## 2L

# EV LED Series Explosionproof LED Luminaires

**Factory-sealed
Improve safety, reliability
and energy efficiency**

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

The enhanced EV LED product offering provides the same durability and reliability of a traditional EV incandescent or HID fixture, coupled with the low cost of ownership and energy efficiency of Eaton's Crouse-Hinds LED technology. High-performance LEDs and a solid state electronic driver provide light where you need it, at a fraction of the operating costs of HID and incandescent lighting technologies.

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.

## 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 & Compliances:

### NEC & CEC

- Class I, Division 1, Groups C, D
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- Marine and wet locations, Type 4X, IP66
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### NEC

- Class III, simultaneous presence

### UL Standards

- 844 Electric Fixture Hangers for Hazardous Locations
- 1598 Luminaire
- 1598A Luminaire for Installation on Marine Vessels

### CSA Standards

- C22.2 No. 137

## EV LED Benefits:

### Enhance safety and productivity

- 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

### Reduce operation and maintenance costs

- 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

### Reliable performance in any environment

- 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)
- Dark sky compliant

## 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

## Electrical Ratings:

| | C201 | C701 | A201 | C201/DC |
|---|---|---|---|---|
| **Voltage Range** | 100-277V | 100-277V | 100-277V | 10-30 VDC |
| **Frequency** | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| **Input Power** | 30W | 36W | 36W | 26W |
| **Input Amps (Max.)** | 0.30A | 0.36A | 0.36A | 2.8A |
| **Power Factor** | 0.98 | 0.99 | 0.98 | 0.99 |

## 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

**Crouse-Hinds**
by **E:T•N**

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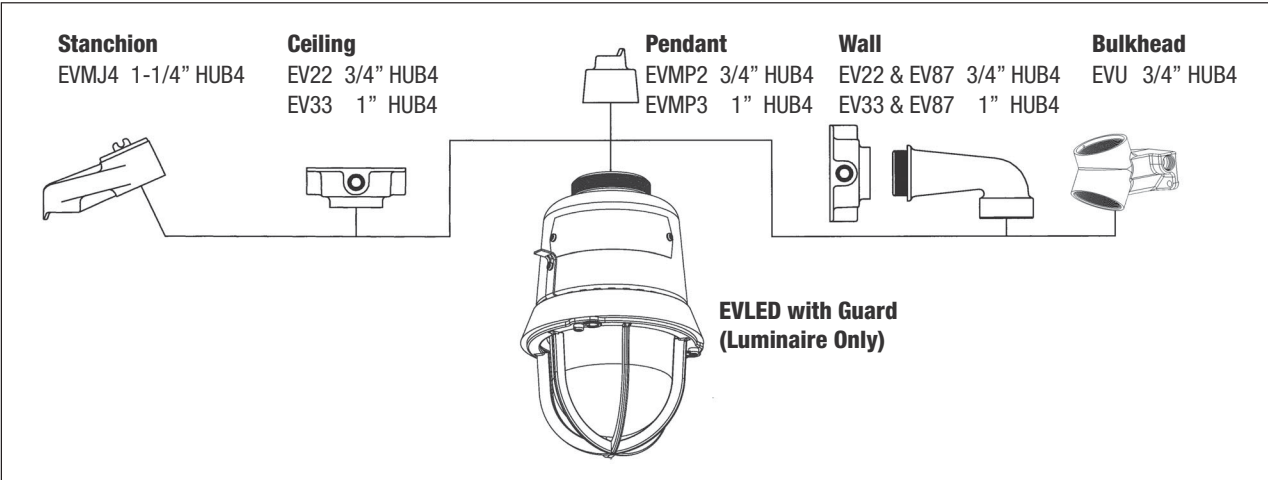Marine and wet locations
Type 4X, IP66

