Ex-Solutions™ Lighting
Hazardous location products and accessories

Product catalog
You can rely on Ex-Solutions™ to safely provide light where you need it, even under the harshest indoor and outdoor conditions. If safety, labor reduction, quality and reliability are your priorities, consider Ex-Solutions™ lighting products to reduce maintenance and prevent downtime.
## Quick finder

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<td>Linear lighting</td>
<td>LED</td>
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</tr>
</tbody>
</table>
Choosing the right partner
For your hazardous location lighting project

When you’re looking for hazardous location lighting, you need an experienced partner you can trust. Someone who will accompany you every step of the way and provide expert advice and exceptional service. The ABB sales team has been doing just that for close to a century.

Engineering expertise at your fingertips
Our product engineers are readily available to answer all your technical questions, and partner with you in selecting the best lighting solution to reach your goals.

High standards of quality control
Quality is built into every product at every step of the process, from design to final assembly. Each product is inspected and tested to ensure that it meets our strict quality standards, and then professionally packed so that your order will arrive intact at your installation site.

Product customization
We design and manufacture all units under one roof, giving us unparalleled capabilities to customize lighting fixtures to meet your specific needs.

Reduced lead time
We produce what you need when you need it in our state-of-the-art North American Center of Excellence. We can easily accommodate both large and small production runs with a fast turnaround – no waiting for shipments from overseas.

—

A sustainable development policy is in effect at the ABB production facility to reduce our carbon footprint and minimize the environmental impact of our operations. Through a series of initiatives, reductions in water usage, water bottles, electricity and natural gas, packaging and pallets have already been realized.
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<td>TYPE 1, TYPE 2, TYPE 3, CUT</td>
<td>TYPE 1, TYPE 2, TYPE 3, CUT</td>
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<td><strong>IP/NEMA</strong></td>
<td>NEMA 3X3</td>
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<td><strong>DLC</strong></td>
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<td><strong>Certification</strong></td>
<td>UL Listed, cUL Listed</td>
<td>US UL Listed, NSF Listed, UL Listed, CE Marked, cUL Listed, CE Marked, cUL Listed</td>
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<td><strong>Wattage</strong></td>
<td>37-138W</td>
<td>50-400W</td>
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<tr>
<td></td>
<td>107-310W</td>
<td>26-57W</td>
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<tr>
<td><strong>Lumen</strong></td>
<td>5,600-20,000lm</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>12,000-32,000lm</td>
<td>3,000-6,300lm</td>
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<tr>
<td><strong>Voltage ac</strong></td>
<td>120-277VAC, 50/60Hz, 347-480VAC, 50/60Hz</td>
<td>120-277VAC, 50/60Hz, 347-480VAC, 50/60Hz</td>
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<td>XFL8 LED</td>
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<td>XLN13 LED</td>
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<tr>
<td>XLN12 LED</td>
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<td>GENERAL</td>
<td>GENERAL</td>
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<tr>
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|                |               |
| C1 D1 C2 D2 C3 | C1 D1 C2 D2 C3 |
| C1 D1 C2 D2 C3 | C1 D1 C2 D2 C3 |
| C1 D1 C2 D2 C3 | C1 D1 C2 D2 C3 |

|                |               |
| Wet/damp       |               |
| location       |               |

|                |               |
| UL LISTED      | UL LISTED     |
| UL LISTED      | UL LISTED     |
| UL LISTED      | UL LISTED     |

|                |               |
| Wet/damp       |               |
| location       |               |

|                |               |
| NEMA:          | NEMA:         |
|               |               |

|                |               |
| 29-87W         | 50-105W       |
| 29-58W         |               |
| 36-109W        |               |
| 12-41W         |               |

|                |               |
| 2,800-10,000lm |               |
| 2,800-6,600lm  |               |
| 4,000-10,000lm |               |
| 580-2,300lm    |               |

|                |               |
| 120-277VAC, 50/60Hz | 120-277VAC, 50/60Hz |
| 347-480VAC, 50/60Hz | 347-480VAC, 50/60Hz |
| 120-277VAC, 50/60Hz | 120-277VAC, 50/60Hz |
| 12V or 24V DC   | 347-480VAC, 60Hz |

|                |               |
| 0-10V dimming  |               |
|                |               |
## Product matrix

### Emergency lighting

<table>
<thead>
<tr>
<th></th>
<th>XEB LED</th>
<th>XEC LED</th>
<th>XES LED</th>
<th>XER LED</th>
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</thead>
<tbody>
<tr>
<td><strong>Classification</strong></td>
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<td>![C1 D2]</td>
<td>![C1 D2]</td>
<td>![C1 D2]</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Self-Powered Remote capacity</td>
<td>Self-Powered Remote capacity</td>
<td>AC/DC Self-Powered</td>
<td>DC AC/DC</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Advanced Diagnostic Nexus® Time Delay</td>
<td>Advanced Diagnostic Nexus® Time Delay</td>
<td>Advanced Diagnostic Nexus®</td>
<td>-</td>
</tr>
<tr>
<td><strong>Spacing</strong></td>
<td>34'-89'</td>
<td>34'-89'</td>
<td>N/A</td>
<td>34'-89'</td>
</tr>
<tr>
<td><strong>Wattage</strong></td>
<td>18W-72W</td>
<td>20W and 24W</td>
<td>1.5-2.5 W</td>
<td>4-6W</td>
</tr>
<tr>
<td><strong>Lumen</strong></td>
<td>200-540lm</td>
<td>200-540lm</td>
<td>N/A</td>
<td>200-540lm</td>
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<tr>
<td><strong>Voltage ac</strong></td>
<td>120/277VAC</td>
<td>120/277VAC</td>
<td>120-277VAC</td>
<td>DC: 6V/12V/24V/120VDC - 120VAC</td>
</tr>
</tbody>
</table>
**Environment selection method**

The right fixture in the right place

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01
Select a fixture that meets your Class, Division and Group requirements.
For example: Class I, Division 2, Group D

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02
Determine the T-number for your selected fixture.
Be sure it is for the specific wattage, ballast housing, optical assembly and ambient temperature.
Use the published information in this catalog or contact your ABB Ex-Solutions™ sales representative.

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03
Determine the maximum allowable temperature for the hazardous materials.

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04
Compare T-number (from step 2) to maximum allowable temperature (from step 3).
- If T-number is cooler than the maximum allowable temperature, the selected fixture is suitable.
- If T-number is hotter than the maximum allowable temperature, the selected fixture is not suitable.

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**T-number table**

<table>
<thead>
<tr>
<th>Class I, II, Div. 1, 2 T-number</th>
<th>Max. temperature °C</th>
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<tbody>
<tr>
<td>T1</td>
<td>450</td>
</tr>
<tr>
<td>T2</td>
<td>300</td>
</tr>
<tr>
<td>T2A</td>
<td>280</td>
</tr>
<tr>
<td>T2B</td>
<td>260</td>
</tr>
<tr>
<td>T2C</td>
<td>230</td>
</tr>
<tr>
<td>T2D</td>
<td>215</td>
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<tr>
<td>T3</td>
<td>200</td>
</tr>
<tr>
<td>T3A</td>
<td>180</td>
</tr>
<tr>
<td>T3B</td>
<td>165</td>
</tr>
<tr>
<td>T3C</td>
<td>160</td>
</tr>
<tr>
<td>T4</td>
<td>135</td>
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<td>T4A</td>
<td>120</td>
</tr>
<tr>
<td>T5</td>
<td>100</td>
</tr>
<tr>
<td>T6</td>
<td>85</td>
</tr>
</tbody>
</table>

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Class I Gas
- Ignition temperature for the specific gas (from NFPA497M)

Class II Dust
- Group E: 200 °C
- Group F: 200 °C
- Group G: 165 °C
- Or ignition temperature of dust if lower
- Above from NEC table 500-3(F)
ABB Ex-Solutions™ applications
We have a fixture for virtually any condition

ABB Ex-Solutions™ lighting fixtures are built to withstand the harsh environmental conditions that exist in real settings.

### Examples of hazardous locations
- Chemical manufacturing and processing plants
- Oil refineries
- Oil drilling rigs
- Offshore platforms
- Pipeline pumping stations
- Pulp and paper plants
- Aluminum and copper smelting
- Steel mills and foundries
- Mining operations
- Grain handling facilities
- Flour, sugar and starch processing
- Food processing plants
- Paint and rubber manufacturing facilities
- Power generation plants
- Waste treatment facilities
- Paint, chemical and plastic mixing/storage areas
- Bulk truck terminals
- Solvent/cleaning areas

### 01 Hose-down and wet locations
- Certified for wet locations – NEMA 4X, IP66 (indoor and outdoor); CSA and cULus Listed
- Superior gasketing system – both tank and globe gasketing systems withstand hose-down pressures
- Uninterrupted globe thread – assures positive seal
- Baked-on, dry epoxy coating – not paint but 100% dry solids
- Globes, refractors and finish designed to withstand thermal shock during hose down

### 02 High-ambient temperature areas
- All standard fixtures are tested and listed for at least 40 °C ambient – even under heavy dust blanket and no air flow
- Exclusive heat sink design results in a cool operating fixture, extended ballast/lamp life and lower maintenance costs
- Unmatched selection of high-ambient temperature rated fixtures – contact your ABB representative for fixtures certified for 55 °C applications
- Steam spray and thermal shock resistant

### 03 Corrosion and abrasion
- Baked-on, dry epoxy coating – not paint but 100% dry solids
- Stainless steel external hardware
- Sand-blast resistant finish
- Superior silicone gasketing system on both tank and globe (other gasketing systems available for special corrosive applications such as phosphates)
- Aluminum components contain less than 0.4% copper for maximum corrosion resistance
- Special HazCote® corrosion fighter finish available for extremely corrosive areas; consult your ABB representative for details
ABB Ex-Solutions™ fixture applications

04 Ice and arctic conditions
- Gasketing system and finish allow for expansion and contraction through wide temperature variations
- Metal halide ballasts start at -29 °C; high-pressure sodium ballasts start as low as -51 °C; consult your ABB representative for details
- High-strength mechanical mountings withstand extra ice loading
- Tempered glassware available for extra thermal shock safety margin

05 Vibration and vandalism
- Vibration tested by UL and CSA
- Vibration-resistant hardware throughout fixture
- Screw retainers on guard ensure retention even if screws are not completely tightened
- Vibration-resistant globe thread and sealing system
- Optional refractors, high-strength tempered glass and Teflon®-coated globes for protection from vandalism

06 Dust blanket
- Tested and listed by UL and CSA
- Thermal performance is at 40 °C ambient; optional thermal performance to 55 °C ambient available (consult your ABB representative)
- Cone pendant mount available (45° sloped sides) for areas where dust or other residue buildup is a problem
- Exclusive heat sink design – results in a cool operating fixture, extended ballast/lamp life and lower maintenance costs

07 Wind
- Wind-tunnel tested at McDonnell Douglas Corporation at air flow speeds in excess of 320 km/h (198 mph)
- Guard specially designed to secure reflector during high wind loading
- All fasteners are stainless steel
- High-strength mechanical mountings withstand strong wind loads

Teflon is a registered trademark of The Chemours Company FC, LLC.
Applications selector

A wide range of products and features are available to suit the needs of specific hazardous locations. Consider the requirements of each space to select the best lighting fixtures:

- Average footcandles
- Average mounting height
- Lumen output required for the space
- Optics
- Type and number of units

The following examples provide guidance for selecting the right fixtures according to different environments:

**XSL3 LED**

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<td></td>
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<td><strong>Product</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Part number</strong></td>
</tr>
<tr>
<td><strong>Quantity</strong></td>
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</table>

**MACHINERY ROOM**

| Site | Room dimensions | 200ft x 65ft |
|------|-----------------|
| Mounting height | 25' |
| **Photometric** | AVG. Footcandle | 30fc |
| | Reflectances | 40-50-20 |
| **Product** | Lumen output | 32,000 lumens |
| | Wattage | 312W |
| | Optics | CUT – Wide beam (no optics) |
| **Part number** | XSL1130-CUT-W-50-AC |
| **Quantity** | Number of fixtures | 16 |
### Applications selector

#### XSL3 LED

<table>
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<th>INSPECTION AREA</th>
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<td><strong>Site</strong></td>
<td>Room dimensions 30ft x 20ft</td>
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<tr>
<td></td>
<td>Mounting height 16'</td>
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<tr>
<td><strong>Photometric</strong></td>
<td>AVG. Footcandle 108fc</td>
</tr>
<tr>
<td></td>
<td>Reflectances 80-80-20</td>
</tr>
<tr>
<td><strong>Product</strong></td>
<td>Lumen output 20,000 lumens</td>
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<tr>
<td></td>
<td>Wattage 138W</td>
</tr>
<tr>
<td></td>
<td>Optics TG – Thermal shock-resistant globe</td>
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<td>Part number XSL320UNTG</td>
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**Quantity** Number of fixtures 5

#### XSL11 LED

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<th>INSPECTION AREA</th>
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<td>Room dimensions 30ft x 20ft</td>
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<td>Mounting height 16'</td>
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<td><strong>Photometric</strong></td>
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<tr>
<td><strong>Product</strong></td>
<td>Lumen output 32,000 lumens</td>
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<tr>
<td></td>
<td>Wattage 312W</td>
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<tr>
<td></td>
<td>Optics CUT – Wide beam</td>
</tr>
<tr>
<td></td>
<td>(no optics)</td>
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<td>Part number XSL1130-CUT-W-50-AC</td>
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**Quantity** Number of fixtures 3
We deliver highly versatile high and low bay solutions to a wide range of industries, with the protection and safety of human life being paramount.
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High and low bay products

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<td>XSL11 LED Series</td>
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<td>040–043</td>
<td>XSL10 LED Series</td>
</tr>
</tbody>
</table>
XSL3
LED Series

A safe, dependable and rugged luminaire with an exclusive design that maximizes heat dissipation and offers excellent performance.

**Certifications and Ratings**

- **CLASSIFICATION**
  - **CLASS I**
  - Division 2: Groups A, B, C, D
  - Zone 2: Groups IIIC, IIB, IIA
  - **CLASS II**
  - Division 1*: Groups E, F, G*
  - Division 2: Groups F, G
  - **CLASS III**

*Contact your ABB sales representative to verify classification

**Applications**

- High mast
- Parking lots
- Tunnels
- Swimming pools
- High bay
- Coolers and freezers
- Agricultural
- Chemical/Industrial facilities

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**Not all XSL3 series are DLC qualified. For all qualified products, please visit: www.designlights.org/cpl**

**Life expectancy:** 50,000 to 100,000 hours

- **Baked epoxy powder finishes and stainless steel exposed hardware for corrosion resistance**

- **Dimming control**

- **0–10 V DC standard**

- **Light output from 5,600 up to 20,100 lumens**

- **LED uses 75% less energy than HID, and 90% less energy than incandescent**

- **Field-replaceable driver**

- **Maximizes heat dissipation for higher T-ratings, extended life in extreme ambient temperatures and extra safety**

- **Hinged design for hands-free wiring**
XSL3 LED Series
Key features and benefits

**Hinged design for hands-free wiring**
Easy tank access allows ABB lighting fixtures to be maintained quickly and safely. The hinged lid is designed to support the weight of the tank, leaving both the installer’s hands free.

**Robust construction**
Cast copper-free aluminum construction offers corrosion resistance in a strong and durable fixture. Baked epoxy powder finishes and stainless steel exposed hardware provide additional corrosion resistance.

