EV LED Series Explosionproof LED Luminaires

EV LED Series Luminaires are designed to provide durable and energy-efficient lighting in a variety of applications. Incandescent and HID general illumination models are available, along with a wildlife-friendly model and optional DC input voltage.

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Luminaire</th>
<th>Typical Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>100W-200W incandescent</td>
<td>Up to 85%</td>
</tr>
<tr>
<td>701</td>
<td>70W-100W HID</td>
<td></td>
</tr>
</tbody>
</table>

Applications:
- Two lumen outputs for replacement of existing HID and incandescent luminaires
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Areas requiring frequent on-and-off of lights
- Where flammable vapors, gases, ignitable dusts, fibers or flyings are present; indoors or outdoors
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Type 4X, marine, wet locations and hose down environments
- Manufacturing plants, heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting

Certifications and Compliances:
- NEC/CEC:
  - Class I, Division 1, Groups C, D
  - T6 temperature rating at 55°C
  - Class I, Zones 1 & 2, Group IIB
  - Class II, Groups E, F, G
  - Marine and wet locations, Type 4X, IP66
  - UL Listed
  - cUL Listed (certified by UL to CSA standards)

- NEC:
  - Class III, Simultaneous Presence

UL Standards:
- UL844 – Electric Fixture Hangers for Hazardous Locations
- UL1598 – Luminaire
- UL1598A – Luminaire for Installation on Marine Vessels

CSA Standard:
- C22.2 No. 137

Features:
- Instant illumination and re-strike
- Better visibility with crisp, white light
- T6 temperature rating – safely operate in the most hazardous environments
- Cold temperature operation/no warm-up required
- Easy installation – compact modular fixture attaches onto existing Champ® mounting module
- Energy-efficient – up to 85% reduction in energy used
- Provides up to 50,000 hours rated life – eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -30°C to 55°C (AC), -30°C to 40°C (DC)

Standard Materials:
- Body, mounting modules and guard – copper-free aluminum with Corro-free™ epoxy powder coat
- Globe – heat and impact-resistant glass
- Gaskets – silicone
- External hardware – stainless steel

Photometrics:
- Complete photometrics can be found at www.crouse-hinds.com/photometrics

LED System:
- High brightness light emitting diode (LED) arrays
- Color temperature: 3000K (CRI 82) and 5600K (CRI 65) options available
- Amber color available for wildlife-friendly applications
- Advanced heat sink design ensures LED does not exceed manufacturer’s temperature ratings across all specified ambient conditions
- LM-79 and LM-80 reports available

Electrical Ratings:

<table>
<thead>
<tr>
<th>Model</th>
<th>C201</th>
<th>C701</th>
<th>A201</th>
<th>C201/DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td>100-277V</td>
<td>100-277V</td>
<td>100-277V</td>
<td>10-30 VDC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Input Power</td>
<td>30W</td>
<td>30W</td>
<td>30W</td>
<td>26W</td>
</tr>
<tr>
<td>Input Amps (Max.)</td>
<td>0.30A</td>
<td>0.36A</td>
<td>0.36A</td>
<td>2.6A</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.98</td>
<td>0.99</td>
<td>0.98</td>
<td>0.99</td>
</tr>
</tbody>
</table>
EV LED Series Explosionproof LED Luminaires

Factory-sealed
Improve safety, reliability and energy efficiency

Ordering Information:

