will not be dislodged during concrete pour operations. (Figure 3.) The base has been designed to accept two (2) conduits for daisy chaining when necessary.

Note: Ensure that there is enough thread length above the pad plate to accept the fixture base and neoprene pad, and to allow 2" to protrude from the top of the base. (Figure 4.)

4. Pour concrete. Make sure that pad plate is as level as possible. Allow concrete to cure.

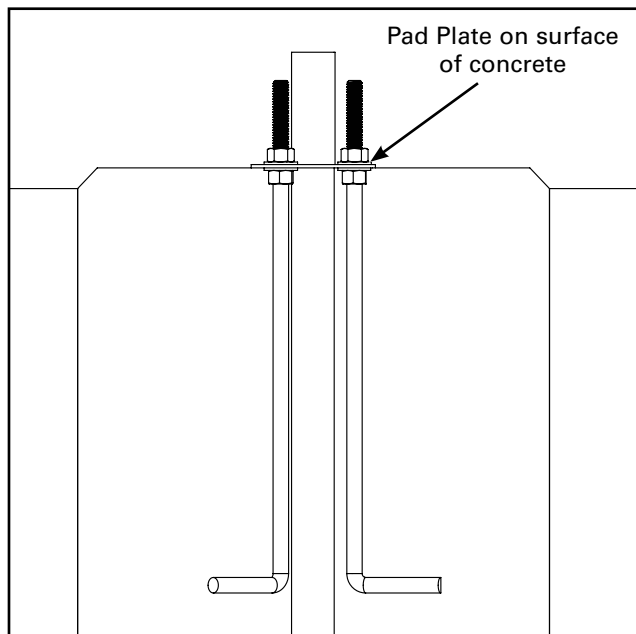


Figure 3.

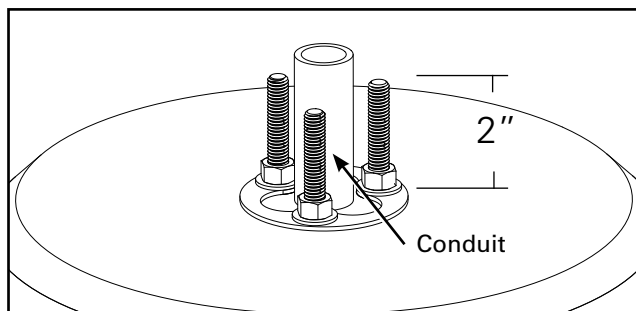


Figure 4.

Step 3: Base Installation

1. Remove the top three nuts from the anchor bolts. (Figure 5.)
2. Place the base mounting pad and base onto the bolts.
3. Replace the top three nuts with the supplied lock nuts to ensure that the base remains secure to the anchor bolts.

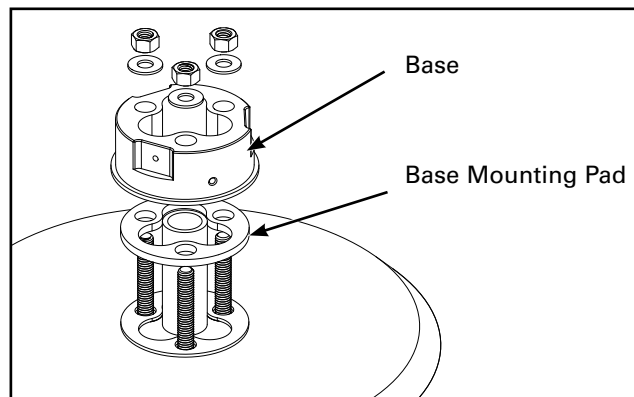


Figure 5.

Step 4: Leveling Base

1. To level the base, adjust the top three lock nuts.
2. As you tighten the nuts, the base compresses the underlying neoprene pad for quick and easy leveling.