**Field-replaceable driver**
The driver is designed in its own compartment so it can be easily replaced in the field.

**Impressive life expectancy**
Life expectancy of 50,000 to 100,000 hours.

**Color temperature**
Standard color temperature is 5000 K. Other color temperatures available.

**Color rendering index**
Superior CRI (70).

**Certifications**
Easily identifiable nameplate displays third-party certification for all electrical and hazardous location ratings as required by the National Electrical Code, Canadian Electrical Code and OSHA regulations to provide peace of mind, confirming that the correct lighting fixture with the required certifications is in place.

**Versatile optics include internal reflector options for light distribution**
The XSL3 LED Series fixture is available with a thermal-resistant globe and a variety of internal reflectors with 35°, 45° and 65° beam angles.

**6 kV combi-wave surge rating**
ANSI C82.77-5 CAT C low compliant – no external surge suppression device required.

### Combi-wave surge rating

<table>
<thead>
<tr>
<th>ANSI surge type</th>
<th>Differential mode (L-N)</th>
<th>Common mode (L-G, N-G, L and N-G)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2/50 µs combination wave (w/t 2 Ω)</td>
<td>6 kV</td>
<td>6 kV</td>
</tr>
</tbody>
</table>

### High efficacy luminaire

<table>
<thead>
<tr>
<th>Model</th>
<th>AC power (W)</th>
<th>Lumens</th>
<th>Lm/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL3005</td>
<td>37</td>
<td>5,600</td>
<td>151</td>
</tr>
<tr>
<td>XSL3007</td>
<td>48</td>
<td>7,500</td>
<td>156</td>
</tr>
<tr>
<td>XSL3010</td>
<td>74</td>
<td>10,500</td>
<td>142</td>
</tr>
<tr>
<td>XSL3015</td>
<td>103</td>
<td>15,800</td>
<td>153</td>
</tr>
<tr>
<td>XSL3017</td>
<td>115</td>
<td>17,300</td>
<td>150</td>
</tr>
<tr>
<td>XSL3020</td>
<td>138</td>
<td>20,100</td>
<td>146</td>
</tr>
</tbody>
</table>

### Improved temperature codes

With an exclusive design that maximizes heat dissipation, ABB LED fixtures’ lower internal temperature allows for higher T-rating and extended LED and driver life in extreme ambient temperatures. With the entire luminaire acting as a heat sink, ABB LED fixtures allow for better performance.

### Temperature codes

<table>
<thead>
<tr>
<th>Glass globe XSL3005, XSL3007, XSL3010</th>
<th>Class I Zone 2 Groups A, B, C</th>
<th>Class I Division 2 Groups IIC, IIB, IIA</th>
<th>Class II Groups D, E, F, G</th>
<th>Simultaneous Class I Division 2 and Class II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temp. 40°C</td>
<td>T5</td>
<td>T5</td>
<td>T6</td>
<td>T5</td>
</tr>
<tr>
<td>Ambient temp. 55°C</td>
<td>T4</td>
<td>T4A</td>
<td>T6</td>
<td>T4A</td>
</tr>
<tr>
<td>Glass globe XSL3005, XSL3007, XSL3010 with internal reflector I3, I4, I6</td>
<td>T4</td>
<td>T4A</td>
<td>T6</td>
<td>T4A</td>
</tr>
<tr>
<td>Ambient temp. 40°C</td>
<td>T4</td>
<td>T4A</td>
<td>T6</td>
<td>T4A</td>
</tr>
<tr>
<td>Glass globe XSL3015, XSL3017, XSL3020</td>
<td>T4</td>
<td>T4A</td>
<td>T6</td>
<td>T4A</td>
</tr>
<tr>
<td>Ambienct temp. 40°C</td>
<td>T4</td>
<td>T4A</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td>Ambient temp. 55°C</td>
<td>T4</td>
<td>T4A</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td>Optic type cut XSL3005, XSL3007, XSL3010</td>
<td>T4</td>
<td>T4A</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td>Ambient temp. 40°C</td>
<td>T4</td>
<td>T4A</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td>Ambient temp. 55°C</td>
<td>T4</td>
<td>T4A</td>
<td>T4A</td>
<td>T4A</td>
</tr>
</tbody>
</table>

*Cut reflector: Class II, Division 2, Groups F, G
XSL3 LED Series

Fixture assembly guide

1. Mounting options
   - Cone-top pendant
   - Ceiling and pendant mount
   - Wall mount
   - Rigid pendant

2. LED driver tank

3. Globe or reflector
   - Heat-resistant globe
   - Refractor globe R1
   - Refractor globe R3
   - Refractor globe R5
   - CUT
   - CBDL

4. Guard (n/a for CUT)
   - Cast guard
   - Polymeric guard
**XSL3 LED Series**

**Numbering system**

Unipak™ = LED driver tank + optics and mountings + options (if necessary)

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XSL3</td>
<td>Standard light 3 series</td>
</tr>
<tr>
<td>2 Lumens output (max. AC power)</td>
<td>05</td>
<td>5,600 lumens; 37 W</td>
</tr>
<tr>
<td></td>
<td>07</td>
<td>7,500 lumens; 48 W</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>10,500 lumens; 74 W</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>15,800 lumens; 103 W</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17,300 lumens; 115 W</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>20,100 lumens; 138 W</td>
</tr>
<tr>
<td>3 Input voltage / frequency</td>
<td>UN</td>
<td>120-277Vac, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>UN2</td>
<td>347-480 Vac, 50/60 Hz</td>
</tr>
<tr>
<td>4 Housing style</td>
<td>Blank</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>With stainless steel insert</td>
</tr>
</tbody>
</table>

**LED driver tank**

**Part** | **Part number** | **Description** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XSL3</td>
<td>Standard light 3 series</td>
</tr>
<tr>
<td>2 Lumens output (max. AC power)</td>
<td>05</td>
<td>5,600 lumens; 37 W</td>
</tr>
<tr>
<td></td>
<td>07</td>
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</tr>
<tr>
<td></td>
<td>10</td>
<td>10,500 lumens; 74 W</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>15,800 lumens; 103 W</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17,300 lumens; 115 W</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>20,100 lumens; 138 W</td>
</tr>
<tr>
<td>3 Input voltage / frequency</td>
<td>UN</td>
<td>120-277Vac, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>UN2</td>
<td>347-480 Vac, 50/60 Hz</td>
</tr>
<tr>
<td>4 Housing style</td>
<td>Blank</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>With stainless steel insert</td>
</tr>
</tbody>
</table>

**Optics**

**Part** | **Part number** | **Description** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Glass coating</td>
<td>S</td>
<td>Teflon coating¹</td>
</tr>
<tr>
<td>6 Globe type</td>
<td>TG</td>
<td>Thermal shock resistant globe</td>
</tr>
<tr>
<td></td>
<td>R1</td>
<td>Glass refractor, Type I</td>
</tr>
<tr>
<td></td>
<td>R3</td>
<td>Glass refractor, Type III</td>
</tr>
<tr>
<td></td>
<td>R5</td>
<td>Glass refractor, Type V</td>
</tr>
<tr>
<td></td>
<td>CBDL</td>
<td>Low-bay refractor polycarbonate²</td>
</tr>
<tr>
<td></td>
<td>CUT</td>
<td>Cut-off reflector, polycarbonate lens²</td>
</tr>
<tr>
<td>7 Guard option (glass globe only)</td>
<td>Blank</td>
<td>No guard</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Cast guard</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>Polymeric guard</td>
</tr>
</tbody>
</table>

¹ For Teflon coating, add prefix “S” before the first digit (Ex: SR1) Not applicable to CUT.
² CUT optics: 3000K < CCT. Cannot be used with 25° stanchion mount.

**Mounting**

**Part** | **Part number** | **Description** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Mounting style</td>
<td>Blank</td>
<td>No mounting</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>1/4&quot; Cone top pendant</td>
</tr>
<tr>
<td></td>
<td>A3</td>
<td>1&quot; Cone top pendant</td>
</tr>
<tr>
<td></td>
<td>B2</td>
<td>1/4&quot; Wall mount</td>
</tr>
<tr>
<td></td>
<td>B3</td>
<td>1&quot; Wall mount</td>
</tr>
<tr>
<td></td>
<td>C2</td>
<td>1/4&quot; Ceiling and pendant mount</td>
</tr>
<tr>
<td></td>
<td>C3</td>
<td>1&quot; Ceiling and pendant mount</td>
</tr>
<tr>
<td></td>
<td>HV3</td>
<td>Hazvertor™ Crouse-Hinds® straight stanchion³</td>
</tr>
<tr>
<td></td>
<td>HV4</td>
<td>Hazvertor™ Crouse-Hinds® angle stanchion³</td>
</tr>
<tr>
<td></td>
<td>HV5</td>
<td>Hazvertor™ Crouse-Hinds® wall mount³</td>
</tr>
<tr>
<td></td>
<td>L4</td>
<td>11/4&quot; Straight stanchion³</td>
</tr>
<tr>
<td></td>
<td>L5</td>
<td>11/4&quot; Straight stanchion³</td>
</tr>
<tr>
<td></td>
<td>P2</td>
<td>11/2&quot; Rigid pendant</td>
</tr>
<tr>
<td></td>
<td>P3</td>
<td>1&quot; Rigid pendant</td>
</tr>
<tr>
<td></td>
<td>S4</td>
<td>11/4&quot; 25° Angle stanchion</td>
</tr>
<tr>
<td></td>
<td>S5</td>
<td>11/2&quot; 25° Angle stanchion</td>
</tr>
</tbody>
</table>

¹ Not suitable for CUT or CBDL globe type
² cCSAus certification
³ Not suitable for Class II, Division 1

**Options**

**Part** | **Part number** | **Description** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9 Special finish option</td>
<td>Blank</td>
<td>Standard ivory</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>Hazcote® custom corrosion coating</td>
</tr>
<tr>
<td>10 Special light distribution</td>
<td>Blank</td>
<td>Standard no reflector</td>
</tr>
<tr>
<td></td>
<td>I3</td>
<td>Internal reflector 35° beam angle⁴</td>
</tr>
<tr>
<td></td>
<td>I4</td>
<td>Internal reflector 40° beam angle⁴</td>
</tr>
<tr>
<td></td>
<td>I6</td>
<td>Internal reflector 60° beam angle⁴</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>Special Kelvin color temperature</td>
</tr>
</tbody>
</table>

¹ XSL305, XSL307 and XSL310 only, 40°C (104 °F) maximum operating temperature

**Certification**

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Blank</td>
<td>U.S market</td>
</tr>
</tbody>
</table>

¹ Not suitable for CUT or CBDL globe type
### XSL3

Individual components

#### Mounting options

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Conduit hub size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA2</td>
<td>Cone-top pendant</td>
<td>¾</td>
</tr>
<tr>
<td>VA3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>VC2</td>
<td>Ceiling and pendant mount</td>
<td>¾</td>
</tr>
<tr>
<td>VC3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>VB2-VIB</td>
<td>Wall mount</td>
<td>¾</td>
</tr>
<tr>
<td>VB3-VIB</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>P2</td>
<td>Rigid pendant</td>
<td>¾</td>
</tr>
<tr>
<td>P3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>VS4-VIB</td>
<td>25° Angle stanchion</td>
<td>1¼</td>
</tr>
<tr>
<td>VS5-VIB</td>
<td></td>
<td>1½</td>
</tr>
<tr>
<td>VL4-VIB</td>
<td>Straight stanchion</td>
<td>1½</td>
</tr>
<tr>
<td>VL5-VIB</td>
<td></td>
<td>1¾</td>
</tr>
</tbody>
</table>

**HV3**

Hazvertor™ adapter ring
- Ceiling, pendant¹ and straight stanchion top hats (APM2, APM3, CM2, CM3, PM5, and QM25)²

**HV4**

Hazvertor™ adapter ring
- Stanchion angle mount (JM5 style)²

**HV5**

Hazvertor™ adapter ring
- Wall mount (TWM2 and TWM3 styles)²

¹ For stainless steel inserts, please add ‘SI’ to part no. (ex: VA2SI)
² HV3, HV4 and HV5 Hazvertors are CSA/CSAus certified and intended for use with Crouse-Hinds® top hats indicated. They are not compatible with HPM2 top hats.

Crouse-Hinds® is a registered trademark of Cooper Technologies Company.

#### Globes or refractors

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGT15</td>
<td>Heat-Resistant Prismatic Glass Globe</td>
</tr>
<tr>
<td>VGL15R1</td>
<td>IES Type I Refractor Globe</td>
</tr>
<tr>
<td>VGL15R3</td>
<td>IES Type III Refractor Globe</td>
</tr>
<tr>
<td>VGL15R5</td>
<td>IES Type V Refractor Globe</td>
</tr>
<tr>
<td>CUT</td>
<td>Dark Sky Cut-Off Reflector with Polycarbonate Flat Lens</td>
</tr>
</tbody>
</table>

#### Guards

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGU22</td>
<td>Cast Guard</td>
</tr>
<tr>
<td>VGU22P</td>
<td>Polymeric Guard</td>
</tr>
</tbody>
</table>

#### Reflectors

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR15P</td>
<td>Standard dome, fiberglass-reinforced polyester</td>
</tr>
<tr>
<td>VRA15P</td>
<td>30° Angle reflector, fiberglass-reinforced polyester</td>
</tr>
</tbody>
</table>

Reflector are shipped bulk unless specified.

#### LED drivers

<table>
<thead>
<tr>
<th>Part number</th>
<th>Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL305</td>
<td>183.0024-005</td>
</tr>
<tr>
<td>XSL307</td>
<td>183.0024-007</td>
</tr>
<tr>
<td>XSL310</td>
<td>183.0024-010</td>
</tr>
<tr>
<td>XSL315</td>
<td>183.0026-015</td>
</tr>
<tr>
<td>XSL317</td>
<td>183.0026-017</td>
</tr>
<tr>
<td>XSL320</td>
<td>183.0026-020</td>
</tr>
</tbody>
</table>
XSL3 LED Series
Dimensions – Housing with mounting top, globe and guard

Cone-top pendant

Ceiling and pendant mount

Rigid pendant mount

Wall mount

25° Angle stanchion

Straight stanchion

---

Design Lights Consortium (DLC): summary of test results

<table>
<thead>
<tr>
<th>Model</th>
<th>Power (W)</th>
<th>Power factor</th>
<th>THD</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL3005</td>
<td>37.7</td>
<td>0.91</td>
<td>13.5%</td>
</tr>
<tr>
<td>XSL3007</td>
<td>49.4</td>
<td>0.94</td>
<td>13.3%</td>
</tr>
<tr>
<td>XSL3010</td>
<td>71.9</td>
<td>0.97</td>
<td>10.1%</td>
</tr>
<tr>
<td>XSL3015</td>
<td>103.0</td>
<td>0.97</td>
<td>11.0%</td>
</tr>
<tr>
<td>XSL3017</td>
<td>115</td>
<td>0.97</td>
<td>11.8%</td>
</tr>
<tr>
<td>XSL3020</td>
<td>137</td>
<td>0.97</td>
<td>12.3%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Electrical, 120-277 VAC</th>
<th>Photometry, 120-277 VAC</th>
<th>Photometry, 120-277 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL3005</td>
<td>Power (W) Power factor</td>
<td>TG globe Lumens</td>
<td>Lm/W</td>
</tr>
<tr>
<td>XSL3007</td>
<td>47.9</td>
<td>0.99</td>
<td>10.2%</td>
</tr>
<tr>
<td>XSL3010</td>
<td>70.2</td>
<td>0.99</td>
<td>7.1%</td>
</tr>
<tr>
<td>XSL3015</td>
<td>104.9</td>
<td>0.99</td>
<td>7.6%</td>
</tr>
<tr>
<td>XSL3017</td>
<td>116.7</td>
<td>0.99</td>
<td>7.1%</td>
</tr>
<tr>
<td>XSL3020</td>
<td>137</td>
<td>0.97</td>
<td>12.3%</td>
</tr>
</tbody>
</table>

Summary of test results: Certified for optics TG globe and CUT reflector, and for AC input 120 V, 277 V and 347 V
Hazvertor™ compatibility

The HazVertor™ adaptor ring is designed to quickly convert most Crouse-Hinds fixtures to XSL3 LED Series.

