Global LED lighting portfolio

CROUSE-HINDS SERIES

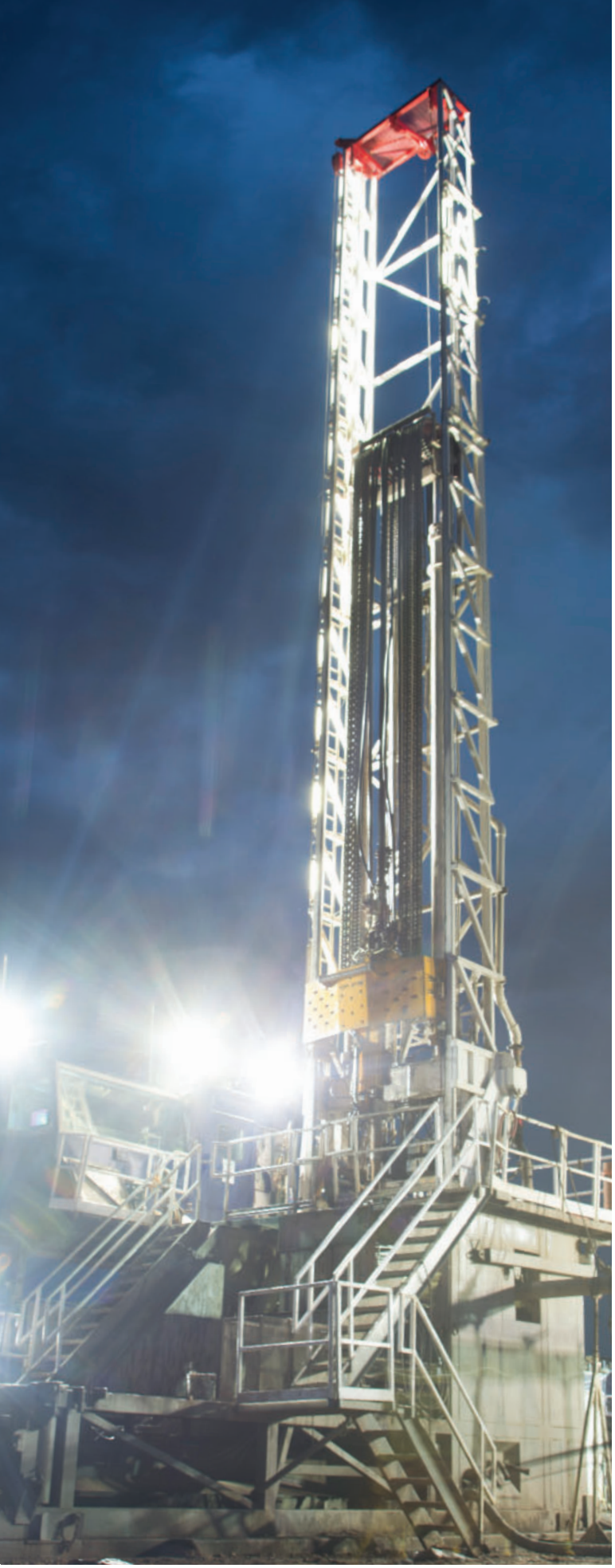
# Safe. Reliable. Efficient.

## Global LED solutions for harsh and hazardous environments



EATON

*Powering Business Worldwide*



## Global LED solutions for harsh and hazardous environments

# Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh, hazardous and industrial environments, Eaton's Crouse-Hinds Division can deliver a lighting solution that performs safely and reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

### Why LED?

**Energy efficiency**
LED average energy consumption is significantly less than traditional fluorescent and HID fixtures

**Start/restart time**
Instant illumination vs. 10 minute restrike time for HID

**Light quality**
Higher color rendering compared to fluorescent and HID

**Environmental benefits**
Mercury-free LED eliminates disposal costs and lowers energy consumption for a smaller carbon footprint

### Why Crouse-Hinds?

**Industry-best reliability**
Built to withstand a wide array of applications

**Thermal management**
Effective heat sinking ensures longer life

**Quality of light**
Custom optics designed to maximize light distribution and intensity

**Globally certified**
Designed to global specifications for NEC and IEC applications, including many local certifications for regional markets

