

## Installation Instructions

### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS.

#### IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

(Failure to follow the warnings and instructions on this sheet could result in fire, injury, failure of product, and/or voiding of warranty.)

1. Do not touch luminaire while lamp is on. Turn off/unplug and allow to cool before replacing lamp.
2. Lamp gets HOT quickly! Contact only switch/plug when turning on.
3. Do not touch hot lens, body, stem, cap or shade.
4. Keep lamp away from materials that may burn.
5. Do not touch lamp at any time. Use a soft cloth. Oil from your skin may damage lamp.
6. Do not operate with damaged or missing parts.
7. Do not disassemble beyond cap removal to facilitate lamp and/or accessory installation or replacement.
8. Remove any debris accumulated in the cap periodically.
9. Do not install within 10 feet of a pool, spa, or fountain.
10. Have installed in accordance with all applicable installation codes and standards by a person familiar with the construction, operation, and hazards involved.
11. Consult a qualified electrician to ensure correct branch circuit conductor.
12. Use only cable rated for proper voltage. Cable buried more than 6" must be suitable for direct burial. Direct burial cable may be ordered from Vision3 Lighting.

#### Installation:

##### Notes:

- This fixture should not be mounted in such a way that it is buried or in direct contact with the ground or soil.
- (For Integral LED option only) Integral LED module and LED optics are not field replaceable / changeable.
- (For COB LED w/ Driver option only) System design should allow an additional 2W per fixture (6W for LE2-0400 & 10W for LE2-0700 or LE2-1000), to reduce system stress during start up.
- LED ratings subject to change without notice. See website or contact V3 for most current info.

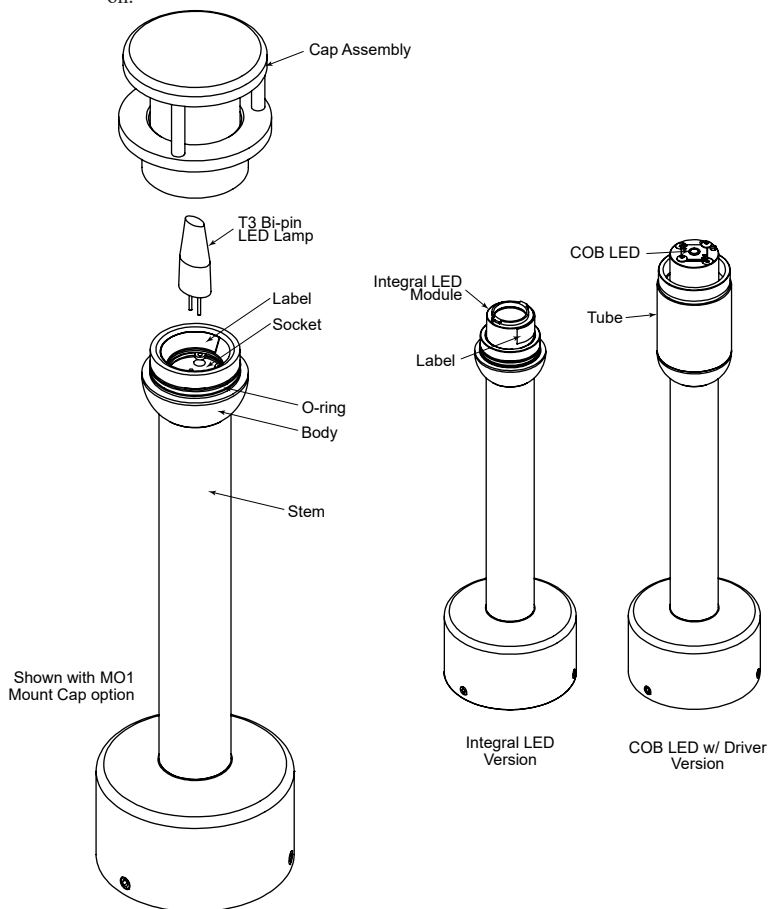
**Caution!** Fixture will be hot if lamp is on. Remove power and allow fixture to cool before performing any adjustments or maintenance.