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Crouse-Hinds model</th>
<th>Crouse-Hinds part number</th>
<th>HazVertor™ model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendant</td>
<td>APM2 3/4 in.</td>
<td>APM2</td>
<td>HV3</td>
</tr>
<tr>
<td></td>
<td>APM3 1 in.</td>
<td>APM3</td>
<td>HV3</td>
</tr>
<tr>
<td>Ceiling</td>
<td>CM2 3/4 in.</td>
<td>CM2</td>
<td>HV3</td>
</tr>
<tr>
<td></td>
<td>CM3 1 in.</td>
<td>CM3</td>
<td>HV3</td>
</tr>
<tr>
<td>Wall</td>
<td>TWM2 3/4 in.</td>
<td>TWM2</td>
<td>HV5</td>
</tr>
<tr>
<td></td>
<td>TWM3 1 in.</td>
<td>TWM3</td>
<td>HV5</td>
</tr>
<tr>
<td>Stanchion</td>
<td>JM5 1-1/2 in.</td>
<td>JM5</td>
<td>HV4</td>
</tr>
<tr>
<td></td>
<td>PM5 1-1/2 in.</td>
<td>PM5</td>
<td>HV3</td>
</tr>
<tr>
<td>Quad mount</td>
<td>QM25 3/4 in.</td>
<td>QM25</td>
<td>HV3</td>
</tr>
</tbody>
</table>
Refractor types

**Type I**
The type I distribution is great for lighting walkways, paths and sidewalks. This type of lighting is meant to be placed near the center of the pathway. This provides adequate lighting for smaller pathways.

Type I is a two-way lateral distribution having a preferred lateral width of 15 degrees in the cone of maximum candlepower. The two principal light concentrations are in opposite directions along a roadway. This type is generally applicable to a luminaire location near the center of a roadway where the mounting height is approximately equal to the roadway width.

**Type II**
The type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. This type is meant for lighting larger areas and usually is located near the roadside. You’ll find this type of lighting mostly on smaller side streets or jogging paths.

Type II light distributions have a preferred lateral width of 25 degrees. They are generally applicable to luminaires located at or near the side of relatively narrow roadways, where the width of the roadway does not exceed 1.75 times the designed mounting height.

**Type III**
The type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. Type III lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.

**Type IV**
The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It’s best for illuminating the perimeter of parking areas and businesses. The intensity of the type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

Type IV light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.

**Type V**
Type V produces a circular distribution that has the same intensity at all angles. This distribution has a circular symmetry of candlepower that is essentially the same at all lateral angles. It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

**Type VS**
Type VS produces a square distribution that has the same intensity at all angles. Type 5S (square) LED Distribution pattern. This distribution has a square symmetry of candlepower that is essentially the same at all lateral angles. It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary. Type VS is used where the light pattern needs a more defined edge.
XSL3 LED Series
Optic selections

**Standard globe**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Luminaire lumens</th>
<th>Luminaire efficacy rating (LER)</th>
<th>Input watts</th>
<th>Spacing criterion</th>
<th>Spacing criterion (90–270)</th>
<th>Spacing criterion (diagonal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL3005EUN0-TGC2</td>
<td>5,764</td>
<td>156</td>
<td>37.01</td>
<td>0.88</td>
<td>0.88</td>
<td>1.52</td>
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<tr>
<td>XSL3010EUN0-TGC2</td>
<td>10,739</td>
<td>148</td>
<td>72.44</td>
<td>0.82</td>
<td>0.82</td>
<td>1.46</td>
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<tr>
<td>XSL3015EUN0-TGC2</td>
<td>16,110</td>
<td>155</td>
<td>103.66</td>
<td>1.32</td>
<td>1.32</td>
<td>1.58</td>
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</table>

**CUT reflector**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Luminaire lumens</th>
<th>Luminaire efficacy rating (LER)</th>
<th>Input watts</th>
<th>Spacing criterion</th>
<th>Spacing criterion (90–270)</th>
<th>Spacing criterion (diagonal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL3020EUN0-CUTC2</td>
<td>20,530</td>
<td>148</td>
<td>139.02</td>
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<tr>
<td>XSL3010EUN0-CUTC2</td>
<td>9,846</td>
<td>136</td>
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<td>1.22</td>
<td>1.38</td>
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<tr>
<td>XSL3020EUN0-CUTC2</td>
<td>18,841</td>
<td>136</td>
<td>138.8</td>
<td>1.30</td>
<td>1.30</td>
<td>1.42</td>
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### Standard globe

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL3010-R5</th>
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<tr>
<td>Luminaire lumens</td>
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<td>Luminaire efficacy rating (LER)</td>
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<tr>
<td>Input watts</td>
<td>87.48</td>
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### CUT reflector

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL3020-R5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire lumens</td>
<td>17,004</td>
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<td>Luminaire efficacy rating (LER)</td>
<td>102</td>
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<tr>
<td>Input watts</td>
<td>166.3</td>
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### Standard globe

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL3010-R3</th>
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<tbody>
<tr>
<td>Luminaire lumens</td>
<td>8649</td>
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<td>Luminaire efficacy rating (LER)</td>
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<td>Input watts</td>
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### CUT reflector

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL3020-R3</th>
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</thead>
<tbody>
<tr>
<td>Luminaire lumens</td>
<td>17,343</td>
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<td>Luminaire efficacy rating (LER)</td>
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<td>Input watts</td>
<td>166.37</td>
</tr>
</tbody>
</table>

---

**Bug Rating:** B2-U4-G3

**Candlepower Curve:**

**Bug Rating:** B2-U5-G5

**Candlepower Curve:**
Quick pole assembly
Key features and benefits

Features and benefits
• Sphere-shaped, quick knuckle features round edges, preventing injuries and contaminant build-up on components
• The quick-release mechanism is activated using one hand and one pull pin
• The quick pole assembly blocks at a 90° angle when the pull pin reaches the stopper
• All quick knuckle hardware is made of stainless steel

Quick pole assembly
• Operates in any kind of weather
• Overall length is 10’ (3 m)
• Pole trade size is 1½” threaded NPT
• Aluminum pole trade size is 2” threaded NPT
• Top pole section is 70” (1.78 m) long
• Lower pole section is 50” (1.27 m) long
• Set screws secure top and bottom section into the quick knuckle

Quick knuckle assembly
• Rotates 180° (90° left and right) around knuckle’s center axis, allowing freedom of installation and easy adjustment
• Easy one-man operation – after center bolt is loosened, use the pull pin to lock and unlock the assembly
• Pre-fished with tape to ease wiring

Brackets
• Universal mounting for 2” to 3” angle iron railings

Contact your sales representative.

Safety first
One-person operation
No ladders or lifts required
Simplified maintenance
Hot dipped galvanized steel and aluminum finishes
Frees up catwalks and walkways during maintenance
Epoxy-coated finishes available
Suitable for 113 mph winds as per AASHTO LTS-4 2001
Maximum fixture weight capacity of 50 lbs.
Steel pole threads are treated and protected to prevent galvanic reaction as per AASHTO LTS-4 2001

Standard kit
• Overall height of 10’ (3 m)
• 1½” NPT threads at both ends (1¼” O.D. pipe)
• Rotating quick knuckle assembly
• Installed with two rail angle iron mounting brackets, allowing the pole section to rotate before final positioning

Q-P-S-10-N (Galvanized 1¼” O.D. pipe)
Q-P-A-S-10-N (Aluminum 2¼” O.D. pipe)

Standard Kit
Bracket sold separately

Retrofit kit
• Overall maximum and predetermined height of 10’ (3 m) once assembled
• Can be adapted to existing pole
• Upgrades existing assembly with quick and easy maintenance features
• See instruction sheets provided with product for installation details
• Rotating quick knuckle assembly
• Steel and aluminum adaptor sleeve (2” ID) fits over standard 1½” NPT (1.66” OD) or 3½” NPT (1.90” OD) pipe

RQ-P-S-10-N (Galvanized 1¼” O.D. pipe)
RQ-P-A-S-10-N (Aluminum 2¼” O.D. pipe)

Retrofit Kit
Customer existing pipe (not supplied)
Quick pole assembly
Universal bracket kit

STAINLESS STEEL (ALUMINIUM POLE)

**AMB-QP-A-BKT-N**
Bracket for structural angle mounting

**RMB-QP-A-BKT-N**
Bracket for structural pole mounting

**RMB-QP-A-BKT-3**
Bracket for structural square mounting

GALVANISED STEEL

**AMB-QP-BKT-N**
Bracket for structural angle mounting

**RMB-QP-BKT-N**
Bracket for structural pole mounting

**RMB-QP-BKT-3**
Bracket for structural square mounting

**Universal bracket kit**
- Quick bolt-on installation, no welding or drilling
- Can be attached to angle iron guardrails up to 3”
- Supplied to be installed on tubular structures 2” O.D. or less but designed for up to 2-3/8” U-Bolt in both positions
- Allows the pole sections to rotate before final positioning
XSL5
HID Series

Your go-to versatile explosion-proof lighting fixture, ideal for use in marine and wet locations, and a variety of hazardous areas.

UL® Listed for Class I, Division 1 for safe, explosion-proof application in a variety of hazardous areas

Die-cast aluminum guards are epoxy powder coated for corrosion resistance

Polymeric reflectors are available in standard dome and 30° angle versions

High pressure sodium lamps from 50 W to 400 W

Thermal shock-resistant glass globes are factory assembled and pre-tested to ensure the highest quality and safety

Five mounting styles provide versatility for installation

CERTIFICATIONS

Outdoor wet locations
Temperature range: -30 °C to 40 °C

UL® Listed
UL844 UL1598A

CLASSIFICATIONS

CLASS I
Division 1 Groups C, D
Division 2 Groups A, B, C, D
Zone 1 Groups IIC, IIB, IIA

CLASS II
Division 1 Groups E, F, G
Division 2 Groups E, F, G

Classification may vary upon light source and wattage. For details, see thermal performance chart on p. 30-31.

Applications

Chemical plants
Oil refineries
Waste treatment facilities
Automotive manufacturing plants
Paint manufacturing facilities
Paint spray locations
Chemical & plastic mixing and storage areas
Pipeline pumping stations
Oil and gas terminals
Defense and government facilities
### XSL5

**Key features and benefits**

**Features**
- UL® Listed for Class I, Division 1 for safe, explosion-proof application in a variety of hazardous areas
- Factory-sealed assembly meets code requirements without the need for external sealing fittings
- Dual-pitch Acme threads make assembly easy and faster than designs with standard V-cut threads, greatly reducing the risk of cross threading
- Factory-wired connection block means ballast is pre-wired to lower half of electrical connection block, allowing wireless connection of ballast housing to mounting module
- Five mounting styles – pendant, ceiling, wall, angle stanchion and bulkhead – provide versatility for installation
- Thermal shock-resistant glass globes are factory assembled and pre-tested to ensure the highest quality and safety
- Die-cast aluminum guards are epoxy powder coated for corrosion resistance and have keyhole slots for easy attachment to stainless steel screws
- High-pressure sodium in wattages from 50 to 400 watts
- Polymeric reflectors are available in standard dome and 30° angle versions
- UL paint spray listed in wattages up to 100 watts

**Applications**
- Chemical plants
- Oil refineries
- Waste treatment facilities
- Automotive manufacturing plants
- Paint manufacturing facilities
- Paint spray locations
- Chemical and plastic mixing and storage areas
- Pipeline pumping stations
- Oil and gas terminals
- Defense and government facilities

**Wattages and voltages**
- High-pressure sodium: 50–400 watts
- All luminaires: multi-tap standard (120, 208, 240, 277 V), wired 120 V (other voltages, frequencies available)

**Materials and finishes**
- Ballast housing: copper-free aluminum, powder finish
- Mounting modules: copper-free aluminum, powder finish
- Hardware: stainless steel
- Globes: tempered glass
- Guard: copper-free aluminum, powder finish
- Reflectors: fiberglass-reinforced

---

### Ceiling mount photometry

**Reference data**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL5SO10H04G-C2-E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp</td>
<td>100W HPS ED23 1/2</td>
</tr>
<tr>
<td>Lamp lumens</td>
<td>9500</td>
</tr>
<tr>
<td>Input watts</td>
<td>130</td>
</tr>
<tr>
<td>Luminaire lumens</td>
<td>7162</td>
</tr>
<tr>
<td>Efficiency</td>
<td>75%</td>
</tr>
<tr>
<td>Efficacy rating (LER)</td>
<td>55.1</td>
</tr>
<tr>
<td>Spacing criterion (0–180)</td>
<td>2.66</td>
</tr>
<tr>
<td>Spacing criterion (90–270)</td>
<td>2.66</td>
</tr>
<tr>
<td>Spacing criterion (diagonal)</td>
<td>2.74</td>
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</tbody>
</table>

**Candlepower curve**

---

**Reference data**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>XSL5SO10H04G-C2-E + VR31P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp</td>
<td>100W HPS ED23 1/2</td>
</tr>
<tr>
<td>Lamp lumens</td>
<td>9500</td>
</tr>
<tr>
<td>Input watts</td>
<td>130</td>
</tr>
<tr>
<td>Luminaire lumens</td>
<td>6254</td>
</tr>
<tr>
<td>Efficiency</td>
<td>66%</td>
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<tr>
<td>Efficacy rating (LER)</td>
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<td>Spacing criterion (0–180)</td>
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<td>Spacing criterion (90–270)</td>
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<td>Spacing criterion (diagonal)</td>
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</table>

**Candlepower curve**
XSL5
Fixture assembly guide

1
Mounting style

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Conduit hub size</th>
</tr>
</thead>
<tbody>
<tr>
<td>XP2</td>
<td>Pendant mount</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>XP3</td>
<td>Pendant mount</td>
<td>1&quot;</td>
</tr>
<tr>
<td>XS4</td>
<td>Stanchion mount</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>XS5</td>
<td>Stanchion mount</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>XC2</td>
<td>Ceiling mount</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>XC3</td>
<td>Ceiling mount</td>
<td>1&quot;</td>
</tr>
<tr>
<td>XB2</td>
<td>Wall mount</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>XB3</td>
<td>Wall mount</td>
<td>1&quot;</td>
</tr>
<tr>
<td>XJ2</td>
<td>Bulkead mount</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>XJ3</td>
<td>Bulkead mount</td>
<td>1&quot;</td>
</tr>
</tbody>
</table>

2
Globe assemblies

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XGSA44</td>
<td>XSL5 replacement globe assembly – up to 150 HPS</td>
</tr>
<tr>
<td>XGSA44A</td>
<td>XSL5 replacement globe assembly – 250 HPS &amp; 400 HPS</td>
</tr>
</tbody>
</table>

1 For stainless steel inserts, please add “SI” to part no. (ex: XGSA44SI)

3
Guards

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XGU44</td>
<td>Cast aluminum guard</td>
</tr>
<tr>
<td>VGU31†</td>
<td>Cast aluminum guard</td>
</tr>
</tbody>
</table>

† Used on all 400-watt fixtures and 250-watt HPS fixtures

4
Optional reflectors (sold separately)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR31P</td>
<td>Standard dome, fiberglass-reinforced polyester</td>
</tr>
<tr>
<td>VRA31P</td>
<td>30° Angle reflector, fiberglass-reinforced polyester</td>
</tr>
</tbody>
</table>

Reflectors are shipped bulk unless specified.

