Born for Industrial Safety

Warrior™ (NJZ-FEL-D Series)
Hazardous Location LED Luminaire
The Warrior NJZ-FEL-D Series LED Luminaire is designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambient can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC. NJZ-FEL-D Series is ideal for retrofit of existing HPS/MH and offers higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

**Features**

- High luminous efficacy-Up to 150 Lm/W  
- Input Voltage: AC120-277V, AC347-480V (50/60Hz)  
- Instant illumination and restrike-no warm-up time required  
- Safe and reliable heat transfer-Offering a T-rating of T4A (CID2) / T5 (CIID1)  
- Shock and vibration resistant-Durable LEDs with solderless board connection  
- Die-cast aluminum body and frame-corrosion resistant  
- All exposed fasteners with quality stainless steel  
- High Temperature silicone gasketing  
- Thermal shock and impact resistant tempered glass  
- Light weight and compact design

**Compliance**

- NEC/CEC Standard
- UL844  
- Class I Division 2, Group A, B, C, D  
- Class II Division 1, Group E, F, G  
- Class II Division 2, Group F, G  
- Class III, Division 1  
- Simutaneous Presence  
- UL 1598A Marine Outside Type  
- UL 1598 Wet Locations  
- UL 8750 LED Safety  
- CSA C22.2 No. 250.0-08, 250.13  
- FCC / IP66 / IK08 / IK07 (Drop Lens)  
- 5G / 1000hrs salt spray

**Application**

- Power Plants / Heavy Industrials  
- Storage Facility / Paper mills  
- Wastewater Treatment Plants  
- Loading Docks / Platforms / Shipyards  
- Chemical Processing Facility  
- Petrochemical Processing Facility

**Warranty**

- 5-Year Standard Warranty  
- LED lumen Maintenance: L70 > 150,000 Operation Hours @55°C
Hazardous Location LED Luminaire

Product Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Net weight</th>
<th>Dimensions (L×W×H)</th>
<th>Gross weight</th>
<th>Dimensions (L×W×H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJZ-FEL-D-45</td>
<td>4.2kg/9.26lbs</td>
<td>Φ260×150 mm 10.2×5.9in</td>
<td>4.9kg/10.8lbs</td>
<td>340×310×205 mm 13.4×12.2×8.1in</td>
</tr>
<tr>
<td>NJZ-FEL-D-65</td>
<td>4.9kg/10.8lbs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multi-mount Top

- Pendant Top
- Multi-mount Top
- Ceiling Mount
- Bracket
- Stanchion 25°
- Stanchion 90°
- Wall 25°
- Wall 90°
- Drop Lens
- With glare shield installed-25°
- With glare shield installed-90°
**Technical Parameter**

### Electrical

<table>
<thead>
<tr>
<th>Specification</th>
<th>NJZ-FEL-D-45</th>
<th>NJZ-FEL-D-65</th>
<th>NJZ-FEL-D-40</th>
<th>NJZ-FEL-D-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power</td>
<td>45W</td>
<td>65W</td>
<td>40W</td>
<td>60W</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>AC120-277V</td>
<td>AC347-480V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Frequency</td>
<td></td>
<td></td>
<td>50/60Hz</td>
<td></td>
</tr>
<tr>
<td>Power Factor</td>
<td></td>
<td></td>
<td>≥0.95</td>
<td></td>
</tr>
<tr>
<td>Driver Efficiency</td>
<td></td>
<td></td>
<td>≥90%</td>
<td></td>
</tr>
<tr>
<td>Input Current</td>
<td>(AC100-277V)</td>
<td>0.35/0.15A</td>
<td>0.54/0.24A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(AC347-480V)</td>
<td>0.14/0.08A</td>
<td>0.13/0.09A</td>
<td></td>
</tr>
</tbody>
</table>

### Optical

<table>
<thead>
<tr>
<th>Specification</th>
<th>NJZ-FEL-D-45</th>
<th>NJZ-FEL-D-65</th>
<th>NJZ-FEL-D-40</th>
<th>NJZ-FEL-D-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumen Output</td>
<td></td>
<td>6750Lm-9750Lm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lumens Per Watt</td>
<td></td>
<td>150Lm/W (130Lm/W for Drop lens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beam Angle</td>
<td></td>
<td>110° (130° for Drop lens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correlated Color Temp. (CCT)</td>
<td></td>
<td>3000K/4000K/5000K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color Rendering Index (CRI)</td>
<td></td>
<td>Ra&gt;70</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Specification</th>
<th>NJZ-FEL-D-45</th>
<th>NJZ-FEL-D-65</th>
<th>NJZ-FEL-D-40</th>
<th>NJZ-FEL-D-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Operating Temp.</td>
<td>-40°C ~ +55°C/-40°F~+131°F</td>
<td>-40°C ~ +52°C/-40°F~+126°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-code</td>
<td>C1D2</td>
<td>T4A</td>
<td>T4A</td>
<td>T5</td>
</tr>
<tr>
<td></td>
<td>C2D1</td>
<td></td>
<td>T5</td>
<td></td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Specification</th>
<th>NJZ-FEL-D-45</th>
<th>NJZ-FEL-D-65</th>
<th>NJZ-FEL-D-40</th>
<th>NJZ-FEL-D-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Copper-free Aluminum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lens Material</td>
<td>Tempered glass</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Options</td>
<td>Ceiling, Wall, Pole, Bracket, Pendant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IK Rating</td>
<td>IK08*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Flat glass lens only
### Hazardous Location LED Luminaire

