FR SERIES
FLUORESCENT LUMINAIRES
Installation & Maintenance Information

**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.

**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 FR Series fixtures are provided with two 1/2" and two 3/4" NPT knock out at each ends. Installer must use proper electrical fittings to maintain dripproof integrity.

1. Remove fixture from carton, remove lens frame assembly (1B) by loosening all frame screws (9B).
2. Remove the 2 nuts (9C) that hold the sliding lens frame hinge (5B) in place. Retain for later.
3. Make cut out in ceiling per dimensions below.
4. Mount fixture in ceiling cutout with #10 screws (not provided).
5. Remove the nuts (9D) that hold the internal reflector (2B) in place.

**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.

**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.

6. Connect L1 (Hot) lead to the adjacent to the black fixture wire on the terminal block (4A).
7. Connect L2 (Neutral) lead to the adjacent white fixture wire on the terminal block (4A).
8. Connect Green or earth wire ground to the green wire.
9. Tighten cord grips securely assuring a good seal around the cable(s).
10. Replace reflector (2B) with retaining nuts (9D).
11. Install lamps (Not provided) using only those types specified on product label.
12. Replace lens frame assembly (1B) sliding hinge nuts (9C) to retain the assembly.
13. Close the lens frame and secure with frame screws (9B).

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**WIRING DIAGRAM**

**LAMPHOLDERS**

**BALLAST**

**TERMINAL BLOCK**

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**Mounting Dimensions**

<table>
<thead>
<tr>
<th>Fixture Style</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Foot</td>
<td>27.75&quot;</td>
<td>10&quot;</td>
<td>26.50&quot;</td>
<td>29.12&quot;</td>
</tr>
<tr>
<td>4 Foot</td>
<td>51.75&quot;</td>
<td>20&quot;</td>
<td>50.50&quot;</td>
<td>53.12&quot;</td>
</tr>
</tbody>
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