Individual components
### XSL5

**Numbering system**

Unipak™ = Ballast tank + optics and mountings + options (if necessary)

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic series</td>
<td>XSL5 fixture</td>
</tr>
<tr>
<td>2</td>
<td>Lamp type</td>
<td>S: High-pressure sodium</td>
</tr>
<tr>
<td>3</td>
<td>Option</td>
<td>Ø: Standard no option; Q: Quartz lamp (300 W maximum) (Class I, Div. 2 only); R: HPS fixture provided with instant restart starter as opposed to conventional ignitor</td>
</tr>
<tr>
<td>4</td>
<td>Lamp wattage</td>
<td>05: 50 W HPS S68; 07: 70 W HPS; 10: 100 W HPS; 15: 150 W HPS; 25: 250 W HPS; 40: 400 W HPS</td>
</tr>
<tr>
<td>5</td>
<td>Ballast type</td>
<td>C: Constant wattage autotransformer; H: High power factor</td>
</tr>
<tr>
<td>6</td>
<td>Ballast voltage</td>
<td>04: 120/208/240/277 V at 60 Hz; 12: 120 V at 60 Hz; 20: 208 V at 60 Hz; 24: 240 V at 60 Hz; 27: 277 Volt, 60 Hz; 34: 347 V at 60 Hz; 48: 480 V at 60 Hz</td>
</tr>
<tr>
<td>7</td>
<td>Guard</td>
<td>G: Cast globe guard</td>
</tr>
<tr>
<td>8</td>
<td>Fixture mounting</td>
<td>P2: 1/2 Pendant; C3: 1' Ceiling; B4: 11/4 Wall; J5: 11/2 Bulkhead; S: Stanchion</td>
</tr>
<tr>
<td>9</td>
<td>Unipak</td>
<td>D: Unipak with diffused lamp; E: Unipak with clear lamp; U: Unipak no lamp</td>
</tr>
<tr>
<td>10</td>
<td>Special options</td>
<td>PS: Paint spray label (100W max); TS: Silicon coated tempered glass globe</td>
</tr>
</tbody>
</table>
XSL5
Dimensions

Bulkhead mount with globe, guard and reflector

Stanchion mount with globe, guard and reflector

Pendant mount with globe and guard

Wall mount with globe and guard

Ceiling mount with globe and guard

Template for bulkhead for wall mount
**XSL5**

**Dimensions**

**Pendant mount with globe, guard and reflector**

- **Ceiling mount with globe, guard and reflector**

- **Stanchion mount with globe, guard and reflector**

- **Wall mount with globe, guard and reflector**

- **Bulkhead mount with globe and guard**

- **Pendant mount with globe and guard**
### XSL5

Thermal performance data

---

**Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 40˚C | ambient in free air**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>50 W (S68 lamp)</th>
<th>70 W (S62 lamp)</th>
<th>100 W (S54 lamp)</th>
<th>150 W (S55 or S56 lamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lamp</td>
<td>Lamp w/</td>
<td>Lamp</td>
<td>Lamp w/</td>
</tr>
<tr>
<td></td>
<td></td>
<td>auxiliary qtz.</td>
<td></td>
<td>auxiliary qtz.</td>
</tr>
<tr>
<td>Globe and guard</td>
<td>A T6 T4</td>
<td>T6 T4A</td>
<td>T5 T4</td>
<td>T4 T4A</td>
</tr>
<tr>
<td>Globe, guard and dome reflector</td>
<td>B T6 T4</td>
<td>T6 T4A</td>
<td>T5 T4</td>
<td>T4 T3C</td>
</tr>
<tr>
<td>Globe, guard and angle reflector</td>
<td>C T6 T4</td>
<td>T6 T4A</td>
<td>T5 T3C</td>
<td>T4 T3C</td>
</tr>
</tbody>
</table>

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**Class II & III*, Division 1 & 2 – Maximum external fixture temperature in °C at 40˚C | ambient in free air**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>50 W (S68 lamp)</th>
<th>70 W (S62 lamp)</th>
<th>100 W (S54 lamp)</th>
<th>150 W (S55 or S56 lamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lamp</td>
<td>Lamp w/</td>
<td>Lamp</td>
<td>Lamp w/</td>
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<tr>
<td></td>
<td></td>
<td>auxiliary qtz.</td>
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<tr>
<td></td>
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<td>groups</td>
</tr>
<tr>
<td>Globe and guard</td>
<td>A EFG</td>
<td>EFG</td>
<td>EFG</td>
<td>EFG</td>
</tr>
<tr>
<td>Globe, guard and dome reflector</td>
<td>B EFG</td>
<td>EFG</td>
<td>EFG</td>
<td>EFG</td>
</tr>
<tr>
<td>Globe, guard and angle reflector</td>
<td>C EFG</td>
<td>EFG</td>
<td>EFG</td>
<td>EFG</td>
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</tbody>
</table>

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**Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 55˚C | ambient in free air**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>50 W (S68 lamp)</th>
<th>70 W (S62 lamp)</th>
<th>100 W (S54 lamp)</th>
<th>150 W (S55 or S56 lamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lamp</td>
<td>Lamp w/</td>
<td>Lamp</td>
<td>Lamp w/</td>
</tr>
<tr>
<td></td>
<td></td>
<td>auxiliary qtz.</td>
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<td>auxiliary qtz.</td>
</tr>
<tr>
<td></td>
<td>T no.</td>
<td>T no.</td>
<td>T no</td>
<td>T no</td>
</tr>
<tr>
<td>Globe and guard</td>
<td>A T6 T4</td>
<td>T5 T4</td>
<td>T5 T4A</td>
<td>– T4A</td>
</tr>
<tr>
<td>Globe, guard and dome reflector</td>
<td>B T6 T4</td>
<td>T5 T4</td>
<td>T5 T4A</td>
<td>– T4A</td>
</tr>
<tr>
<td>Globe, guard and angle reflector</td>
<td>C T6 T4</td>
<td>T5 T4</td>
<td>T5 T4A</td>
<td>– T4A</td>
</tr>
</tbody>
</table>
XSL5

Thermal performance data

Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 65°C | ambient in free air

High pressure sodium / nameplate marked with rating based on hottest fixture congestion

<table>
<thead>
<tr>
<th>Configuration</th>
<th>50 W (S68 lamp)</th>
<th>70 W (S62 lamp)</th>
<th>100 W (S54 lamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lamp w/ auxiliary qtz.</td>
<td>Lamp w/ auxiliary qtz.</td>
<td>Lamp w/ auxiliary qtz.</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Globe and guard</td>
<td>A</td>
<td>T5</td>
<td>T4A</td>
</tr>
<tr>
<td>Globe, guard and dome reflector</td>
<td>B</td>
<td>T5</td>
<td>T4A</td>
</tr>
<tr>
<td>Globe, guard and angle reflector</td>
<td>C</td>
<td>T5</td>
<td>T4A</td>
</tr>
</tbody>
</table>

Thermal data

This data includes globe, guard and reflector

<table>
<thead>
<tr>
<th>Lamp type</th>
<th>Ambient temperature (°C)</th>
<th>Groups</th>
<th>Class I Temp. code</th>
<th>Supply wire suitable temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 Watt HPS type S50</td>
<td>40</td>
<td>C, D</td>
<td>T4A</td>
<td>85</td>
</tr>
<tr>
<td>400 Watt HPS type S51</td>
<td>40</td>
<td>C, D</td>
<td>T4A</td>
<td>85</td>
</tr>
</tbody>
</table>
XSL11
LED Series

These multi-functional and feature-rich fixtures are capable of both meeting and exceeding the demands of the food processing industry, industrial and commercial environments and architectural applications.

100% field serviceable

Life expectancy up to 100,000 hours

0-10 V Dimming 10%-100%

NSF certified for use in splash and non-food zones

Certified for use in marine locations

Thermally managed for maximum longevity

Available with multiple distribution patterns

Vented enclosure ensures long-term reliability

### Classification

<table>
<thead>
<tr>
<th>CLASS</th>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 2</td>
<td>Groups A, B, C, D</td>
<td>Group IIC</td>
<td>Group IIIB</td>
</tr>
<tr>
<td>Zone 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone 22</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>High mast</td>
</tr>
<tr>
<td>Parking lots</td>
</tr>
<tr>
<td>Tunnels</td>
</tr>
<tr>
<td>Loading docks</td>
</tr>
<tr>
<td>Coolers and freezers</td>
</tr>
<tr>
<td>High bay</td>
</tr>
<tr>
<td>Food processing</td>
</tr>
<tr>
<td>Chemical/industrial facilities</td>
</tr>
<tr>
<td>Oil and gas processing</td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification

**CERTIFICATIONS**

Not all XSL11 series are DLC qualified. For all qualified products, please visit: www.designlights.com.

UL844
UL1598A
UL8750
IP66/67

MARINE
LISTED
E76933

NSF

LEADING
LISTED
E76933

ABB EX-SOLUTIONS™ HAZARDOUS LOCATION LIGHTING PRODUCTS AND ACCESSORIES
**XSL11 LED**

Key features and benefits

**Housing**
- Copper-free high-pressure die-cast aluminum
- Lens and case are designed to withstand severe impact
- Gore® vented pressure equalization

**Finish**
- Polyurethane multi-layer powder coating with anti-graffiti properties suitable for interior and exterior surfaces
- Easy cleaning and very smooth to prevent particulate from accumulating
- Resistant to impact, humidity and high chlorine environments
- Superior surface bonding to prevent dripping

**Thermal management**
- Surface area ensures LEDs are kept running at maximum efficiency in temperatures up to 55 °C
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperatures

**Power supplies**
- Two independent power supplies for increased reliability
- Two input power ranges for flexibility
- Built-in temperature control adjusts power output in case of extreme ambient temperatures in order to maintain illumination while protecting the luminaire
- High performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation (LM-80)
- Built-in junction box with ¾” NPT entry for electrical termination within sealed cavity

**CREE LEDs**
- Proven reliability and high efficiency
- Superior CRI (90+)

---

**Electrical ratings**

<table>
<thead>
<tr>
<th>Luminance</th>
<th>Input voltage</th>
<th>Rated wattage (watts)</th>
<th>Rated voltage (volts)</th>
<th>Frequency (Hz)</th>
<th>Rated current (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110</td>
<td>AC</td>
<td>107</td>
<td>120–277</td>
<td>50/60</td>
<td>1.11–0.48</td>
</tr>
<tr>
<td>XSL1110</td>
<td>HV</td>
<td>129</td>
<td>347–480</td>
<td>50/60</td>
<td>0.43–0.31</td>
</tr>
<tr>
<td>XSL1115</td>
<td>AC</td>
<td>145</td>
<td>120–277</td>
<td>50/60</td>
<td>1.42–0.61</td>
</tr>
<tr>
<td>XSL1115</td>
<td>HV</td>
<td>145</td>
<td>347–480</td>
<td>50/60</td>
<td>0.47–0.34</td>
</tr>
<tr>
<td>XSL1120</td>
<td>AC</td>
<td>190</td>
<td>120–277</td>
<td>50/60</td>
<td>1.74–0.75</td>
</tr>
<tr>
<td>XSL1120</td>
<td>HV</td>
<td>187</td>
<td>347–480</td>
<td>50/60</td>
<td>0.59–0.42</td>
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<tr>
<td>XSL1125</td>
<td>AC</td>
<td>247</td>
<td>120–277</td>
<td>50/60</td>
<td>2.18–0.95</td>
</tr>
<tr>
<td>XSL1125</td>
<td>HV</td>
<td>248</td>
<td>347–480</td>
<td>50/60</td>
<td>0.74–0.53</td>
</tr>
<tr>
<td>XSL1130</td>
<td>AC</td>
<td>312</td>
<td>120–277</td>
<td>50/60</td>
<td>2.82–1.22</td>
</tr>
<tr>
<td>XSL1130</td>
<td>HV</td>
<td>310</td>
<td>347–480</td>
<td>50/60</td>
<td>0.96–0.70</td>
</tr>
</tbody>
</table>
XSL11 LED

Key features and benefits

Temperature code chart

<table>
<thead>
<tr>
<th>Luminance</th>
<th>Input voltage</th>
<th>Ambient temp (°C)</th>
<th>Class I, Div 2 T-Codes</th>
<th>Ambient temp (°C)</th>
<th>Class I, Div 2 T-Codes</th>
<th>Class II, Div 2 T-Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110 AC</td>
<td>-40 to 55</td>
<td>T3C</td>
<td>-40 to 55</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1110 HV</td>
<td>-40 to 54</td>
<td>T3C</td>
<td>-40 to 51</td>
<td>T4</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1115 AC</td>
<td>-40 to 55</td>
<td>T3C</td>
<td>-40 to 55</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1115 HV</td>
<td>-40 to 54</td>
<td>T3C</td>
<td>-40 to 51</td>
<td>T4</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1120 AC</td>
<td>-40 to 55</td>
<td>T3C</td>
<td>-40 to 55</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1120 HV</td>
<td>-40 to 54</td>
<td>T3C</td>
<td>-40 to 51</td>
<td>T4</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1125 AC</td>
<td>-40 to 51</td>
<td>T3C</td>
<td>-40 to 55</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1125 HV</td>
<td>-40 to 44</td>
<td>T3B</td>
<td>-40 to 50</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1130 AC</td>
<td>-40 to 43</td>
<td>T3</td>
<td>-40 to 42</td>
<td>T4A</td>
<td>T5</td>
<td></td>
</tr>
<tr>
<td>XSL1130 HV</td>
<td>-40 to 43</td>
<td>T3</td>
<td>-40 to 40</td>
<td>T3</td>
<td>T5</td>
<td></td>
</tr>
</tbody>
</table>

Color temperature
Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K. Contact your sales representative for more information.