<table>
<thead>
<tr>
<th>Mounting Style</th>
<th>Cool Color Temperature</th>
<th>Warm Color Temperature</th>
<th>Wildlife Friendly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire Only</td>
<td>EVLEDCA201</td>
<td>EVLEDCA201</td>
<td>EVLEDCA201</td>
</tr>
<tr>
<td>⅝&quot; Pendant</td>
<td>EVLEDCA2C201</td>
<td>EVLEDCA2C701</td>
<td>EVLEDCA2A201</td>
</tr>
<tr>
<td>1&quot; Pendant</td>
<td>EVLEDCA3C201</td>
<td>EVLEDCA3C701</td>
<td>EVLEDCA3A201</td>
</tr>
<tr>
<td>⅝&quot; Ceiling Mount Thru Feed</td>
<td>EVLEDCA2C2C201</td>
<td>EVLEDCA2C2C701</td>
<td>EVLEDCA2A201</td>
</tr>
<tr>
<td>1&quot; Ceiling Mount Thru Feed</td>
<td>EVLEDCA2C3C201</td>
<td>EVLEDCA2C3C701</td>
<td>EVLEDCA3A201</td>
</tr>
<tr>
<td>⅝&quot; Wall Mount Thru Feed</td>
<td>EVLEDCA2C2X2C201</td>
<td>EVLEDCA2C2X2C701</td>
<td>EVLEDCA3A201</td>
</tr>
<tr>
<td>1&quot; Wall Mount Thru Feed</td>
<td>EVLEDCA2C3C201</td>
<td>EVLEDCA2C3C701</td>
<td>EVLEDCA3A201</td>
</tr>
<tr>
<td>⅝&quot; Bulkhead Mount</td>
<td>EVLEDCA2C2H2C201</td>
<td>EVLEDCA2C2H2C701</td>
<td>EVLEDCA2A201</td>
</tr>
<tr>
<td>1¼&quot; Stanchion</td>
<td>EVLEDCA2C3H4C201</td>
<td>EVLEDCA2C3H4C701</td>
<td>EVLEDCA4A201</td>
</tr>
</tbody>
</table>

To order a fixture without a guard, remove ‘1’ from the end of the catalog number (Example: EVLEDCA20 for ⅝" Pendant, No Guard).
To order a fixture with 10-30VDC Input Voltage (available on 20 Series Only), add /DC to the end of the catalog number (Example: EVLEDCA201/DC).
To order a fixture with colored inserts (available on C20 Series Only), add a "G" (for green) or "R" (for red) to the end of the catalog number (Example: EVLEDCA201G).

Family Tree:

Stanchion
- EVMJ4  1-1/4" HUB4
- EV22  3/4" HUB4
- EV33  1" HUB4

Ceiling
- EVMP2  3/4" HUB4
- EVMP3  1" HUB4

Pendant
- EVMP2  3/4" HUB4
- EVMP3  1" HUB4

Wall
- EV22 & EV87  3/4" HUB4
- EV33 & EV87  1" HUB4

Bulkhead
- EVU  3/4" HUB4
2L  EV LED Series Explosionproof
LED Luminaires

Factory-sealed
Improve safety, reliability and energy efficiency

**Photometrics:**

---

**DISTANCE TO MOUNTING HEIGHT**

Footcandle chart shows illuminance in footcandles at ground level (EVLEDC701)

---

<table>
<thead>
<tr>
<th>ZONE (DEGREES)</th>
<th>LUMENS</th>
<th>% OF LUMINAIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-30</td>
<td>451</td>
<td>20.1%</td>
</tr>
<tr>
<td>0-40</td>
<td>688</td>
<td>30.6%</td>
</tr>
<tr>
<td>0-60</td>
<td>1688</td>
<td>75.1%</td>
</tr>
<tr>
<td>0-90</td>
<td>2196</td>
<td>97.7%</td>
</tr>
<tr>
<td>90-180</td>
<td>51</td>
<td>2.3%</td>
</tr>
<tr>
<td>0-180</td>
<td>2248</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

---

**LUMEN OUTPUT FOR OTHER EV LED LUMINAIRES**

<table>
<thead>
<tr>
<th>Luminaire Series</th>
<th>System Watts</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>C201</td>
<td>30W</td>
<td>1670</td>
</tr>
<tr>
<td>A201</td>
<td>36W</td>
<td>1195</td>
</tr>
<tr>
<td>C201/DC</td>
<td>26W</td>
<td>1493</td>
</tr>
</tbody>
</table>

---

Cl. I, Div. 1, Groups C, D
Cl. I, Zone 1 & 2, Group IIB
Cl. II, Groups E, F, G
Cl. III, Simultaneous Presence

UL Listed
cUL Listed (certified by UL to CSA standards)
T6 temperature rating at 55°C
Marine and wet locations
Type 4X, IP66
EV LED Series Explosionproof
LED Luminaires

Factory-sealed
Improve safety, reliability and energy efficiency

Dimensions (inches):

Net Weight (lbs.):
EV LED with Guard 11 lbs.
Add Mounting Modules:
  Pendant 1.0 lbs.
  Ceiling 2.0 lbs.
  Wall 4.5 lbs.
  Bulkhead 2.2 lbs.
  Stanchion 2.5 lbs.