

# INSTALLATION INSTRUCTIONS SURFACE MOUNT SOFFIT (CANOPY) LIGHT

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FIGURE 1

	12" Hsg (305 mm)	16" Hsg (406 mm)	22" Hsg (559 mm)
A	2-3/8" (60 mm)	2-1/4" (58 mm)	3-1/2" (89 mm)
B	3-5/8" (91 mm)	3-1/2" (89 mm)	—
C	1-7/8" (48 mm)	2-3/4" (70 mm)	1-1/2" (38 mm)
D	3-3/16" (81 mm)	3-5/32" (81 mm)	3-3/16" (81 mm)
E	1-3/4" (45 mm)	3-7/32" (82 mm)	3-3/16" (81 mm)
F	4-15/16" (126 mm)	6-3/8" (162 mm)	6-3/8" (162 mm)

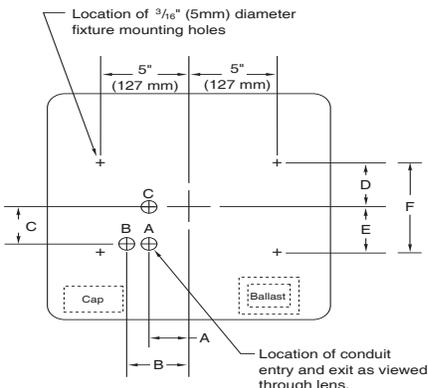
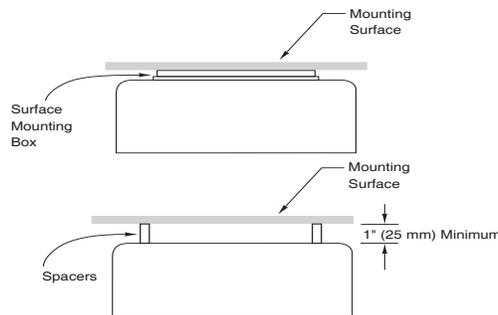


FIGURE 2



## CAUTIONS

### IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:  
**READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

- To reduce the risk of electrical shock, turn off power supply before installation or servicing.
- In continuously operating Metal Halide systems (24 hours/ day, 7 days/week), turn lamps off once per week for at least 15 minutes. Failure to comply increases the risk of violent lamp failure.
- 16" (406 mm) units with 300-400W ballasts, and 12" (305 mm) units with ballasts for 150W and above mounted to any combustible or insulated surface (such as wood or drywall) require the use of a surface mounting box or minimum 1" (25 mm) spacers. See Figure 2.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

### Notes:

- This carton contains fixture, ballast, lamp and mounting hardware.
- 12" (305 mm) square and 16" (406 mm) square housings with horizontal lamps have their widest beam spread perpendicular to the lamp.
- When mounting on soffits, mount with socket toward building. In all cases mount products so that sockets are oriented in same direction.
- If mounting 16" (406 mm) or 22" (559 mm) fixture over recessed junction box, installer must drill 3" (76 mm) diameter hole in back of housing for access to wiring. Caulk between housing and mounting surface to prevent water from entering the fixture or junction box. A high grade caulking material such as silicone rubber should be used. 12" (305 mm) fixtures do not require 3" (76 mm) diameter hole when mounting over recessed junction box.
- WIRE CONNECTORS MUST BE RATED FOR 150°C.
- 12" (305 mm) and 16" (406 mm) fixtures use 1/2" conduit entrances A and B. 22" (559 mm) fixtures use 1/2" conduit entrances A and C. See Figure 1.
- See fixture label for supply wire temperature required.

## SET BALLAST VOLTAGE

This fixture is normally equipped with dual or multivolt ballast and is factory set to the highest voltage. If another voltage is desired:

### Ballast with leads

- Disconnect highest voltage lead and recap with same wire connector.
- Strip appropriate lead and connect to incoming hot lead using supplied 150°C wire connector attached to leads.

### Ballast with tabs

- Relocate voltage selection tab to proper voltage tap.
- Press ballast tabs flat to avoid a short circuit to the reflector.

### Single voltage tap

- Make sure the voltage furnished to the fixture is the same as specified on the unit. The screws into the holes provided in the ballast housing. The threads are formed by a rolling rather than cutting action to provide a chip-free, superior strength, reusable thread. Screws must be fully tightened to insure a water tight seal around the perimeter of the fixture lens.