## Ordering Information:

| Mounting Style | Cool Color Temperature | | Warm Color Temperature | | Wildlife Friendly |
|---|---|---|---|---|---|
| | C201 | C701 | W201 | W701 | A201 |
| Luminaire Only | EVLEDC201 | EVLEDC701 | EVLEDW201 | EVLEDW701 | EVLEDA201 |
| ¾" Pendant | EVLEDA2C201 | EVLEDA2C701 | EVLEDA2W201 | EVLEDA2W701 | EVLEDA2A201 |
| 1" Pendant | EVLEDA3C201 | EVLEDA3C701 | EVLEDA3W201 | EVLEDA3W701 | EVLEDA3A201 |
| ¾" Ceiling Mount Thru Feed | EVLEDCX2C201 | EVLEDCX2C701 | EVLEDCX2W201 | EVLEDCX2W701 | EVLEDCX2A201 |
| 1" Ceiling Mount Thru Feed | EVLEDCX3C201 | EVLEDCX3C701 | EVLEDCX3W201 | EVLEDCX3W701 | EVLEDCX3A201 |
| ¾" Wall Mount Thru Feed | EVLEDBX2C201 | EVLEDBX2C701 | EVLEDBX2W201 | EVLEDBX2W701 | EVLEDBX2A201 |
| 1" Wall Mount Thru Feed | EVLEDBX3C201 | EVLEDBX3C701 | EVLEDBX3W201 | EVLEDBX3W701 | EVLEDBX3A201 |
| ¾" Bulkhead Mount | EVLEDBH2C201 | EVLEDBH2C701 | EVLEDBH2W201 | EVLEDBH2W701 | EVLEDBH2A201 |
| 1¼" Stanchion | EVLEDJ4C201 | EVLEDJ4C701 | EVLEDJ4W201 | EVLEDJ4W701 | EVLEDJ4A201 |

To order a fixture without a guard, remove '1' from the end of the catalog number (Example: EVLEDAC20 for ¾" 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: EVLEDAC201/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: EVLEDAC201G).

## Family Tree:



**Stanchion**
EVMJ4 1-1/4" HUB4

**Ceiling**
EV22 3/4" HUB4
EV33 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

EVLED with Guard
(Luminaire Only)

## Crouse-Hinds
by E·T·N

www.crouse-hinds.com    US: 1-866-764-5454    CAN: 1-800-265-0502    Copyright© 2013 Eaton's Crouse-Hinds Business    911

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### Photometrics:

**POLAR PLOT (EVLEDC701)**



180 Deg. Plane — — 270 Deg. Plane — — 0 Deg. Plane — — 90 Deg. Plane

| ZONE (DEGREES) | LUMENS | % OF LUMINAIRE |
|---|---|---|
| 0-30 | 451 | 20.1% |
| 0-40 | 688 | 30.6% |
| 0-60 | 1688 | 75.1% |
| 0-90 | 2196 | 97.7% |
| 90-180 | 51 | 2.3% |
| 0-180 | 2248 | 100.0% |

**DISTANCE TO MOUNTING HEIGHT**
Isofootcandle chart shows illuminance in footcandles at ground level
(EVLEDC701)



**ISOFOOTCANDLE CHART**
Footcandle Values for Isofootcandle Lines

A    B    C    D    E    F

| Mtg. Hgt. | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 10' | 4.00 | 2.00 | 1.00 | 0.50 | 0.25 | 0.12 |
| 12' | 2.78 | 1.39 | 0.69 | 0.35 | 0.17 | 0.09 |
| 16' | 1.56 | 0.78 | 0.39 | 0.20 | 0.10 | 0.05 |
| 20' | 1.00 | 0.50 | 0.25 | 0.12 | 0.06 | 0.03 |
| 25' | 0.64 | 0.32 | 0.16 | 0.08 | 0.04 | 0.02 |

**LUMEN OUTPUT FOR OTHER EV LED LUMINAIRES**

| Luminaire Series | System Watts | Lumens |
|---|---|---|
| C201 | 30W | 1670 |
| A201 | 36W | 1195 |
| C201/DC | 26W | 1493 |