1. Unpack the PA2 Marker Light from its shipping container. Note: The PA2 Marker Light may be packaged partially un-assembled for ease of handling and shipping.
2. Check that there are no damaged or missing components. Contact Vision3 immediately if there are any damaged or missing components.
3. The PA2 Marker Light can be ordered with a wide selection of mount options. Consult the mount installation instructions for information specific to that mount.
4. Run conduit and/or cable (not supplied) to the desired location of the fixture. Note: Check all applicable building codes for requirements regarding landscape lighting conduit and/or cable.
5. Install per the mount installation instructions. Note: Make sure any components not intended for contact with the soil (such as stems, mount caps, or anything aluminum) are not in contact with the soil. Failure to do this can cause the parts to corrode and could void the warranty.
6. Connect the fixture leads to the power supply cable using appropriate water tight connectors (not supplied). Failure to use water tight connectors, or wire in a water tight manner, will allow water to travel thru the wires into the fixture, causing the fixture to fail. Note: Be sure that the power being supplied matches the rating on the fixture Label.
  - a. Bi-Pin/Integral LED/COB LED w/ Driver: white fixture leads or 16-2 low voltage cable connect to transformer's secondary/output wiring.
    - 12V model options requires a remote transformer or mount option with integral transformer.
    - 12V models should only be powered and controlled by compatible transformers and control systems. Contact Vision3 Lighting for approved transformer / controls list. Using non-approved transformers / controls could cause the LED to not operate properly or fail.
7. Install the Lamp and Cap Assembly, as explained below.

#### Bi-Pin Lamp/LED Maintenance:

1. Remove Cap Assembly by holding Body, and un-threading Cap Assembly counterclockwise. Note: Hold Cap Assembly at base, below lens, while un-threading. **Caution - Fixture may be hot!**

2. Pull old lamp/LED straight out. **Caution! Lamp/LED may still be hot! Be sure lamp/LED has cooled before touching.**
3. Inspect O-ring for cracks or cuts. Replace or clean if needed.
4. Inspect socket for any damage.
5. Clean inside of fixture and Cap Assembly with a clean dry cloth.
6. Using a clean cloth, push new lamp/LED straight in, being careful to align pins. Note: Replacement lamp/LED must not exceed fixture ratings. Read the label inside of the body for appropriate lamp/LED type and ratings.
7. Install Cap Assembly by holding Body and threading on Cap Assembly clockwise. Note: Hold Cap Assembly at base, below lens, while threading on.



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#### Integral LED Maintenance:

LED module and LED optics are not field replaceable. Fixture must be returned to factory for LED module replacement or LED optics changes.

#### COB LED w/ Driver Maintenance:

##### Changing COB Chip:

1. Remove Cap Assembly and Tube by holding Body and un-threading counterclockwise. Note: Hold Cap Assembly at base, below lens, while un-threading. **Caution - Fixture may be hot!**
2. Note positioning and routing of COB leads. Disconnect the COB's Soldered Leads from the COB connector, by slowly twisting and pulling leads.
3. Remove the two COB Screws and remove the COB w/ Soldered Leads from COB Mount.
4. Thoroughly clean the COB Mount with a lint free towel. Note: Make sure the old Thermal Pad and any residue are removed from the COB Mount.
5. Remove clear plastic film from supplied Thermal Pad, and, using light pressure, apply to back of the new COB chip. Make sure pad is square and the cutouts are aligned with the new COB chip cutouts. Remove secondary clear plastic film from the exposed side of the Thermal Pad. Note: Only touch the edges of the COB as oils and dirt from your skin can damage the diodes.
6. Run the COB's Soldered Leads thru the Wireway Holes. **Caution - Do not stress solder joint at this could lead to premature COB failure.**
7. Place the COB chip on the COB Mount in the same orientation as the removed COB.
8. Add a small amount of blue Loctite (#242, not supplied) to COB Screws and install. **Caution - COB Screws should only be finger tight. Overtightening can lead to premature COB failure.**
9. Insert COB's Soldered Leads into the COB Connector in the same orientation as the removed leads. Note: Red COB lead should connect to red Driver lead and black COB lead should connect to blue Driver lead.
10. Install Tube and Cap Assembly by holding Body and threading on clockwise. Note: Hold Cap Assembly at base, below lens, while threading on.

##### Changing Integral Driver:

1. Remove Cap Assembly and Tube by holding Body and un-threading counterclockwise. Note: Hold Cap Assembly at base, below lens, while un-threading. **Caution - Fixture may be hot!**
2. Note positioning and routing of Driver wires. Disconnect the Driver Output Leads from the COB Connector, by lightly twisting and pulling.
3. Slowly pull and remove the Driver from the Bracket.
4. Disconnect the Driver Input Leads from the Fixture Connector, by slowly twisting and pulling.
5. Connect the new Driver Input Leads to the Fixture Connector.
6. Route Driver Output & Input Leads similar to the removed Driver and install new Driver onto Bracket. Note: Replace double sided tape as need (not supplied).
7. Connect the Driver Output Leads to the COB Connector, in the same orientation as the removed Driver. Note: Red Driver lead should connect to red COB lead and blue Driver lead should connect to black COB lead.
8. Install Tube and Cap Assembly by holding Body and threading on clockwise. Note: Hold Cap Assembly at base, below lens, while threading on.