## FIXTURE PREP

- Loosen two captive #8-32 Phillips head lens screws in door frame and pull hinged door frame open. (Do not remove screws.)
- Loosen two captive #8-32 Phillips head screws in reflector support brackets and remove reflector. (Do not remove screws.)

## MOUNTING

- To mount 16" (406 mm) and 22" (559 mm) fixture over Recessed Junction box:**
  - Outline a 3" (76 mm) diameter hole on back of fixture that encompasses both 1/2" conduit entrances. Care should be taken not to include 3/16" (5 mm) diameter mounting holes in 3" (76 mm) diameter hole. See figure 1 and note #6 for conduit entrance and mounting hole locations.
  - Cut the 3" (76 mm) diameter outlined hole out of fixture using hole saw or other appropriate cutting device.
  - Caulk between housing and mounting surface to prevent water from entering fixture or junction box. A high grade caulking material such as silicone rubber should be used.
  - Go to steps 3, 4 or 5 to attach fixture to specific mounting surface.
- To mount fixture without recessed junction box or 12" (305 mm) fixture over recessed junction box.**
  - Remove either of two 1/2" conduit entrance plugs with 3/8" socket drive. See figure 1 and note #6 for conduit entrance locations.

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- b. Connect conduit to exposed hole in housing making sure connection is water tight. A high grade caulking material such as silicone rubber should be used.
  - c. Go to steps 3, 4 or 5 to attach fixture to specific mounting surface.
  - d. Connect conduit to exposed hole in housing making sure connection is water tight. A high grade caulking material such as silicone rubber should be used.
  - e. Go to steps 3, 4 or 5 to attach fixture to specific mounting surface.
- 3. To mount to sheet metal surfaces with access from above:**
- a. Rotate fixture to obtain desired light distribution. In all cases, mount products so that sockets are oriented in same direction. See **Notes 2 and 3**.
  - b. Using four #8x1" (25 mm) stainless steel machine screws, four 0.75" (19mm) diameter washers, four #8 sealing washers and four #8-32 hex nuts provided, attach fixture to surface making sure #8 sealing washers are located between screw head and inside wall of housing.  
**NOTE:** To prevent leakage, the silicone face of washer must be placed against inside wall of housing. See **Figure 1** for mounting hole locations. See **Figure 1** for mounting hole locations.
  - c. Go to step 6.
- 4. To mount to other metal surfaces.**
- a. Rotate fixture to obtain desired light distribution. In all cases, mount products so that sockets are oriented in same direction. See **Notes 2 and 3**.
  - b. Using four #8x1" (25 mm) stainless steel sheet metal screws and four #8 sealing washers provided, attach fixture to surface making sure #8 sealing washers are located between screw head and inside wall of housing.  
**NOTE:** To prevent leakage, the silicone face of washer must be placed against inside wall of housing. See **Figure 1** for mounting hole locations. See **Figure 1** for mounting hole locations.
  - c. Go to step 6.
- 5. To mount to other surface types.**
- a. 12" (305 mm) and 16" (406 mm) fixtures are U.L. listed for direct mount on any non-combustible surface such as metal, brick, concrete or concrete block. 16" (406 mm) units with ballasts for 150W and above mounted to any combustible or insulated surface (such as wood or drywall) require the use of a surface mounting box or minimum 1" (25 mm) spacers. See **Figure 2, Caution #3 And Note #7**. All other units can be direct mounted to any combustible surface.
  - b. Rotate fixture to obtain desired light distribution. In all cases, mount products so that sockets are oriented in same direction. See **Notes 2 and 3**.
  - c. Using four #8x1" (25 mm) screws appropriate for mounting surface (not provided) and four #8 sealing washers provided, attach fixture to surface making sure #8 sealing washers are located between screw head and inside wall of housing.  
**NOTE:** To prevent leakage, the silicone face of washer must be placed against inside wall of housing. See **Figure 1** for mounting hole locations.
- 6. Make electrical connections making sure fixture is properly grounded. Minimum 150°C supply wires are required for HID fixtures, minimum 75°C supply wires are required for fluorescent fixtures.**  
**NOTE: ALL WIRE NUTS MUST BE RATED FOR 150°C.**
7. Hold all connections away from ballast surfaces using wire ties.
  8. Replace reflector, insert lamp and close fixture.  
**NOTE:** For proper seating of door frame, make sure frame is level with edge of housing after tightening #8-32 lens screws.

**FIGURE 3**