**Ordering Information and Mounting Accessories**

<table>
<thead>
<tr>
<th>WATTAGE</th>
<th>VOLTAGE</th>
<th>COLOR TEMP</th>
<th>BEAM ANGLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>45W &amp; 65W</td>
<td>100-240/277 Vac</td>
<td>RN: 3000K (Warm White)</td>
<td>110°( Flat Glass)</td>
</tr>
<tr>
<td>40W &amp; 60W</td>
<td>347-480 Vac</td>
<td>RL: 4000K (Neutral White)</td>
<td>130° (Glass Globe)</td>
</tr>
</tbody>
</table>

**HAZLOC**

- 25=CID2, CIID1

**COLOR OF ENCLOSURE**

- GR = "gray" (Standard)
- BL = "black"
- WT = "white"
- BZ = "bronze"

**LENSES**

- T = Transparent glass
- D = Diffuse flat glass
- DL01 = Drop lens globe

**ACCESSORIES**

- JB01 = Junction Box NPT 3/4"
- PB01 = U-Bracket (SUS 304)
- WL25 = Wall mount-25°
- WL90 = Wall mount-90°
- SN2501 = Stanchion-25°(NPT 1.25°)
- SN2502 = Stanchion-25°(NPT 1.50°)
- SN9001 = Stanchion-90°(NPT 1.25°)
- SN9002 = Stanchion-90°(NPT 1.50°)
- WG02 = Stainless Steel Wire guard for Flat Lens
- WG03 = Stainless Steel Wire guard for Drop Lens
- SC03 = Stainless Steel Safety Cable kit
- CA01 = 3' SJTOW-18/3 Cord (Factory installed)
- CA-X = Cable, order upon request
- DL01 = Drop Lens
- LS03 = Glare Shield -25°
- LS04 = Glare Shield -90°
- SP01 = 10kv Surge Protector 100~277V
- SP02 = 10kv Surge Protector 347~480V

**MOUNT TYPE**

- P = NPT 3/4" pendant mount
- U = Bracket
- F = Multi-mount (Ceiling/Stanchion/Wall)

---

*Not all product variations listed on this page are DLC qualified.*

Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.
**Warrior**

**Hazardous Location LED Luminaire**

**JB01**
- Ceiling Junction Box NPT 3/4"
- Grey Painted A356 Aluminum AL

**PB01**
- Wall/Pipe U-Bracket (SUS 304)
- Stainless steel bracket

**WL25**
- Wall mount-25°
- NPT 3/4" Grey Painted A356 Aluminum AL

**WL90**
- Wall mount-90°
- NPT 3/4" Grey Painted A356 Aluminum AL

**SN2501**
- Stanchion-25°,
  - NPT 1.25"(1.660"Pole OD)
  - slip-fit stanchion mount

**SN2502**
- Stanchion-25°,
  - NPT 1.50"(1.900"Pole OD)
  - slip-fit stanchion mount

**SN9001**
- Stanchion-90°,
  - NPT 1.25"(1.660"Pole OD)
  - slip-fit stanchion mount

**SN9002**
- Stanchion-90°,
  - NPT 1.50"(1.900"Pole OD)
  - slip-fit stanchion mount

**WG02**
- Stainless Steel Wire guard

**WG03**
- Stainless Steel Wire guard

**SC03**
- Stainless Steel Safety Cable kit

**CA01**
- 3’ SJTOW-18/3 Cord (Factory installed)

**DL01**
- Drop Lens Tempered Glass

**LS03**
- Glare Shield-25° Aluminium alloy

**LS04**
- Glare Shield-90° Aluminium alloy

**SP01/SP02**
- 10KV Surge Protector
Class I Locations
Class I locations are those in which inflammable gases or vapors are or may be present in sufficient quantities to produce explosive or flammable mixtures.

CLASS I, DIVISION 1
Class I, Division 1 locations are where hazardous atmosphere may be present during normal operations. It may be present continuously, intermittently, periodically or during normal repair or maintenance operations, or those areas where a breakdown in processing equipment releases hazardous vapors with the simultaneous failure of electrical equipment.

CLASS I, DIVISION 2
Class I, Division 2 locations are those in which volatile flammable liquids or gases are handled, processed or used. Normally they will be confined within closed containers or in closed systems from which they can escape only in the case of rupture or deterioration of the containers or systems.

Class II Locations
Class II locations are those that are hazardous because of the presence of combustible dust.

CLASS II, DIVISION 1
Class II, Division 1 locations include areas where combustible dust may be in suspension in the air under normal conditions in sufficient quantities to produce explosive or ignitable mixtures (Dust may be emitted into the air continuously, intermittently or periodically), or where failure or malfunction of equipment might cause a hazardous location to exist and provide an ignition source with the simultaneous failure of electrical equipment, included also are locations in which combustible dust of an electrically conductive nature may be present.

CLASS II, DIVISION 2
Class II, Division 2 locations are those in which combustible dust will not normally be in suspension nor will normal operations put dust in suspension, but where accumulation of dust may interfere with heat dissipation from electrical equipment or where accumulations near electrical equipment may be ignited.

Class III Locations
Class III locations are those considered hazardous due to the presence of easily ignitable fibers of flyings, which are in quantities sufficient to produce ignitable mixtures.

CLASS III, DIVISION 1
Locations in which easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

CLASS III, DIVISION 2
Locations where easily ignitable fibers are stored or handled.