Dimming
Driver will source a maximum of 200 μA for control needs. A controller must sink current from 0–10 V control leads.
### XSL11 LED

**Key features and benefits**

#### Modular optics (20 options)

<table>
<thead>
<tr>
<th>R2 – IESNA Type 2</th>
<th>Lumens/watts</th>
<th>Model</th>
<th>Lumens</th>
<th>watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110</td>
<td>12370</td>
<td>132</td>
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</tr>
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<td>XSL1115</td>
<td>16340</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1120</td>
<td>20560</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1125</td>
<td>26090</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1130</td>
<td>31670</td>
<td>109</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OC – Oval</th>
<th>Lumens/watts</th>
<th>Model</th>
<th>Lumens</th>
<th>watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110</td>
<td>12370</td>
<td>132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1115</td>
<td>16340</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1120</td>
<td>20560</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1125</td>
<td>26090</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1130</td>
<td>31670</td>
<td>109</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SC – Narrow 18°</th>
<th>Lumens/watts</th>
<th>Model</th>
<th>Lumens</th>
<th>watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110</td>
<td>12370</td>
<td>132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1115</td>
<td>16340</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1120</td>
<td>20560</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1125</td>
<td>26090</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1130</td>
<td>31670</td>
<td>109</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CUT – Wide beam</th>
<th>Lumens/watts</th>
<th>Model</th>
<th>Lumens</th>
<th>watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1110</td>
<td>12370</td>
<td>132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1115</td>
<td>16340</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1120</td>
<td>20560</td>
<td>125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1125</td>
<td>26090</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSL1130</td>
<td>31670</td>
<td>109</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard offering above, 13 alternate optical profiles available upon request.
Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.
XSL11 LED
Mounting options

- **Surface/suspended mount (included standard)**
  - 16.8 kg | 37 lbs

- **Wall mount XSL11-WM (optional accessory)**
  - 17.7 kg | 39 lbs

- **Yoke mount XSL11-YM (optional accessory)**
  - 16.8 kg | 37 lbs

- **Pole mount XSL11-PM (optional accessory)**
  - 17.3 kg | 38 lbs

- **Hanging pendant XSL11-HK (optional accessory)**
  - 16.4 kg | 36 lbs

- **Conduit mount XSL11-CM (optional accessory)**
  - 16.4 kg | 36 lbs
## XSL11 LED Numbering system

### Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XSL1110</td>
<td>12260 to 12370 lumens</td>
</tr>
<tr>
<td></td>
<td>XSL1115</td>
<td>16200 to 16490 lumens</td>
</tr>
<tr>
<td></td>
<td>XSL1120</td>
<td>20730 to 23800 lumens</td>
</tr>
<tr>
<td></td>
<td>XSL1125</td>
<td>25860 to 26610 lumens</td>
</tr>
<tr>
<td></td>
<td>XSL1130</td>
<td>31400 to 31670 lumens</td>
</tr>
<tr>
<td>2 Optics</td>
<td>CUT</td>
<td>Wide beam (no optics)</td>
</tr>
<tr>
<td></td>
<td>R2</td>
<td>IESNA Type 2</td>
</tr>
<tr>
<td></td>
<td>OC</td>
<td>Oval, 26° x 108°</td>
</tr>
<tr>
<td></td>
<td>SC</td>
<td>Spot 18°</td>
</tr>
<tr>
<td>3 Finish</td>
<td>W</td>
<td>White</td>
</tr>
<tr>
<td>4 Color</td>
<td>35</td>
<td>Warm white (3500 K)</td>
</tr>
<tr>
<td></td>
<td>35H</td>
<td>Warm white, high CRI (3500 K)</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>Cool white (5000 K)</td>
</tr>
<tr>
<td></td>
<td>50H</td>
<td>Cool white, high CRI (5000 K)</td>
</tr>
<tr>
<td>5 Power</td>
<td>AC</td>
<td>120 - 277 V AC</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>347 - 480 V AC</td>
</tr>
<tr>
<td>6 Location</td>
<td>HL</td>
<td>Hazardous location</td>
</tr>
<tr>
<td>7 Market</td>
<td>Blank</td>
<td>Canadian market</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>US market</td>
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</table>

### Mounting options (order separately)

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting type</td>
<td>XSL11-WM-WT</td>
<td>Wall mount, white finish</td>
</tr>
<tr>
<td></td>
<td>XSL11-HK-WT</td>
<td>Hanging pendant mount, white finish</td>
</tr>
<tr>
<td></td>
<td>XSL11-PM-WT</td>
<td>Pole mount, white finish</td>
</tr>
<tr>
<td></td>
<td>XSL11-YS-SS</td>
<td>Yoke mount, stainless steel</td>
</tr>
<tr>
<td></td>
<td>XSL11-YK-SS</td>
<td>High vibration yoke</td>
</tr>
<tr>
<td></td>
<td>XSL11-CM</td>
<td>Conduit mount</td>
</tr>
</tbody>
</table>

Notes:
1. Minimum order quantities, additional costs and lead times may incur.
2. Custom finishes and high vibration yoke mount are not available for NSF certified units.
3. Hazardous location.
4. Yoke mount only available in stainless steel finish.
5. IDA Fixture seal of approval only applies to fixtures with a CCT of 3000K or less, and that have fixed mounts aiming the fixture perpendicular to the ground.
XSL10
LED Series

The unique combination of flexibility and robust design allows the implementation of this light fixture in various new or existing facilities. The XSL10 not only exceeds the expectations of an HID replacement, but establishes a new benchmark in versatility for industrial LED lighting.

---

**CERTIFICATIONS**

Not all XSL10 series are DLC qualified. For all qualified products, please visit: [www.designlights.com](http://www.designlights.com)

**CLASSIFICATION**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Division</th>
<th>Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>2</td>
<td>A, B, C, D</td>
</tr>
<tr>
<td>I</td>
<td>Zone 2</td>
<td>IIC</td>
</tr>
<tr>
<td>II</td>
<td>Zone 22</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>2</td>
<td>F, G</td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification

---

**Applications**

- Hazardous locations
- Indoor lighting
- Tunnel lighting
- Industrial facilities
- Refinery and petrochemical facilities

---

**Characteristics**

- Multiple mounting options
- Thermally managed for maximum longevity
- Available with multiple distribution patterns
- Triple-layer powder coating to weather extreme environments
- Vented enclosure ensures long-term reliability
- 0-10 V Dimming 1%-100%
XSL10 LED

Key features and benefits

**Features**
- Extremely robust
- Thermally managed for longevity
- Easy field angle adjustment
- -40 to 55 °C operating range
- Lifespan up to 100,000 hours
- Sealed to IP66
- Extreme vibration resistance

**Junction box**
- Direct heat transfer from power supply to external case for optimal performance
- Plenty of wiring space for optional accessories
  (contact your ABB representative for custom options)
- ¾” NPT entry
- IP 66/67 rated, suitable for wet locations

**Thermal management**
- Ample surface area of head ensures LEDs are kept running at maximum efficiency, even at 55 °C temperature
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperature
- Physical separation of electronics for increased system reliability
- Perimeter band adds ruggedness and channels heat through fins with laminar flow principles

**Output**
3050 to 6265 lumens

**Dimming**
Driver will source a maximum of 200 μA for control needs. A controller must sink current from 0–10 V control leads.

**Applications**
- Hazardous locations
- Indoor lighting
- Tunnel lighting
- Industrial facilities
- Refinery and petrochemical facilities

**Color temperature**
Available standard 5000 K, with additional color temperatures available from 2700 to 6500 K.

**Nichia LEDs**
- Proven reliability
- High efficiency
- Superior CRI (80+)
- Several CCT options for added design flexibility

**Housing**
- Copper-free high pressure die-cast aluminum case
- Triple-layer coating suitable for marine applications
- Physical separation between power supply and LEDs
- Lens and case are designed to withstand severe impact

**Power supplies**
- Two input ranges for ultimate flexibility
- Utilizes high performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation
- Built-in junction box with ¾” NPT entry

<table>
<thead>
<tr>
<th>Power</th>
<th>XSL103: 26 W (WF) - 29 W (2F, OF, SF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>XSL106: 51 W (WF) - 57 W (2F, OF, SF)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current</th>
<th>XSL103: AC - 0.25A@120 VAC  HV - 010A@347 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>XSL106: AC - 050A@120 VAC  HV - 020A@347 VAC</td>
</tr>
</tbody>
</table>
XSL10 LED
Mounting options

Wall pack mount XSL10-WM  
6.8 kg | 15 lbs

Yoke mount XSL10-YM  
6.3 kg | 13.9 lbs

Pole mount XSL10-PM  
5.6 kg | 12.4 lbs

Conduit connection XSL10-CC  
5.3 kg | 11.7 lbs

Hook pendant mount XSL10-HK  
4.9 kg | 10.8 lbs

Secondary safety XSL10-SS
**XSL10 LED**

Optic options

---

**CUT – Wide beam (no optic)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL103</td>
<td>3050</td>
</tr>
<tr>
<td>XSL106</td>
<td>5650</td>
</tr>
</tbody>
</table>

**R2 – IESNA Type 2**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL103</td>
<td>2980</td>
</tr>
<tr>
<td>XSL106</td>
<td>5520</td>
</tr>
</tbody>
</table>

**OC – Oval 26° x 108°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL103</td>
<td>3290</td>
</tr>
<tr>
<td>XSL106</td>
<td>6090</td>
</tr>
</tbody>
</table>

**SF – Spot 18°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL103</td>
<td>3380</td>
</tr>
<tr>
<td>XSL106</td>
<td>6265</td>
</tr>
</tbody>
</table>

Standard offering above, 13 alternate optical profiles available upon request.

Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.

---

**Numbering system**

<table>
<thead>
<tr>
<th>Series</th>
<th>Optics</th>
<th>Finish</th>
<th>Color</th>
<th>Power</th>
<th>Location</th>
<th>Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSL1006</td>
<td>CUT</td>
<td>GY</td>
<td>CW</td>
<td>AC</td>
<td>HL</td>
<td>U</td>
</tr>
</tbody>
</table>

---

**Lighting fixture**

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XSL1003</td>
<td>2980 to 3380 lumens</td>
</tr>
<tr>
<td>2 Series</td>
<td>XSL1006</td>
<td>5520 to 6265 lumens</td>
</tr>
<tr>
<td>2 Optics</td>
<td>SF</td>
<td>Spot 18°</td>
</tr>
<tr>
<td>2 Optics</td>
<td>R2</td>
<td>IESNA Type 2</td>
</tr>
<tr>
<td>2 Optics</td>
<td>OC</td>
<td>Oval 26° x 108°</td>
</tr>
<tr>
<td>2 Optics</td>
<td>CUT</td>
<td>Wide (no optic)</td>
</tr>
<tr>
<td>3 Finish</td>
<td>GY</td>
<td>Gray</td>
</tr>
<tr>
<td>4 Color</td>
<td>CW</td>
<td>Cool white (5000 K)</td>
</tr>
<tr>
<td>5 Power</td>
<td>AC</td>
<td>120 - 277 VAC</td>
</tr>
<tr>
<td>5 Power</td>
<td>HV</td>
<td>347 VAC</td>
</tr>
<tr>
<td>6 Location</td>
<td>HL</td>
<td>Hazardous location</td>
</tr>
<tr>
<td>7 Market</td>
<td>Blank</td>
<td>US market</td>
</tr>
</tbody>
</table>

**Mounting options (order separately)**

- XSL10-WM-GY: Wall mount, gray finish
- XSL10-PM-GY: Pole mount, gray finish
- XSL10-YM: Yoke mount
- XSL10-CG-GY: Conduit connection
- XSL10-HK-GY: Hook pendant mount
- XSL10-SS: Secondary safety

*Only available in stainless steel*
ABB-Ex Solutions™ linear and flood lighting products are ideally suited for use in a broad range of industrial applications.
# Table of contents

Linear and flood lighting products

<table>
<thead>
<tr>
<th>Page Range</th>
<th>Product Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>046–049</td>
<td>XLN6 LED Series</td>
</tr>
<tr>
<td>050–053</td>
<td>XLN7 LED Series</td>
</tr>
<tr>
<td>054–057</td>
<td>XLN13 LED Series</td>
</tr>
<tr>
<td>058–061</td>
<td>XLN12 LED Series</td>
</tr>
<tr>
<td>062–065</td>
<td>XFL8 LED Series</td>
</tr>
</tbody>
</table>
XLN6 LED Series

An energy-efficient alternative when sturdy vapor and dust proof lighting is required. A wide range of lumen output makes this your go-to fixture for a variety of applications.

- Hinged front door frame with hinged ballast tray
- Performance ranges from 2,800 to 9,900 lumens
- Front access fixture for hazardous locations
- Available in 2, 3, 4, 5 and 6 lamp configurations

CERTIFICATIONS

UL844
UL 1598 wet/damp
UL8750

CLASSIFICATION

<table>
<thead>
<tr>
<th>CLASS</th>
<th>DIVISION 2</th>
<th>GROUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS I</td>
<td></td>
<td>A, B, C, D</td>
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<tr>
<td>CLASS II</td>
<td></td>
<td>F, G</td>
</tr>
<tr>
<td>CLASS III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification
XLN6 LED

Key features and benefits

Standard Features
• Front access fixture for hazardous locations
• Hinged front door frame with hinged ballast tray
• Spring-loaded lamp holders – standard
• Available in 2, 3, 4, 5 and 6 lamp configurations
• Multiple hub locations can meet most wiring needs

Construction
• Sturdy 18 gauge steel white powder-coated housing
• 1/16" tempered glass lens
• Zinc latches

Electrical
• Available standard ballast factor
• Wattage ranging from 25 W in the 2-lamp low ballast factor, to 87 W in 6-lamp standard ballast factor configuration (see wattage table below)
• Through-feed wiring
• Voltage of 120 to 277 and 347 available

Color rendering index
• Superior CRI (80+)

Options
• Adjustable surface-mount brackets
• Cable mount
• Wire guard
• Acrylic lens
• 3-wire whip

Accessories
• Chain or cable mount kit
• Adjustable surface or vertical mounting bracket

---

Photometry ceiling mount

<table>
<thead>
<tr>
<th>Reference data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog number</td>
</tr>
<tr>
<td>Luminaire lumens</td>
</tr>
<tr>
<td>Luminaire efficacy rating (LER)</td>
</tr>
<tr>
<td>Input watt</td>
</tr>
<tr>
<td>Spacing criterion (0-180)</td>
</tr>
<tr>
<td>Spacing criterion (90-270)</td>
</tr>
<tr>
<td>Spacing criterion (diagonal)</td>
</tr>
</tbody>
</table>

---

Candlepower curve

---

T-Ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated ambient (°C)</th>
<th>Class I Division 2 Groups A, B, C, D</th>
<th>Class II Division 2 Groups F, G</th>
<th>Class III</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN6</td>
<td>40</td>
<td>T5 (100 °C)</td>
<td>T4A (120 °C)</td>
<td>T4A (120 °C)</td>
</tr>
</tbody>
</table>

---

Performance

<table>
<thead>
<tr>
<th>Lamp qty.</th>
<th>Source (ballast factor)</th>
<th>Average system watts</th>
<th>Initial lumen output</th>
<th>Color temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Lamp</td>
<td>S - Standard</td>
<td>29</td>
<td>3200, 3300</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>3 Lamp</td>
<td>S - Standard</td>
<td>43.5</td>
<td>4800, 4950</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>4 Lamp</td>
<td>S - Standard</td>
<td>58</td>
<td>6400, 6600</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>5 Lamp</td>
<td>S - Standard</td>
<td>72.5</td>
<td>8000, 8250</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>6 Lamp</td>
<td>S - Standard</td>
<td>87</td>
<td>9600, 9900</td>
<td>4000K, 5000K</td>
</tr>
</tbody>
</table>
**XLN6 LED**

**Dimensions**

![Diagram of XLN6 LED dimensions]

- 1/4" NPT hubs
- 1/4" NPT both ends
- Integrated access door hinge
- 51 1/8"
- 53 3/4"
- 1/2 NPT both ends

- Hinged reflector
- Brackets for optional mounting kits
- Hinged door frame
- Rotary draw latches

- "A" 2 Lamp: 12 3/16" (30.96 cm)
- 3 & 4 Lamp: 16 3/16" (41.12 cm)
- 5 & 6 Lamp: 20 11/16" (52.54 cm)

**Mounting options**

- **Chain kit**
  P/N: XLN6-CHAIN

- **Pendant-style mounting**
  Note: Conduit supply by others 45° between conduit

- **Cable hang kit**
  P/N: XLN6-CABLE (zinc coated), Qty 2 cables with toggle ends and qty 2 self-locking gripples

- **Adjustable surface-mounting bracket kit**
  P/N: XLN6-SURFACE (galvanized), toggle ends and qty 2 self-locking gripples
# XLN6 LED