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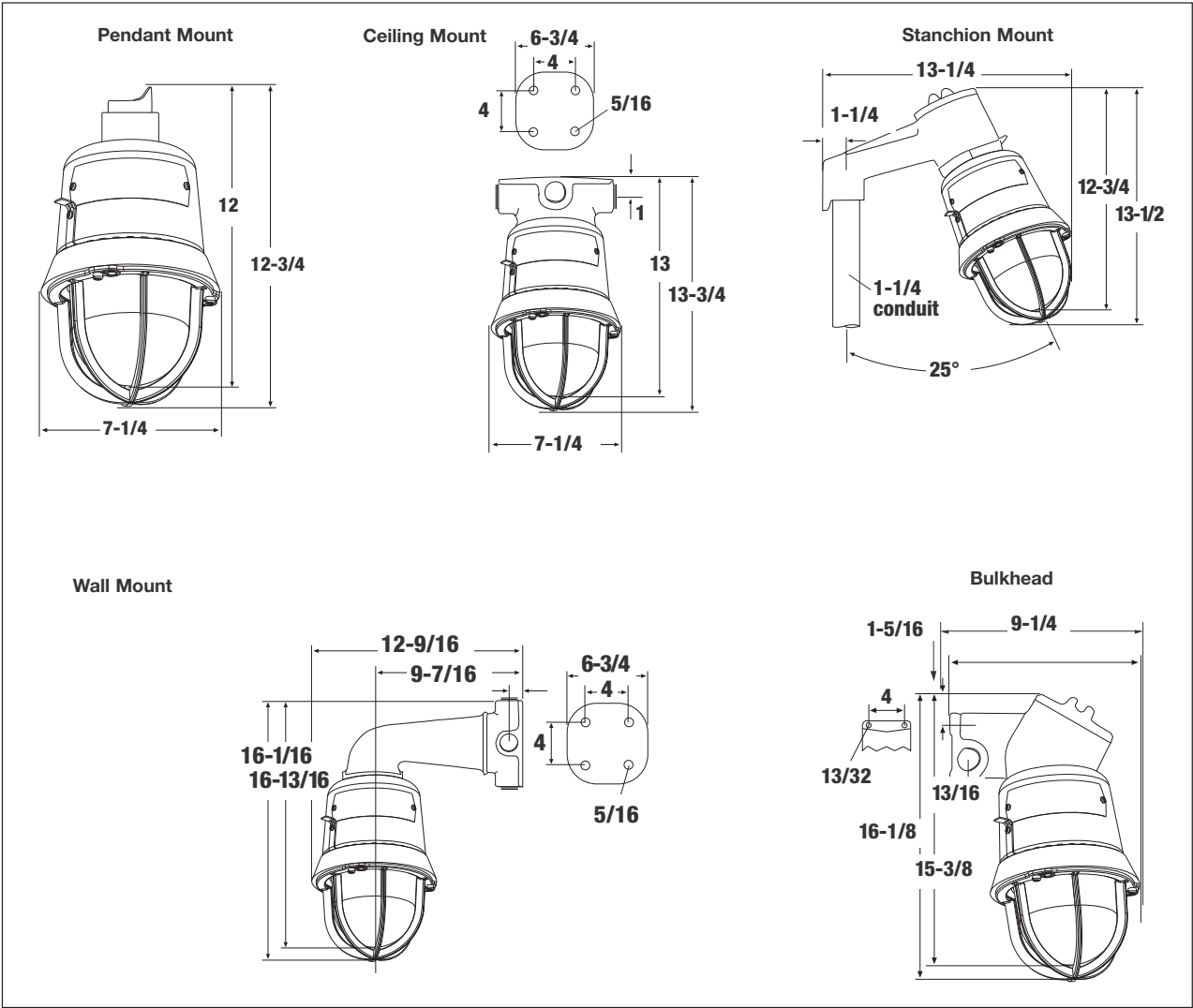# EV LED Series Explosionproof LED Luminaires

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## Dimensions (inches):



Pendant Mount — 12, 12-3/4, 7-1/4

Ceiling Mount — 6-3/4, 4, 4, 5/16, 1, 13, 13-3/4, 7-1/4

Stanchion Mount — 13-1/4, 1-1/4, 12-3/4, 13-1/2, 1-1/4 conduit, 25°

Wall Mount — 12-9/16, 9-7/16, 6-3/4, 4, 4, 16-1/16, 16-13/16, 5/16

Bulkhead — 1-5/16, 9-1/4, 4, 13/32, 13/16, 16-1/8, 15-3/8

## 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. |