Step 5: Connecting to Power

1. Pull line-voltage wire leads through the conduit and fixture base and make connection to component frame assembly input leads (LED module shown) (Figure 6.) Connect supply wires to appropriate luminaire leads.
 - Supply side ground wire to green luminaire lead.
 - Supply side neutral wire to white luminaire lead.
 - Supply side line voltage wire to black luminaire lead.
2. Secure the external sleeve to the base by tightening the three (3) counter-sink screws. (Figure 7) Recommend tightening by hand as to not strip the screw

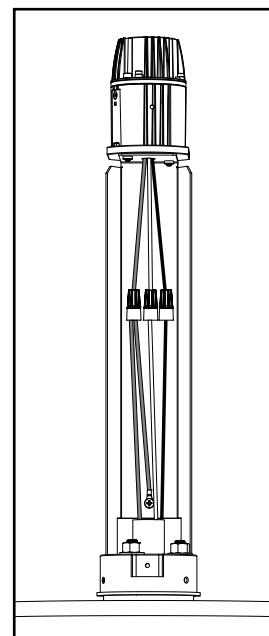


Figure 6.

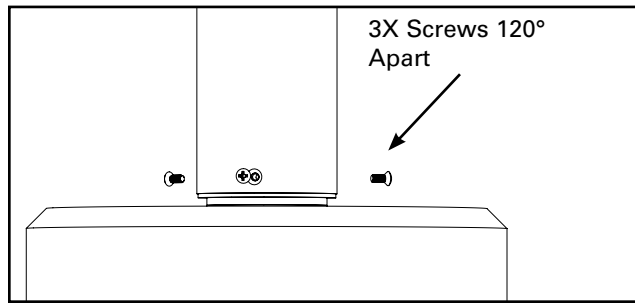


Figure 7.

Step 6: Relamping

1. Disconnect or turn fixture power OFF prior to performing all maintenance activities.
2. Remove external sleeve from base by removing three screws and placing in a safe location (Figure 8).
3. **ATTENTION: Do not try to unscrew optical assembly to access lamp. Tampering with optical assembly will void fixture warranty.**
4. Cat. 1900-OA (MR16): Align and insert the two pins at the bottom of the lamp with the two in GU5.3 socket. Make sure base of lamp touches the base of the socket. Do not rotate lamp when installing or removing from socket.
5. Cat. 1900-OA (PAR20): Thread lamp clockwise into socket until firmly seated. This fixture only accepts PAR20, 50W max incandescent lamps.
6. Cat. 1900-OA (LED): See LED Module Section (Figure 9).
7. Cat. 1900-IL (Compact Fluorescent Lamp): Align pins with socket. Place the lamp in the socket and turn clockwise to snap lamp into place. This fixture accepts either 26W, 32W or 42W compact fluorescent lamps.
8. Place external sleeve over component frame assembly and secure to base using the three counter-sink screws.

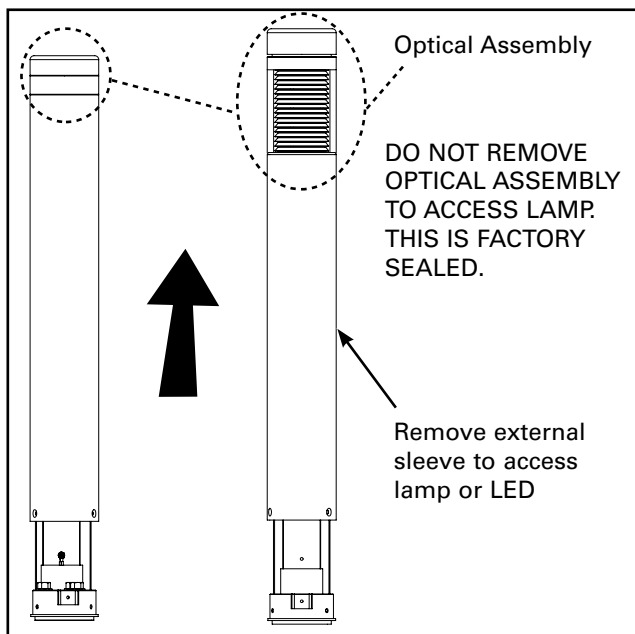


Figure 8.