## Numbering system

### Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XLN6</td>
<td>Fixture series</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>Ballast factor</td>
</tr>
<tr>
<td>3</td>
<td>5K</td>
<td>Color temp.</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Lamp quantity</td>
</tr>
<tr>
<td>5</td>
<td>UN</td>
<td>Voltage</td>
</tr>
<tr>
<td>6</td>
<td>PFT</td>
<td>Hub</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>Options</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN6</td>
<td>ABB-EX Solutions Linear Luminaire 6 Series</td>
</tr>
<tr>
<td>S</td>
<td>Standard ballast factor</td>
</tr>
<tr>
<td>4K</td>
<td>4000K</td>
</tr>
<tr>
<td>5K</td>
<td>5000K</td>
</tr>
<tr>
<td>2</td>
<td>2 lamp configuration, 4’ length</td>
</tr>
<tr>
<td>3</td>
<td>3 lamp configuration, 4’ length</td>
</tr>
<tr>
<td>4</td>
<td>4 lamp configuration, 4’ length</td>
</tr>
<tr>
<td>5</td>
<td>5 lamp configuration, 4’ length</td>
</tr>
<tr>
<td>6</td>
<td>6 lamp configuration, 4’ length</td>
</tr>
<tr>
<td>UN</td>
<td>Universal voltage 120 - 277, 50/60 Hz</td>
</tr>
<tr>
<td>34</td>
<td>347 Volts</td>
</tr>
<tr>
<td>PFT</td>
<td>1/2” NPT hubs on top and side</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KH</td>
<td>Adjustable mounting brackets for surface mount</td>
</tr>
<tr>
<td>CX</td>
<td>Cable mount (with 5’ cable)</td>
</tr>
<tr>
<td>PW</td>
<td>3-Wire whip</td>
</tr>
<tr>
<td>WG</td>
<td>Wire guard</td>
</tr>
<tr>
<td>F</td>
<td>Fusing</td>
</tr>
<tr>
<td>A</td>
<td>Acrylic lens</td>
</tr>
<tr>
<td>P</td>
<td>Polycarbonate lens</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN6-CHAIN</td>
<td>Chain hang kit</td>
</tr>
<tr>
<td>XLN6-CABLE</td>
<td>Cable hang kit</td>
</tr>
<tr>
<td>XLN6-SURFACE</td>
<td>Adjustable surface mounting bracket</td>
</tr>
</tbody>
</table>
**XLN7 LED Series**

Versatile, lightweight, explosion-proof lighting that is built to last. Can be mounted on walls, ceilings or inside a spray booth.

- **Performance ranges from 2,800 to 6,600 lumens**
- **Available with 2, 3 and 4 lamps in 4-foot length**
- **Factory sealed, lightweight, cast natural aluminum**
- **Suitable for use inside a spray booth**

### CERTIFICATIONS

- UL844
- UL 1598 wet/damp
- UL8750

### CLASSIFICATION

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Division 1</th>
<th>Division 2</th>
<th>Zone 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS I</td>
<td>Groups C, D</td>
<td>Groups A, B, C, D</td>
<td>Groups II, IIA</td>
</tr>
<tr>
<td>CLASS II</td>
<td>Group E, F, G</td>
<td>Group E, F, G</td>
<td></td>
</tr>
<tr>
<td>CLASS III</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CLASS I and II**

Simultaneous Presence

Contact your ABB sales representative to verify classification
**XLN7 LED**

**Key features and benefits**

**Standard features**
- Factory-sealed, lightweight cast natural aluminum
- 5 Different 1/2" NPT hubs entries at each end
- Center ballast placement for better balance and low profile
- Available with 2, 3 or 4 lamps in 4-foot length
- One-piece painted aluminum reflector
- Suitable for use inside a spray booth

**Construction**
- Cast natural aluminum
- 0.189" wall borosilicate glass tubes

**Electrical**
- Available with low or standard ballast factor
- Wattage ranging from 29 W in the 2-lamp standard configuration, to 58 W in the 4-lamp configuration (see wattage table below)
- Voltage of 120 to 277 (50/60Hz) and 347 available

**Color rendering index**
- Superior CRI (80+)

**Options**
- Wall and ceiling mount kit (4 lamps)
- Wire guard
- Polycarbonate shield
- 93% reflective premium specular reflector insert

**Accessories**
- Wall, ceiling and drop mount kit

**Performance**

<table>
<thead>
<tr>
<th>Lamp qty.</th>
<th>Source (ballast factor)</th>
<th>Average system watts</th>
<th>Initial lumen output</th>
<th>Color temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Lamp</td>
<td>S - Standard</td>
<td>29</td>
<td>3200, 3300</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>3 Lamp</td>
<td>S - Standard</td>
<td>43.5</td>
<td>4800,4950</td>
<td>4000K, 5000K</td>
</tr>
<tr>
<td>4 Lamp</td>
<td>S - Standard</td>
<td>58</td>
<td>6400,6600</td>
<td>4000K, 5000K</td>
</tr>
</tbody>
</table>

**Photometry ceiling mount**

**Reference data**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Luminaire lumens</th>
<th>Luminaire efficacy rating</th>
<th>Input watt</th>
<th>Spacing criterion (0-180)</th>
<th>Spacing criterion (90-270)</th>
<th>Spacing criterion (diagonal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN755K24UN</td>
<td>3,024 Lumens</td>
<td>105</td>
<td>28.68</td>
<td>1.26</td>
<td>1.40</td>
<td>1.48</td>
</tr>
</tbody>
</table>

**Reference data**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Luminaire lumens</th>
<th>Luminaire efficacy rating</th>
<th>Input watt</th>
<th>Spacing criterion (0-180)</th>
<th>Spacing criterion (90-270)</th>
<th>Spacing criterion (diagonal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN755K34UN</td>
<td>4,803 Lumens</td>
<td>110</td>
<td>43.72</td>
<td>1.26</td>
<td>1.40</td>
<td>1.48</td>
</tr>
</tbody>
</table>

**T-Ratings**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated ambient (°C)</th>
<th>Class I, Division 1 Groups C, D</th>
<th>Class I, Division 2 Groups A, B, C, D</th>
<th>Class II, Division 1 Groups E, F, G</th>
<th>Class II, Division 2 Groups E, F, G</th>
<th>Class I and II simultaneous presence</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN7</td>
<td>40</td>
<td>T6 (85°C)</td>
<td>T6 (85°C)</td>
<td>T4 (135°C)</td>
<td>T4 (135°C)</td>
<td>T4 (135°C)</td>
</tr>
</tbody>
</table>
XLN7 LED
Dimensions

2L 4-ft. Dimensions

3L 4-ft. Dimensions

4L 4-ft. Dimensions

Mounting options

Wall/ceiling mount kit for 2 or 3 lamps
P/N: XLN7-4401

Wall/ceiling mount kit for 4 lamps
P/N: XLN7-4400

These are factory fitted. Please contact sales office for further details.

Drop-mount kit for 2 or 3 lamps
P/N: XLN7-4405

For 4 lamps
P/N: XLN7-4403
# XLN7 LED

## Numbering system

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fixture series</td>
</tr>
<tr>
<td>2</td>
<td>Ballast factor</td>
</tr>
<tr>
<td>3</td>
<td>Color temperature</td>
</tr>
<tr>
<td>4</td>
<td>Lamp quantity</td>
</tr>
<tr>
<td>5</td>
<td>Length</td>
</tr>
<tr>
<td>6</td>
<td>Voltages</td>
</tr>
<tr>
<td>7</td>
<td>Options</td>
</tr>
</tbody>
</table>

### Lighting fixture

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN7-4401-EX</td>
<td>Wall and ceiling hanger kit 2 or 3 lamp</td>
</tr>
<tr>
<td>XLN7-4405-EX</td>
<td>Drop hanger kit 2 or 3 lamp</td>
</tr>
<tr>
<td>XLN7-4403-EX</td>
<td>Drop hanger kit 4 lamp</td>
</tr>
<tr>
<td>XLN7-4211-EX</td>
<td>Stainless steel guard 2 lamp 4'</td>
</tr>
<tr>
<td>XLN7-4557-EX</td>
<td>Stainless steel guard 3 lamp 4'</td>
</tr>
<tr>
<td>(2)XLN7-4211-EX</td>
<td>Stainless steel guard 4 lamp 4'</td>
</tr>
<tr>
<td>XLN7-4209-EX</td>
<td>Polycarbonate shield 2 lamp 4'</td>
</tr>
<tr>
<td>XLN7-4497-EX</td>
<td>Polycarbonate shield 3 lamp 4'</td>
</tr>
<tr>
<td>(2) XLN7-4209-EX</td>
<td>Polycarbonate shield 4 lamp 4'</td>
</tr>
</tbody>
</table>

### Accessories (order separately)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN</td>
<td>Universal voltage 120–277 50/60 Hz</td>
</tr>
<tr>
<td>34</td>
<td>347 Volt</td>
</tr>
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</table>

### Options

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Polycarbonate shield 2 lamps 4'</td>
</tr>
<tr>
<td>WG</td>
<td>Stainless steel guard</td>
</tr>
<tr>
<td>MK</td>
<td>Wall/ceiling mount kit (4 lamps)</td>
</tr>
</tbody>
</table>
XLN13 LED Series

A durable and robust linear luminaire designed to replace conventional fluorescent fixtures in industrial, commercial and tunnel applications.

- Easy field angle adjustment with optional swivel mount
- 0–10 V dimming 1%–100%
- Multiple light output options to replace fluorescent fixtures
- IP66 vented enclosure eliminates pressure differentials for reliable sealing
- Surface or suspension mounting

**CLASSIFICATION**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Division 2</th>
<th>Group</th>
<th>Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS I</td>
<td>Groups A, B, C, D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS II</td>
<td>Groups F, G</td>
<td></td>
<td>Zone 22 Group IIB</td>
</tr>
<tr>
<td>CLASS III</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CERTIFICATIONS**

- UL844
- UL1598A
- UL8750
- E76933
- E76933

**APPLICATIONS**

- Tunnels
- Interior fluorescent replacement
- Loading docks

Contact your ABB sales representative to verify classification
**XLN13 LED**

Key features and benefits

**Features**
- 100% field serviceable
- Minimum CRI of 70
- Up to 115 lumen/watt delivered
- -40 to 46 °C operating range
- IP66 vented enclosure

**Finish**
- Powder-coated end caps
- Polycarbonate lens resistant to impact with an integral hinge part of the fixture
- Ideal for dirty, wet and corrosive environments

**Housing**
- Copper-free high-pressure die-cast aluminum end caps and extruded aluminum body
- Suitable for wet locations (IP66)
- Lens and case are designed to withstand severe impact and vibration
- Vented enclosure eliminates pressure differentials and ensures reliable sealing

**Output**
- 3,970 up to 10,000 lumens
- 0–10 V dimmable

**Mounting**
- Versatile brackets allow for several mounting styles:
  - Surface mount
  - Suspended mount
  - Angle adjustable mount

**Dimming**
Driver will source a maximum of 200 μA for control needs. A controller must sink current from 0–10 V control leads.

**Applications**
- Tunnels
- Interior fluorescent replacement
- Loading docks

**Color temperature**
Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K.

**Nichia LEDs**
- Proven reliability
- High efficiency
- High CRI (70+)

**Power supplies**
- Two input power ranges for flexibility
- Over-voltage, over-temperature and short circuit protection
- Built-in junction box with ¾” NPT entry for electrical termination within sealed cavity
- Transient/surge protection: IEEE C62.41 4 kV/4 kV
## XLN13 LED

### Mounting options

<table>
<thead>
<tr>
<th>Surface mount</th>
<th>Suspended mount</th>
<th>Angle adjustable mount (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Surface mount" /></td>
<td><img src="image2" alt="Suspended mount" /></td>
<td><img src="image3" alt="Angle adjustable mount" /></td>
</tr>
</tbody>
</table>

- **Surface mount**
  - 304 Stainless steel
  - **Weight:** NL2: 5.1 kg | 11.3 lbs, NL4: 10 kg | 22 lbs
  - **Dimensions:**
    - Width: 28.72" (730 mm)
    - Height: 2.44" (62 mm)
    - Depth: 30.10" (765 mm)

- **Suspended mount**
  - Easy field 360° angle adjustment with 3 mm hex key
  - Two 6.5 mm x 10 mm slots on each end for suspension hardware (not provided)

- **Angle adjustable mount (optional)**
  - XLN13-AM
  - **Weight:** NL2: 5.1 kg | 11.3 lbs, NL4: 10 kg | 22 lbs
  - **Dimensions:**
    - Width: 29.13" (740 mm)
    - Height: 3" (76 mm)
    - Depth: 30.25" (768 mm)

---

### Adjustable mount (XLN13-AM - optional)

- **XLN132 – Angle adjustable mount (XLN13-AM)**
  - 304 Stainless steel
  - **Weight:** 5.3 kg | 12 lbs (optional accessory)
  - **Dimensions:**
    - Width: 52.63" (1337 mm)
    - Height: 53.75" (1365 mm)
    - Depth: 3" (76 mm)

- **XLN134 – Angle adjustable mount (XLN13-AM)**
  - 304 Stainless steel
  - **Weight:** 8.6 kg | 19 lbs (optional accessory)
  - **Dimensions:**
    - Width: 53.6" (1362 mm)
    - Height: 52.22" (1327 mm)
    - Depth: 3" (76 mm)
## XLN13 LED

### Fixture comparison

<table>
<thead>
<tr>
<th>Size</th>
<th>T12</th>
<th>T8</th>
<th>T5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4 foot</td>
<td>8 foot</td>
<td>4 foot</td>
</tr>
<tr>
<td>Rating</td>
<td>Standard</td>
<td>High output</td>
<td>Standard</td>
</tr>
<tr>
<td>Lamp quantity</td>
<td>2-Lamp</td>
<td>4-Lamp</td>
<td>2-Lamp</td>
</tr>
<tr>
<td>Est. power (W)</td>
<td>74</td>
<td>133</td>
<td>158</td>
</tr>
<tr>
<td>Est. lumens LED cross</td>
<td>3,200</td>
<td>6,400</td>
<td>6,000</td>
</tr>
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</table>

### Model Lumens

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumens</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN132-S</td>
<td>3,970</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>XLN132-H</td>
<td>5,143</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>XLN132-X</td>
<td>7,965</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>XLN134-S</td>
<td>8,697</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>XLN134-H</td>
<td>10,470</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### Electrical ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Input voltage</th>
<th>Rated wattage (Watts)</th>
<th>Rated voltage (Volts)</th>
<th>Frequency (Hz)</th>
<th>Ambient temp. (°C)</th>
<th>Total lumens</th>
<th>T-codes (Class I Division 2)</th>
<th>T-codes (Class II Division 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN132-S</td>
<td>AC</td>
<td>36</td>
<td>120-277</td>
<td>50/60</td>
<td>-40 to 55</td>
<td>3,970</td>
<td>T4A</td>
<td>T4</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>36</td>
<td>347-480</td>
<td>50/60</td>
<td>-40 to 54</td>
<td>3,970</td>
<td>T4A</td>
<td>T4</td>
</tr>
<tr>
<td>XLN132-H</td>
<td>AC</td>
<td>52</td>
<td>120-277</td>
<td>50/60</td>
<td>-40 to 55</td>
<td>5,143</td>
<td>T4A</td>
<td>T4</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>52</td>
<td>347-480</td>
<td>50/60</td>
<td>-40 to 54</td>
<td>5,143</td>
<td>T4A</td>
<td>T4</td>
</tr>
<tr>
<td>XLN132-X</td>
<td>AC</td>
<td>70</td>
<td>120-277</td>
<td>50/60</td>
<td>-40 to 52</td>
<td>7,965</td>
<td>T5</td>
<td>T4</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>82</td>
<td>347-480</td>
<td>50/60</td>
<td>-40 to 46</td>
<td>7,965</td>
<td>T5</td>
<td>T4</td>
</tr>
<tr>
<td>XLN134-S</td>
<td>AC</td>
<td>85</td>
<td>120-277</td>
<td>50/60</td>
<td>-40 to 55</td>
<td>8,697</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>90</td>
<td>347-480</td>
<td>50/60</td>
<td>-40 to 54</td>
<td>8,967</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td>XLN134-H</td>
<td>AC</td>
<td>105</td>
<td>120-277</td>
<td>50/60</td>
<td>-40 to 54</td>
<td>10,470</td>
<td>T4A</td>
<td>T4A</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>109</td>
<td>347-480</td>
<td>50/60</td>
<td>-40 to 52</td>
<td>10,470</td>
<td>T4A</td>
<td>T4A</td>
</tr>
</tbody>
</table>

