GE LED Luminaire
(IS Series)

There are three types of fixtures: starter (ISS Series), continuous (ISC Series) and independent (IS1 series)

STOP
BEFORE YOU BEGIN
Read these instructions completely and carefully.

WARNING/AVERTISSEMENT

RISK OF ELECTRIC SHOCK
• Turn power off before inspection, installation or removal.
• Properly ground electrical enclosure.
RISK OF FIRE
• Follow all NEC and local codes.
• Use only IEC approved wire for input/output connections. Minimum size 18 AWG (0.75 mm²) or 14 AWG (2.5 mm²) for continuous runs.

RISQUES DE DÉCHARGES ÉLECTRIQUES
• Coupez l'alimentation avant d'inspecter, installer ou déplacer le luminaire.
• Assurez-vous de correctement mettre à la terre le boîtier d'alimentation électrique.
RISQUES D'INCENDIE
• Respectez tous les codes NEC et codes locaux.
• N'utilisez que des fils approuvés par IEC pour les entrées/sorties de connexion. Taille minimum 18 AWG ou 14 AWG pour les rangées continues.

Save These Instructions
Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

Tools and Components Required:
• T15 torx screwdriver

Components Supplied:
• Luminaire
• 2 Mounting Brackets
• Cable glands for 18-14 AWG (0.75-2.5 mm²) supply input cable/cord connection

Prepare Electrical Wiring

Electrical Requirements
• The LED driver must be supplied with 120-240 VAC, 50/60 Hz and connected to an individual properly grounded branch circuit, protected by a 20 ampere circuit breaker. Use min. 75°C supply conductor.

Grounding Instructions
• The grounding and bonding of the overall system shall be done in accordance with National Electric Code (NEC) Article 600 and local codes.

Important
• Maximum length of electrical run per table below

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>Lumen Code</th>
<th>Lumen Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>120V</td>
<td>50m</td>
<td>40m</td>
</tr>
<tr>
<td>230V-240V</td>
<td>95m</td>
<td>75m</td>
</tr>
</tbody>
</table>

• Please see technical data sheet for electrical properties to ensure safe installation.
• Under any circumstance, maximum driver current through connected fixtures shall not exceed 15A.
IS series luminaires come in three versions: Starter units (ISS series), continuous units (ISC series) and independent units (IS1 series). A continuous electrical run will consist of one starter unit and a number of continuous units up to a maximum current of 15A. When installing luminaires use clean gloves in order to avoid fouling the reflective surface.

**Mechanical Installation**

1. Carefully unpack unit from its packaging. Properly inspect for defects before installing. Wear work gloves to prevent dirt and oil from being transferred to the luminaire.

2. Attach mounting bracket to ceiling support structure either directly or using a GE suspension kit according to the suspension kit instructions (kit number 69075, 69076, 69077 or 94210 supplied separately). Maximum distance between suspension points shall not exceed the length of the luminaire.

3. Prepare luminaire for installation by loosening the PSU cover screws and removing the cover.

4. Clip luminaire to the previously installed mounting brackets.

5. Fix the mounting position and secure the suspension by tightening the two screws on both mounting brackets.
Electrical Connections

1. Carefully remove appropriate knockout for AC line input wires (inner knockout for 22mm conduit, outer knockout for 28mm conduit). Install supplied cable glands in the knockout holes for wire protection and pass supply conduit through the cable glands.

2. Connect the green (ground), black (line) and white (neutral) wires of the AC line to the similarly colored wires of the power supply unit using the provided terminal.

3. **Optional dimmer:** Install supplied cable glands in the knockout holes for wire protection and pass supply conduit through the cable glands. Connect dimming control wires (grey and violet for 0-10V or violet and violet/white strip for DALI) to the similarly colored fixture wire using the provided terminal.

4. Replace power supply cover by sliding over the captive screws and secure by tightening them.

### Wiring Diagrams

#### DALI

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Neutral</th>
<th>Ground</th>
<th>DALI</th>
<th>DALI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Black</td>
<td>Green</td>
<td>Violet/White</td>
<td>Violet</td>
</tr>
<tr>
<td>Neutral</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 0-10V

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Neutral</th>
<th>Ground</th>
<th>(0-10V) +</th>
<th>(0-10V) -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Black</td>
<td>Green</td>
<td>Violet</td>
<td>Grey</td>
</tr>
<tr>
<td>Neutral</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
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Mechanical Installation for Continuous Runs

Continuous runs must begin with a starter unit which is suspended at both ends. The power supply side end cap from the starter unit must be removed and used to terminate the run.

1. To add a continuous unit to a continuous run, first suspend the new unit per the instructions above. Position the non-power-supply end of the luminaire near the power-supply end of the previously hung luminaire.

2. Remove the PSU cover from the previously hung luminaire if present.

3. Continuous runs must begin with a starter unit. Remove the power supply side end cap from the starter unit and save for Step 5.
4. Pull the continuous wiring out of the luminaire being mounted and slide the bridge of the luminaire down onto the bridge of the already installed luminaire so that the tabs and slots at top and bottom nest into one another. The bridges will engage with a load click when fully mated.

5. Connect the power and control connectors of the through wiring harness.

6. To terminate a mechanical run take the end cap from the starter luminaire and clip down onto the last bridge.

7. Replace the PSU covers and secure using the mounting screws.

**Note:** When installation is complete, all lead wires and connectors shall be totally enclosed.

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### Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaires will not turn on</td>
<td>• Check that the color of the supply side wires match the color of the wires they are connected to.</td>
</tr>
<tr>
<td></td>
<td>• Check that the LED driver connector is fully engaged to the LED light engine connector.</td>
</tr>
<tr>
<td>Luminaire on through wiring will not turn on</td>
<td>• Check that the through wiring connector from the previous fixture in the linear row is fully engaged to the malfunctioning luminaire.</td>
</tr>
<tr>
<td>Luminaire to luminaire mating in continuous run is loose</td>
<td>• Ensure that both upper and lower connecting features are correctly engaged.</td>
</tr>
<tr>
<td></td>
<td>• Ensure that through wires are correctly routed in the wiring notch.</td>
</tr>
<tr>
<td>Suspension method won’t engage with luminaire</td>
<td>• Check that the suspension method is one of the approved types in the installation instruction.</td>
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