REVIEW: LED Module

1. Push button enables switching between four light output modes (100%, 80%, 55% and 18%). Module is factory set to 100%.
2. The selected setting is stored in memory. The device automatically switches to selected mode after power has been interrupted. If the module is connected to a dimmer, the push button is automatically de-activated and the dimmer will be the sole control method of the light output.

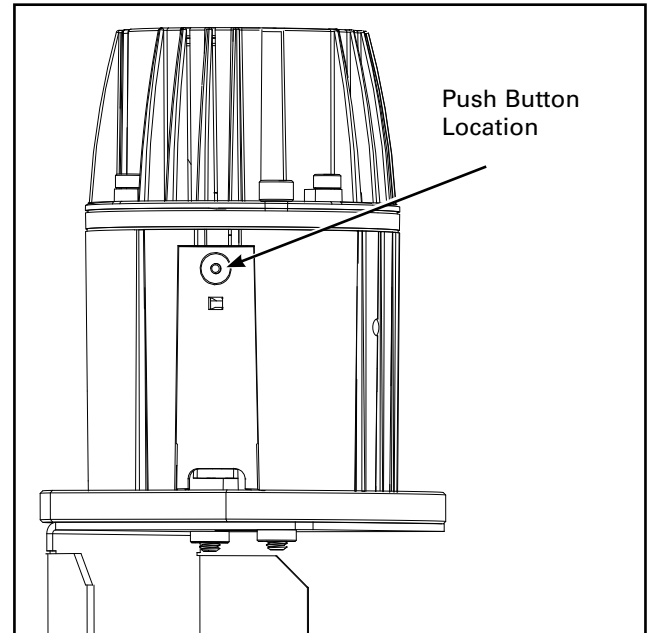


Figure 9.

Reference: Anchor Bolt Pad Plate Template

1. Template is not to scale and to be used as a reference only (Figure 10).

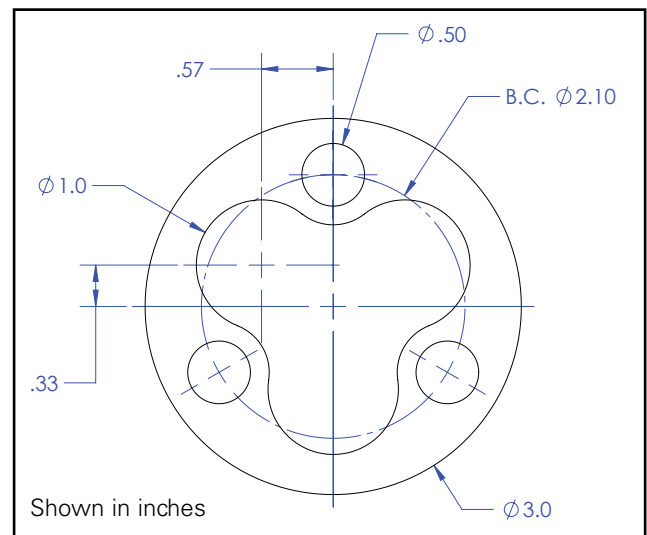


Figure 10.

Warranties and Limitation of Liability

Please refer to www.cooperlighting.com/WarrantyTerms for our terms and conditions.

Garanties et limitation de responsabilité

Veuillez consulter le site www.cooperlighting.com/WarrantyTerms pour obtenir les conditions générales.

Garantías y Limitación de Responsabilidad

Visite www.cooperlighting.com/WarrantyTerms para conocer nuestros términos y condiciones.

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Imprimé aux États-Unis
Impreso en los EE. UU.
Publication No. ADL141353
Rev Date: December 2014

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