## Numbering system

### Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XLN132</td>
<td>2 foot</td>
</tr>
<tr>
<td>2 Output</td>
<td>5</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>H</td>
<td>High output</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Extra high output¹</td>
</tr>
<tr>
<td>3 Optics</td>
<td>WC</td>
<td>Wide (no optics)</td>
</tr>
<tr>
<td>4 Finish</td>
<td>GY</td>
<td>Gray</td>
</tr>
<tr>
<td>5 Color</td>
<td>50</td>
<td>Cool white</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>Warm white</td>
</tr>
<tr>
<td>6 Power</td>
<td>AC</td>
<td>120 to 277 VAC</td>
</tr>
<tr>
<td></td>
<td>HV</td>
<td>347 to 480 VAC</td>
</tr>
<tr>
<td>7 Location</td>
<td>HL</td>
<td>Hazardous location</td>
</tr>
<tr>
<td>8 Market</td>
<td>Blank</td>
<td>Canadian market</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>US market</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN13-AM-GY-EX</td>
<td>Adjustable mount (order separately)</td>
</tr>
</tbody>
</table>

¹Not available with XLN134
ABB EX-SOLUTIONS™ HAZARDOUS LOCATION LIGHTING PRODUCTS AND ACCESSORIES

**XLN12 LED Series**

Lightweight, extremely durable and water-tight linear strip fixtures to withstand the most demanding hazardous location environments.

- Available in 100° wide beam profile (AC and DC) and 30° wide beam profile (DC)
- Lifespan up to 60,500 hours (AC) and 100,000 hours (DC)
- Easy field angle adjustment
- Standard with 3ft. whip
- IP66 Gore® vented enclosure
- Available in multiple lengths
- Compatible with most ELV dimmers (AC)

**CERTIFICATIONS**

- UL844
- UL1598A
- UL8750
- UL Listed E76533
- Marine Listed E76533
- IP66/67/68

**CLASSIFICATION**

<table>
<thead>
<tr>
<th>CLASS I</th>
<th>Div 2</th>
<th>Groups A, B, C, D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 2</td>
<td></td>
<td>Group IIIC</td>
</tr>
<tr>
<td>CLASS II</td>
<td>Div 2</td>
<td>Groups F, G</td>
</tr>
<tr>
<td>Zone 22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASS III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification.
## XLN12 LED

### Key features and benefits

#### Mounting
- Fixture has two mount options:
  - End brackets that allow for easy field adjustable 360° rotation
  - Carriage bolts for mounting to surfaces

#### Housing
- Extruded aluminum and copper-free aluminum casting
- MIL-SPEC Hard anodizing (body) and super-durable powdercoat (end caps) suitable for rugged outdoor environments
- Custom brackets available upon request
- Polycarbonate lens designed to withstand severe impact

#### CREE LEDs
- Proven reliability
- High efficiency
- Superior CRI (80+)
- Available in standard 5000 K and 3500 K with custom color and dual color options available for special order

#### Power supplies
- Utilizes high performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation
- 12 V or 24 V DC input options can run directly off of vehicle or facility low voltage DC
- High-efficiency internal reflector maximizes output

#### Thermal management
- Heat-sink designed for optimal heat dissipation

#### Color temperature
Available standard in 5000 K, with additional color temperatures available from 2700 to 6500 K.

---

### Optic options

#### W – Wide 100°

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN12-1</td>
<td>586</td>
</tr>
<tr>
<td>XLN12-2</td>
<td>1172</td>
</tr>
<tr>
<td>XLN12-3</td>
<td>1758</td>
</tr>
<tr>
<td>XLN12-4</td>
<td>2289</td>
</tr>
</tbody>
</table>

#### N – Narrow 30° (DC only)

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumen output (CW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLN12-1</td>
<td>559</td>
</tr>
<tr>
<td>XLN12-2</td>
<td>1118</td>
</tr>
<tr>
<td>XLN12-3</td>
<td>1677</td>
</tr>
<tr>
<td>XLN12-4</td>
<td>2236</td>
</tr>
</tbody>
</table>

#### Reflector
- High efficiency internal reflector maximizes output

#### Electronics enclosure
- Direct transfer of heat from PCB to the casing to maximize lifetime and reliability
- Suitable for wet location
- Unique case design utilizes compression for sealing and eliminates fasteners on the front face

#### Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>XLN12-1</th>
<th>XLN12-2</th>
<th>XLN12-3</th>
<th>XLN12-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>12 VDC</td>
<td>12W</td>
<td>21W</td>
<td>36W</td>
</tr>
<tr>
<td></td>
<td>24 VDC</td>
<td>11W</td>
<td>21W</td>
<td>32W</td>
</tr>
<tr>
<td></td>
<td>120 VAC</td>
<td>10W</td>
<td>20W</td>
<td>31W</td>
</tr>
<tr>
<td>Current</td>
<td></td>
<td>0.75A</td>
<td>1.5A</td>
<td>2.3A</td>
</tr>
<tr>
<td></td>
<td>24 VDC</td>
<td>0.40A</td>
<td>0.75A</td>
<td>1.1A</td>
</tr>
<tr>
<td></td>
<td>120 VAC</td>
<td>0.09A</td>
<td>0.17A</td>
<td>0.23A</td>
</tr>
</tbody>
</table>
**XLN12 LED**

**Dimensions**

### XLN12-1 0.8 kg | 1.8 lbs

- **Dimensions:**
  - Adjustable mounting bracket
  - Carriage bolt/surface mount
  - Easy field 360° angle adjustment with 3 mm hex key

### XLN12-2 1.2 kg | 2.6 lbs

- **Dimensions:**
  - Adjustable mounting bracket
  - Carriage bolt/surface mount

### XLN12-3 1.8 kg | 3.9 lbs

- **Dimensions:**
  - Adjustable mounting bracket
  - Carriage bolt/surface mount

### XLN12-4 2.4 kg | 5.3 lbs

- **Dimensions:**
  - Adjustable mounting bracket
  - Carriage bolt/surface mount

**Mounting options**

- **A - Adjustable mounting bracket**
  - Easy field 360° angle adjustment with 3 mm hex key
- **B - Carriage bolt/surface mount**
  - 1/4" - 20 x 1" carriage bolts
Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Series</td>
<td>XLN121</td>
<td>1 Foot</td>
</tr>
<tr>
<td></td>
<td>XLN122</td>
<td>2 Foot</td>
</tr>
<tr>
<td></td>
<td>XLN123</td>
<td>3 Foot</td>
</tr>
<tr>
<td></td>
<td>XLN124</td>
<td>4 Foot</td>
</tr>
<tr>
<td>2 Optics</td>
<td>N</td>
<td>Narrow 30°</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>Wide 100°</td>
</tr>
<tr>
<td>3 Finish</td>
<td>BK</td>
<td>Black</td>
</tr>
<tr>
<td>4 Color</td>
<td>C</td>
<td>Cool white</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>Warm white</td>
</tr>
<tr>
<td>5 Mount</td>
<td>A</td>
<td>Adjustable</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>Carriage bolt</td>
</tr>
<tr>
<td>6 Power</td>
<td>12</td>
<td>11–16 VDC</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>21–28 VDC</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>120 VAC</td>
</tr>
<tr>
<td>7 Location</td>
<td>HL</td>
<td>Hazardous location</td>
</tr>
<tr>
<td>8 Market</td>
<td>Blank</td>
<td>Canadian market</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>US market</td>
</tr>
</tbody>
</table>

*Available in DC only*
XFL8
LED Series

An energy-efficient, broad-beamed, high-intensity flood light designed to be used in hazardous, marine or low-bay outdoor conditions.

Designed for outdoor, hazardous, low-bay and flood applications

Selection of mounting styles
- Ceiling
- Pendant
- Yoke
- Wall
- Stanchion
- Angled stanchion

Multiple distribution patterns

50 W (6400 lumens)
80 W (9000 lumens)
105 W (11000 lumens)

CERTIFICATIONS
UL844
UL 1598 wet/damp
UL8750

CLASSIFICATION

<table>
<thead>
<tr>
<th>CLASS I</th>
<th>Division 2</th>
<th>Groups A, B, C, D</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS II</td>
<td>Division 2</td>
<td>Groups F, G</td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification.
XFL8
Key features and benefits

Features
• Energy-efficient alternative to hazardous location metal halide and high pressure sodium
• Designed for outdoor, hazardous, marine, low-bay and flood applications
• Gray powder coat finish
• Multiple distribution patterns, type V
• Selection of frosted film, 16°, 70° or 120° lens
• CCT 4000 K, 5000 K and 7000 K available
• Selection of mounting style
• Tamper-proof screws
• > 120,000 hours rated lifetime projection (L70)
• CRI (75)

Construction
• Cooper-free cast aluminum housing
• Captive stainless steel fasteners and insert
• 24 high-power LEDs

Electrical
• 50 W (6400 lumens), 80 W (9000 lumens), 105 W (11,000 lumens)
• 120–277 V
• 277–480 V (6400 lumens only)

Options
• Mounting: ceiling, pendant, yoke, wall, straight or angled stanchion
• Cord with blunt end
• Lens guard
• Black or white finish

—

Photometry

Reference data
Catalog number XFL810UNC1-N
Luminaire lumens 12,059
Input watt 106.6
NEMA type 2 H x 2 V
Maximum candela 117901
Maximum candela angle 0H 0V
Horizontal beam angle (50%) 15.3
Vertical beam angle (50%) 15.2
Horizontal field angle (10%) 28.6
Vertical field angle (10%) 28.3

Reference data
Catalog number XFL810UNC1-M
Luminaire lumens 10,714
Input watt 106.1
NEMA type 6 H x 6 V
Maximum candela 9539.4
Maximum candela angle 0H 0V
Horizontal beam angle (50%) 68.2
Vertical beam angle (50%) 68.2
Horizontal field angle (10%) 100.1
Vertical field angle (10%) 100.5

Reference data
Catalog number XFL810UNC1-W
Luminaire lumens 11,025
Input watt 107
NEMA type 6 H x 6 V
Maximum candela 4241
Maximum candela angle 0H -47.5V
Horizontal beam angle (50%) 87.3
Vertical beam angle (50%) 120.2
Horizontal field angle (10%) 106.4
Vertical field angle (10%) 129.6

Model | Rated ambient temperature (°C) | Class I, Div 2 operating temperature code (160 °C) | Class II, Div 2 operating temperature code (100 °C)
--- | --- | --- | ---
XFL805 | 50 | T3C | T5
XFL808 | 50 | T3C | T5
XFL810 | 50 | T3C | T5

—

Thermal performance data

Axial candela display

Axial candela display

Axial candela display

Axial candela display
**XFL8**
Dimensions

**C1 and C2 ceiling mount**
(ceiling spacers provided)

**P2 pendant mount**

**Y1 yoke mount**

**L4-S4 L5-S5 wall/stanchion mount**

**B3 mount**

1½" or 1¾" NPT straight or angled at 25° x2-x5 mount

1" NPT 2 pcs (X1 mount)

1/8" and 5/64" NPT (2 pcs) F1 and F2 mount

1/8" NPT x 1/8" Slot

1/8" and 5/64" NPT (2 pcs) F1 and F2 mount

1/8" NPT x 1/8" Slot

1/8" and 5/64" NPT (2 pcs) F1 and F2 mount
## XFL8 Numbering system

### Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XFL8</td>
<td>ABB-EX Solutions Flood Light 8 Series</td>
</tr>
<tr>
<td>2</td>
<td>05</td>
<td>6,400 Lumen (50 watts)</td>
</tr>
<tr>
<td></td>
<td>08</td>
<td>9,000 Lumen (80 watts)</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>11,000 Lumen (105 watts)</td>
</tr>
<tr>
<td>3</td>
<td>UN</td>
<td>120–277 V</td>
</tr>
<tr>
<td></td>
<td>UN2</td>
<td>277–480 V (on 05 model only)</td>
</tr>
<tr>
<td>4</td>
<td>C1</td>
<td>Ceiling Y*</td>
</tr>
<tr>
<td></td>
<td>C2</td>
<td>Ceiling Y*</td>
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<tr>
<td></td>
<td>P2</td>
<td>Pendant Y*</td>
</tr>
<tr>
<td></td>
<td>Y1</td>
<td>Yoke mount Y*</td>
</tr>
<tr>
<td></td>
<td>B3</td>
<td>Wall mount Y*</td>
</tr>
<tr>
<td></td>
<td>L4</td>
<td>Stanchion 1Y*</td>
</tr>
<tr>
<td></td>
<td>S4</td>
<td>Angled stanchion 1Y*</td>
</tr>
<tr>
<td></td>
<td>L5</td>
<td>Stanchion 1Y*</td>
</tr>
<tr>
<td></td>
<td>S5</td>
<td>Angled stanchion 1Y*</td>
</tr>
<tr>
<td>5</td>
<td>F</td>
<td>Type V frosted film</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>Type V narrow 16° FWHM</td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>Type V narrow 70° FWHM</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>Type V narrow 120° FWHM</td>
</tr>
<tr>
<td>6</td>
<td>GRY</td>
<td>Gray powder-coat finish (standard)</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>LG</td>
<td>Lens guard</td>
</tr>
<tr>
<td></td>
<td>PW</td>
<td>Pre-wired 3’ cord with blunt end</td>
</tr>
<tr>
<td></td>
<td>BLK</td>
<td>Black powder-coat finish</td>
</tr>
<tr>
<td></td>
<td>WHT</td>
<td>White powder-coat finish</td>
</tr>
<tr>
<td></td>
<td>4K</td>
<td>4000 K</td>
</tr>
<tr>
<td></td>
<td>7K</td>
<td>7000 K</td>
</tr>
<tr>
<td></td>
<td>G</td>
<td>Lens guard</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>0-10V Dimming (not with cord option)</td>
</tr>
</tbody>
</table>
Rely on ABB-Ex Solutions™ emergency lighting in areas where a potential for explosion or fire exists, due to the presence of certain gases, liquid vapors, combustible dusts or fiber particles suspended in the air.
Table of contents

Emergency lighting products

068 – 069  XEB LED Series

070 – 071  XEC LED Series

072 – 073  XES LED Series

074 – 075  XER LED Series
XEB LED Series
Class I Division 2, Groups A, B, C and D
hazardous location battery unit

Key features and benefits

Housing
• Class I Division 2, Groups A, B, C and D
• Vandal-resistant UV stabilized polycarbonate lamp cover
• Front and back plates are of a heavy duty aluminum
• Stainless steel tamper-proof screws

