GENERAL DESCRIPTION

Neptun's Induction rectangle bulb retrofit kits are designed for replacing existing HID systems in indoor and outdoor lighting fixtures. The NIRT series kit is offered in a variety of wattages and the universal mounting position makes it an excellent choice for a variety of applications. It can replace existing HID & HPS lighting systems up to 400W.

APPLICATION

- Canopy Fixtures
- Shoebox Fixtures
- Wall Pack Fixtures
- Flood Light Fixtures
- Area Lighting Fixtures

STRUCTURE, MATERIALS, & FEATURES

- Inductively coupled rectangular induction bulb.
- High power factor, low THD electronic ballast with surge protection.
- Bulb supplied with 2 leg mounting arms.
- Teflon coated wiring protected from moisture, dust, heat, & cold.
- Instant-On flicker-free Cold Start and Hot Re-Start.
- Amalgam technology with very low mercury content. (Less than 4 mg)
- High quality glare-free light with high CRI (83).
- Bright white light (5000°K) for greater visibility and safety.
- Advance phosphors for high lumen output and high lumen maintenance.
- Up to 20 year maintenance free operation.
- 5 Year System Warranty.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Type</th>
<th>Lamp Wattage</th>
<th>System</th>
<th>Voltage</th>
<th>Color Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIRT = Rectangle Type</td>
<td>040 = 40 W</td>
<td>RK = Retrofit Kit</td>
<td>* Bulb &amp; Ballast</td>
<td>UNV = 120-277 VAC</td>
</tr>
<tr>
<td>080 = 80 W</td>
<td>347V = 347 VAC *</td>
<td></td>
<td>830 = 3000°K</td>
<td></td>
</tr>
<tr>
<td>100 = 100 W</td>
<td>480V = 480 VAC *</td>
<td>* Uses Separate Step-Down Transformer</td>
<td>841 = 4100°K</td>
<td></td>
</tr>
<tr>
<td>120 = 120 W</td>
<td></td>
<td></td>
<td>850 = 5000°K *</td>
<td></td>
</tr>
<tr>
<td>150 = 150 W</td>
<td></td>
<td></td>
<td>* Standard</td>
<td></td>
</tr>
<tr>
<td>200 = 200 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 = 250 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
INDUCTION
RECTANGULAR BULB RETROFIT KITS

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Rated Watts</th>
<th>Input Watts</th>
<th>Initial Lumens</th>
<th>Universal Line Voltage (VAC)</th>
<th>Max Line Current (Amp) @ 120 - 277</th>
<th>THD</th>
<th>Power Factor</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIRT-040RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>40</td>
<td>41</td>
<td>3,200</td>
<td>120-277</td>
<td>0.35-0.15</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>NIRT-080RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>80</td>
<td>82</td>
<td>6,400</td>
<td>120-277</td>
<td>0.69-0.30</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>NIRT-100RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>100</td>
<td>105</td>
<td>8,000</td>
<td>120-277</td>
<td>0.87-0.37</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>NIRT-120RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>120</td>
<td>125</td>
<td>9,600</td>
<td>120-277</td>
<td>1.05-0.45</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>NIRT-150RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>150</td>
<td>158</td>
<td>12,000</td>
<td>120-277</td>
<td>1.31-0.56</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>NIRT-200RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>200</td>
<td>210</td>
<td>16,000</td>
<td>120-277</td>
<td>1.75-0.75</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>5 lbs.</td>
</tr>
<tr>
<td>NIRT-250RK-UNV</td>
<td>Rectangular Retrofit Kit</td>
<td>250</td>
<td>265</td>
<td>20,000</td>
<td>120-277</td>
<td>2.18-0.94</td>
<td>&lt;10%</td>
<td>0.98</td>
<td>5 lbs.</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- Ballast Type: Electronic
- Start Method: InstantON
- Hot Re-start: InstantON
- Input Line Voltage: 120-277 VAC
- Input Line Frequency: 50/60 Hz
- Lamp Operating Frequency: 250 kHz
- Ballast Off-State Draw: 0 Watts
- Sound Rating: Class A
- ANSI Surge Protection: Class A
- Lamp / Ballast System Life: 100,000 Hrs.
- Lumen Maintenance @75,000 Hrs: > 70%
- Color Temperature: 5000°K
- Color Rendering Index (CRI): 83
- Minimum Starting Temperature: -20°F
- Maximum Starting Temperature: 160°F
- Lumens per Watt: 80
- Shock / Vibration Resistant: Yes
- Power Factor: > 0.98
- Total Harmonic Distortion: < 10%
- Inrush Current Peak: < 10 Amp
- ETL Listed / UL Standard 1598: Yes
- FCC Compliance: Part 18, Subp. C

BALLAST DIMENSIONS

RECOMMENDED APPLICATION FIXTURES

* Contact Factory for Application Verification.