FDA / PERPENDICULAR SERIES
FLUORESCENT LUMINAIRES
Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

CAUTION Read carefully before installing and wiring the luminaire.
These instructions include information for installation in both standard and inside
marine locations. Any warning or special instructions should be closely followed.
All luminaires must be properly grounded. Must be installed in accordance with
the NEC (National Electrical Code) and all other applicable codes.

INSTALLATION & ELECTRICAL WIRING

WARNING Risk of electrical shock hazard, only qualified personnel should conduct this procedure! Do not make
electrical connections with the power ON. Refer to fixture nameplate for minimum supply wire rating.
The FDA Series fixtures are provided with one 1/2" NPT knock out thru top of housing. Installer must use proper electrical
fittings to maintain dripproof integrity. The FDA Perpendicular Type is design for 300mm Suspended Ceiling System.

1. Review page 2, dimensional and orientation information for
   proper mounting.
2. Drill (2x) mounting holes for minimum 1/4" bolts through
each suspension bracket (1A). Clean all foreign material.
3. Mount fixture to mounting joist (2A) in its intended location
   using minimum 4x, 1/4" bolts (not provided).

NOTE: This fixture is listed as "Marine Inside Type
Drip-proof", consideration should be given when selecting
cord grips to insure a drip-proof seal around the cable.
4. Remove screws (9D,2x) and washers (9E,2x). Disengage
   lens frame door (2B) from clips (2C).
5. Remove nuts (9F, 4x) and washers (9G,4x). Slide out
   reflector assembly (6A).
7. Select electrical fitting and route wires thru fitting and into
   fixture.

CAUTION See product label for voltage input and
amperage load per fixture. Use only approved electrical
type splices. Route wires away from fluorescent ballast
when feeding cables through fixture.
8. Connect wires to terminal block (4E):
   Connect L1 or hot lead to black wire terminal.
   Connect L2 or neutral to white wire terminal.
   Connect ground wire to ground screw or green wire on back of
   reflector assembly (6A).
9. Replace reflector assembly (6A) and tighten nuts (9F,4x)
   and washers (9G,4x).
10. Install lamps.
11. Engage lens frame door (2B) to clips (2C) and tighten
   screws (9D,2x) and washers (9E,2x).

<table>
<thead>
<tr>
<th>Mounting Dimensions</th>
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<tbody>
<tr>
<td>Fixture</td>
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<tr>
<td>2 Foot</td>
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<tr>
<td>4 Foot</td>
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Under NO circumstance should the internal reflector be opened or remove
during operation. Fixtures contain fluorescent ballast having extremely high
voltage output. Disconnect the fixture from the supply circuit before opening.
Keep closed when in operation. Do not attempt to install this luminaire unless
you are familiar with warnings, cautions and procedures outlined in this
information sheet.
1) Verify Ceiling Panel size (1A).

2) Vertical position between fixture mounting joist (2A) and Ceiling System Track (3B) is critical. Position fixture mounting joist (2A) at 1.12" above Ceiling System Track (3B) for fixture lens frame (4A) to be flush with Ceiling Panel surface (1A).

3) Lateral position between fixture mounting joist (2A) and Ceiling System Track Clip (3C) is critical. Note: Fixture lens frame (4A) is 46.25"(4ft) or 22.63"(2ft). The lens frame takes the spacing of 4x(4ft) or 2x(2ft) Ceiling Panel (1A). Position fixture mounting joist (2A) for lens frame (4A) to take space of 4x(4ft) or 2x(2ft) Ceiling Panel (1" gap between Ceiling Panel will repeat between lens frame and Ceiling Panel).

4) Ceiling Panel (1A) will cover opening (5A) between lens frame and fixture housing (see figure 1 and figure 2).