Mounting:
• Surface wall mount only
• Includes mounting lugs on each side of the housing
• Universal J-box mounting
• 1/2 inch entry on both sides and top of housing

Lamp type
• Choice of MR16 LED lamp wattages

Electronics
• Pulse plus charger
• Low voltage disconnect
• Automatic brownout protection
• Battery lock-out
• Fused output circuit
• Magnetic test switch
• Standard Advanced Diagnostics (non-audible)
• 120/277 60Hz

Battery type
• 6 or 12V lead-calcium battery

Approvals
• CSA-US (to UL 924 standards)
• Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
• NEC, OSHA and NEMA compliant for above Classes and Groups
• Damp and wet location (50°F to 104°F)

Warranty
• Unit has a five-year limited warranty
EMERGENCY LIGHTING

Dimensions

Power consumption and unit rating

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>XEB18</td>
<td>0.17 / 0.09 Amp</td>
<td>1-1/2 hrs 2 hrs 3 hrs 4 hrs 8 hrs</td>
</tr>
<tr>
<td>12XEB36</td>
<td>0.30 / 0.15 Amp</td>
<td>18 12 9 – –</td>
</tr>
<tr>
<td>12XEB60</td>
<td>0.30 / 0.15 Amp</td>
<td>36 27 18 14 –</td>
</tr>
<tr>
<td>12XEB72</td>
<td>0.30 / 0.15 Amp</td>
<td>60 45 30 24 12</td>
</tr>
<tr>
<td>12XEB72</td>
<td>0.30 / 0.15 Amp</td>
<td>72 54 36 28 14</td>
</tr>
</tbody>
</table>

Temperature codes

<table>
<thead>
<tr>
<th>Lamp rating¹</th>
<th>Temperature code</th>
<th>Max. temperature</th>
<th>Replacement part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>6V-4W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0097-EX</td>
</tr>
<tr>
<td>12V-4W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0080-EX</td>
</tr>
<tr>
<td>12V-5W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0104-EX</td>
</tr>
<tr>
<td>12V-6W</td>
<td>T4A</td>
<td>120°C</td>
<td>580.0106-EX</td>
</tr>
</tbody>
</table>

¹Use qualified replacement lamps to avoid risk of over-heating

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7' mounting height</th>
<th>15' mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>39'</td>
<td>34'</td>
</tr>
<tr>
<td>L7</td>
<td>49'</td>
<td>39'</td>
</tr>
<tr>
<td>L9</td>
<td>68'</td>
<td>54'</td>
</tr>
<tr>
<td>L10</td>
<td>89'</td>
<td>80'</td>
</tr>
</tbody>
</table>

Numbering system

<table>
<thead>
<tr>
<th>Lighting fixture</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XELB0618</td>
<td>L1</td>
<td>6V18W lead-calcium</td>
</tr>
<tr>
<td>2</td>
<td>Voltage</td>
<td>6V/12V 36W lead-calcium</td>
</tr>
<tr>
<td>XELB1236</td>
<td>Color</td>
<td>Gray housing</td>
</tr>
<tr>
<td>3</td>
<td>DA</td>
<td>Advanced Diagnostics non-audible</td>
</tr>
<tr>
<td>XELB1260</td>
<td>Options</td>
<td>Advanced Diagnostics audible</td>
</tr>
<tr>
<td>XELB1272</td>
<td>-T3</td>
<td>Time delay 15 minutes</td>
</tr>
</tbody>
</table>

Lighting fixture

Photometric spacing for 1FC average

Center-to-center spacing

Mounting height
XEC LED Series
Class I Division 2, Groups A, B, C and D hazardous location combination unit

Key features and benefits

Construction
- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

Mounting
- Surface wall mount only
- Backplate features universal knockouts for a standard 4 inch junction box, and four mounting eyelets used in wall mount applications
- 1/2 inch conduit entry on top and sides.

Lamp type
- Choice of MR16 LED lamp wattages

Battery type
- XEC Model, nickel-cadmium battery, 6V-20W total battery capacity
- XEC12N Model, nickel-cadmium battery, 12V-24W total battery capacity

Electronics
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- 120/277 60Hz

Approvals
- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location (50°F to 104°F)
- Temperature code T4A (Max. temperature 248°F/120°C)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty
- Five-year limited warranty
**Power consumption and unit rating**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC Input</th>
<th>Current Power</th>
<th>Maximum Stand-by Battery capacity in watts</th>
<th>Stand-by Battery capacity in watts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120/277VAC</td>
<td>0.15/0.07A</td>
<td>16W</td>
<td>8W</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-1/2 hrs 20</td>
</tr>
<tr>
<td>XEC</td>
<td></td>
<td></td>
<td></td>
<td>2 hrs 15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 hrs 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td></td>
<td>120/277VAC</td>
<td>0.30/0.08A</td>
<td>29W</td>
<td>10W</td>
</tr>
<tr>
<td>XEC12N</td>
<td></td>
<td></td>
<td></td>
<td>1-1/2 hrs 24</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 hrs 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 hrs 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**Dimensions**

![Dimensions Diagram]

**Photometric performance**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Spacing center-to-center (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7' mounting height</td>
</tr>
<tr>
<td>L1</td>
<td>39'</td>
</tr>
<tr>
<td>L7</td>
<td>49'</td>
</tr>
<tr>
<td>L9</td>
<td>68'</td>
</tr>
<tr>
<td>L10</td>
<td>89'</td>
</tr>
</tbody>
</table>

**Numbering system**

**Lighting fixture**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Series/capacity</td>
<td>XELC</td>
</tr>
<tr>
<td>2</td>
<td>Lamp/wattage</td>
<td>L1</td>
</tr>
<tr>
<td>3</td>
<td>Voltage</td>
<td>03</td>
</tr>
<tr>
<td>4</td>
<td>Housing face/color</td>
<td>GG</td>
</tr>
<tr>
<td>5</td>
<td>Legend color</td>
<td>R</td>
</tr>
<tr>
<td>6</td>
<td>Diagnostics</td>
<td>DA</td>
</tr>
</tbody>
</table>

**Accessories (order as a separate item)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional special bit for tamper-proof screws</td>
<td>690.0454-EX</td>
</tr>
</tbody>
</table>
ABB EX-SOLUTIONS™ HAZARDOUS LOCATION LIGHTING PRODUCTS AND ACCESSORIES

—

XES LED Series
Class I Division 2, Groups A, B, C and D, hazardous location exit sign

Key features and benefits

Construction
• Fully gasketed housing frame
• Faceplate: heavy-duty, vandal-resistant polycarbonate
• Backplate: heavy-duty aluminum
• Stainless steel tamper-proof screws
• 6 inch EXIT lettering legend, available in red or green
• Field-selectable chevrons

Mounting
• Surface mount
• Junction box included for wall, end or ceiling mount applications
• 1/2 inch conduit knock-out entry on top and sides.

Electronics
• Magnetic test switch
• Standard Advanced Diagnostics (non-audible)
• 120/277 60Hz

Approvals
• CSA-US (To UL 924 standards)
• Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
• NEC, OSHA and NEMA compliant for above Classes and Groups
• Damp and wet location (50°F to 104°F)
• Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

Warranty
• Five-year limited warranty

CLASSIFICATION

<table>
<thead>
<tr>
<th>CLASS I</th>
<th>Division 2</th>
<th>Groups A, B, C, D</th>
</tr>
</thead>
</table>

Contact your ABB sales representative to verify classification

CERTIFICATIONS

UL844
UL924
US
LR111065

FEATURES
EMERGENCY LIGHTING

Dimensions

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>AC specs</th>
<th>DC specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-only red</td>
<td>120 to 277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>AC-only green</td>
<td>120 to 277VAC</td>
<td>Less than 1.5W</td>
</tr>
<tr>
<td>Self-powered red</td>
<td>120 to 277VAC</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>Self-powered green</td>
<td>120 to 277VAC</td>
<td>Less than 2.5W</td>
</tr>
</tbody>
</table>

1Cold-weather option does not consume additional power

Numbering system

Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XELES</td>
<td>Series/capacity AC/DC (50° to 104°F Amb)</td>
</tr>
<tr>
<td></td>
<td>XELESN</td>
<td>Self-powered (NiCad) (50° to 104°F)</td>
</tr>
<tr>
<td>2</td>
<td>03</td>
<td>Voltage</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Single (ceiling/wall mount)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Double (ceiling mount only)</td>
</tr>
<tr>
<td>4</td>
<td>GA</td>
<td>Color of body/face</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>Legend</td>
</tr>
<tr>
<td>5</td>
<td>Blank</td>
<td>Diagnostic</td>
</tr>
<tr>
<td>6</td>
<td>CW</td>
<td>Options</td>
</tr>
<tr>
<td>7</td>
<td>CW</td>
<td>Options</td>
</tr>
</tbody>
</table>

Accessories (order as a separate item)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamper-proof bit (extra)</td>
<td>690.0454-EX</td>
</tr>
<tr>
<td>Convert single to double face, red¹</td>
<td>DFKR-GY-EX</td>
</tr>
<tr>
<td>Convert single face to double face, green¹</td>
<td>DFKG-GY-EX</td>
</tr>
</tbody>
</table>

¹In the field
²Other colors available
³Available with XELESN only
XER LED Series
Class I Division 2, Groups A, B, C and D hazardous location remote fixture

Key features and benefits

**Description**
- Available with single or double lamp heads
- Die-cast aluminum back plate with gasket
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Comes standard with tamper-proof screws and bit
- Universal J-box mounting
- Extreme operational temperature range: -40°F to +104°F

**Mounting**
- Surface mount
- Conduit entry 1/2" NPT

**Approval**
- CSA-US (to UL 924 standards)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D

**Warranty**
- Five-year limited warranty

---

**CLASSIFICATION**

<table>
<thead>
<tr>
<th>CLASS I</th>
<th>Groups A, B, C, D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 2</td>
<td></td>
</tr>
</tbody>
</table>

Contact your ABB sales representative to verify classification

---

**CERTIFICATIONS**

UL844
UL924
UL11065
Dimensions

Lamp selection chart and temperature code

<table>
<thead>
<tr>
<th>Lamp suffix</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Lumens</th>
<th>Replacement #</th>
<th>Temperature code</th>
<th>Max temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>6</td>
<td>4</td>
<td>200</td>
<td>580.0097-EX</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>L7</td>
<td>12</td>
<td>4</td>
<td>220</td>
<td>580.0093-EX</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>L9</td>
<td>12</td>
<td>5</td>
<td>340</td>
<td>580.0104-EX</td>
<td>T4A</td>
<td>120°C</td>
</tr>
<tr>
<td>L10</td>
<td>12</td>
<td>6</td>
<td>540</td>
<td>580.0106-EX</td>
<td>T4</td>
<td>135°C</td>
</tr>
<tr>
<td>L13</td>
<td>24</td>
<td>4</td>
<td>220</td>
<td>580.0098-EX</td>
<td>T5</td>
<td>100°C</td>
</tr>
<tr>
<td>L26</td>
<td>120</td>
<td>4</td>
<td>230</td>
<td>580.0113-EX</td>
<td>T4A</td>
<td>120°C</td>
</tr>
</tbody>
</table>

Photometric performance

<table>
<thead>
<tr>
<th>Lamp</th>
<th>7’ mounting height</th>
<th>15’ mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>39’</td>
<td>34’</td>
</tr>
<tr>
<td>L7</td>
<td>49’</td>
<td>39’</td>
</tr>
<tr>
<td>L9</td>
<td>68’</td>
<td>54’</td>
</tr>
<tr>
<td>L10</td>
<td>89’</td>
<td>80’</td>
</tr>
<tr>
<td>L13</td>
<td>51’</td>
<td>39’</td>
</tr>
</tbody>
</table>

Numbering system

Lighting fixture

<table>
<thead>
<tr>
<th>Part</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>XELR</td>
<td>Single C1D2</td>
</tr>
<tr>
<td>2</td>
<td>L1</td>
<td>6V 4W, MR16 LED</td>
</tr>
<tr>
<td>3</td>
<td>-G</td>
<td>Gray</td>
</tr>
<tr>
<td>4</td>
<td>L7</td>
<td>12V 4W, MR16 LED</td>
</tr>
<tr>
<td>5</td>
<td>L9</td>
<td>12V 5W, MR16 LED</td>
</tr>
<tr>
<td>6</td>
<td>L10</td>
<td>12V 6W, MR16 LED</td>
</tr>
<tr>
<td>7</td>
<td>L13</td>
<td>24V 4W, MR16 LED</td>
</tr>
<tr>
<td>8</td>
<td>L26</td>
<td>120V 4W, MR16 LED cw wires</td>
</tr>
</tbody>
</table>
Hazardous locations
Classification

Areas where the possibility of explosion and fire is created by the presence of flammable gases, vapors, liquids, dust, fibers or flyings.

---

**Class I – Gases, vapors or liquids**
Class I locations are those in which flammable gases, flammable liquid-produced vapors or combustible liquid-produced vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

**Typical class I locations**
- Petroleum refineries and gasoline storage and dispensing areas
- Industrial firms that use flammable liquids in dip tanks for parts cleaning or other operations
- Petrochemical companies that manufacture chemicals from gas and oil
- Dry cleaning plants where vapors from cleaning fluids can be present
- Companies that have spraying areas where they coat products with paint or plastics
- Aircraft hangars and fuel serving areas
- Utility gas plants and operations involving storage and handling of liquefied petroleum gas or natural gas

---

**Class II – Combustible dusts**
Class II locations are those that are hazardous because of the presence of combustible dust.

**Typical class II locations**
- Grain elevators, flour and feed mills
- Plants that manufacture, use or store magnesium or aluminum powders
- Plants that have chemical or metallurgical processes: producers of plastics, medicines and fireworks, etc.
- Producers of starch or candies
- Spice-grinding plants, sugar plants and cocoa plants
- Coal preparation plants and other carbon handling or processing areas

---

**Class III – Fibers and flyings**
Class III locations are those that are hazardous because of the presence of easily ignitable fibers or where materials producing combustible flyings are handled, manufactured or used, but in which such fibers/flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

**Typical class III locations**
- Textile mills, cotton gins, cotton seed mills and flax processing plants
- Any plant that shapes, pulverizes or cuts wood and creates sawdust or flyings

Fibers and flyings are not likely to be suspended in the air but can collect around machinery or on lighting fixtures and where heat, a spark or hot metal can ignite them.

---

**Division 1 – Normally hazardous**
Hazardous gases, vapors or dusts are present under normal operation conditions or during frequent repair and maintenance activity.

---

**Groups A, B, C, D**
The gases and vapors of Class I locations are broken into four groups by the code A, B, C and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammable characteristics.

---

**Groups E, F, G**
Class II dust locations groups E, F and G are classified according to the ignition temperature and the conductivity of the hazardous substance.

---

**Division 2 – Not normally hazardous**
Hazardous gases, vapors or dusts are not present under normal operating conditions.

---

**Area classification | Divisions versus zones**

<table>
<thead>
<tr>
<th>Continuous hazard</th>
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These are simplified definitions. Complete data is in the U.S. National Electrical Code (NEC) and the Canadian Electrical Code (CEC).
## Ignition temperatures

### Group classifications

**Ignition temperatures and group classifications for flammable gases and vapors**

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*Carbon Disulfide has characteristics which require safeguards beyond those required for any of the above groups*
# Ignition temperatures

Group classifications

## Ignition temperatures and group classifications for flammable gases and vapors

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