**Serviceable drivers**
Easy access to drivers for service or replacement

# Crouse-Hinds series LED family selection guide

## Find out which solution is right for you

## Selection guide – Hazardous areas

| Area classification | Application | Product | | Equivalent light output | Lumen level | Temp Range† | Emergency battery option | DLC qualified |
|---|---|---|---|---|---|---|---|---|
| Class I, Division 2, Class II and/or Zone 2 & Zone 22 | Flood<br>cULus LISTED ABS<br>IECEx | **Champ™ FMVA** |  | 11 models - 70W to 1500W HID replacement | 3,300 - 50,500 lumens | +65°C<br>-40°C | | (select models)* |
| | High/mid bay<br>cULus LISTED ABS<br>IECEx | **Champ™ VMVL** |  | 9 models - 70W to 1000W HID replacement | 3,250 - 26,500 lumens | +65°C<br>-40°C | ✓ | (select models)* |
| | High/mid bay<br>cULus LISTED | **Champ™ VMV Connected** |  | 5 models - 70W to 400W HID replacement | 3,300 - 11,300 lumens | +65°C<br>-40°C | | (select models)* |
| | Mid/low bay<br>IECEx | **NLE** |  | 4 models - 70W to 175W HID replacement | 3,000 - 8,000 lumens | +55°C<br>-40°C | | N/A |
| | Linear<br>cULus LISTED ABS | **Champ™ MLLA** |  | 2 models - 2 lamp T5HO replacement | 3,700 - 7,900 lumens | +65°C<br>-40°C | ✓ | (select models)* |
| | Linear<br>cULus LISTED NSF | **Pauluhn™ Summit** |  | 3 models - up to 6 lamp T5HO replacement | 13,000 - 25,100 lumens | +55°C<br>-40°C | | (select models)* |
| | Linear | **CEAG nLLK15** |  | 2 models - 2x18W, 2x36W and 2x58W fluorescent replacement | 2,100 - 9,300 lumens | +50°C<br>-25°C | ✓ | N/A |
| | Linear<br>IECEx | **nHLL** |  | 4 models - 2x18W, 2x36W and 2x58W fluorescent replacement | 3,000 - 8,000 lumens | +55°C<br>-40°C | ✓ | N/A |
| | Low bay<br>cULus LISTED | **Vaporgard™ V2L/V3L** |  | 2 models - 100W to 200W incandescent & 50W-70W HID | 1,700 - 3,300 lumens | +55°C<br>-30°C | | (select models)* |
| | Emergency and Exit<br>cULus LISTED IECEx | **N2LPS, UX, Ex-Lite, Exit, Exit2** |  | N/A | N/A | Varies by family | ✓ | N/A |
| | Wallpack<br>cULus LISTED NEW! | **Champ™ CPMV** |  | 3 models - 70W to 175W HID replacement | 3,400 - 6,800 lumens | +55°C<br>-40°C | | (pending)* |

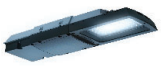
Many of our LED families also have local certifications for specific regional markets (China, Brazil, India, Russia, EAC, etc). Please contact your local Eaton Crouse-Hinds series sales rep or Customer Service center for more information.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

* Refer to www.designlights.org Qualified Products List under family models for full listing details.
Not all models are approved for all application categories.

# Crouse-Hinds series LED family selection guide

## Selection guide – Hazardous areas

| Area classification | Application | Product | Equivalent light output | Lumen level | Extreme ambients† | Emergency battery option | DLC qualified |
|---|---|---|---|---|---|---|---|
| Class I, Division 1 Class II and/or Zone 1 & Zone 21 | Floodlight<br>IECEx | **CEAG PXLED**  | 6 models - 70W to 600W HID replacement | 5,000 - 30,000 lumens | +55ºC<br>-50ºC | | N/A |
| | High/mid bay<br>cULus LISTED IECEx | **Hazard-Gard™ EVLL/nEVLL**  | 5 models - 70W to 400W HID replacement | 5,700 - 13,500 lumens | +65ºC<br>-25ºC | | DLC *(select models)** |
| | High/mid bay<br>IECEx | **HPLN**  | 8 models - 70W to 400W HID replacement | 3,400 - 24,200 lumens | +55ºC<br>-40ºC | | N/A |
| | Mid/low bay<br>IECEx | **HPL**  | 4 models - 70W to 175W HID replacement | 3,000 - 8,000 lumens | +50ºC<br>-40ºC | ✓ | N/A |
| | Linear<br>cULus LISTED ABS | **Hazard-Gard™ XPLA**  | 2 models - 2 lamp T5HO replacement | 3,800 - 8,300 lumens | +65ºC<br>-40ºC | ✓ | N/A |
| | Linear<br>IECEx | **CEAG Ex-Lin**  | 3 models - 2x18W, 2x36W and 2x58W fluorescent replacement | 2,750 - 8,120 lumens | +55ºC<br>-40ºC | | N/A |
| | Linear<br>IECEx | **CEAG eLLK LED**  | 2 models - 2x18W and 2x36W fluorescent replacement | 2,100 - 5,350 lumens | +55ºC<br>-25ºC | ✓ | N/A |
| | Linear<br>IECEx | **HLL**  | 2 models - 2x18W and 2x36W fluorescent replacement | 2,800 - 5,700 lumens | +55ºC<br>-40ºC | ✓ | N/A |
| | Linear<br>IECEx | **HRL RECESSED**  | 3 models - 2x18W, 2x36W and 4x18W fluorescent replacement | 2,700 - 5,500 lumens | +55ºC<br>-40ºC | ✓ | N/A |
| | Low bay<br>cULus LISTED | **Hazard-Gard™ EV LED**  | 2 models - 100W to 200W incandescent & 70W-100W HID replacement | 1,500 - 2,000 lumens | +55ºC<br>-30ºC | | N/A |
| | Bulkhead<br>IECEx | **AB05 LED**  | 1 model - 150W incandescent replacement | 2,000 lumens | +55ºC<br>-55ºC | | N/A |

Many of our LED families also have local certifications for specific regional markets (China, Brazil, India, Russia, EAC, etc). Please contact your local Eaton Crouse-Hinds series sales rep or Customer Service center for more information.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Find out which solution is right for you

## Selection guide – Harsh/heavy & light industrial

| Area classification | Application | Product | | Equivalent light output | Lumen level | Extreme ambients† | Emergency battery option | DLC qualified |
|---|---|---|---|---|---|---|---|---|
| Harsh/heavy industrial | Flood | **Champ™ Pro PFMA** |  | 11 models - 70W to 1500W HID replacement | 3,300 - 50,500 lumens | +65ºC -40ºC | | *(select models)** |
| | High/mid bay | **Champ™ Pro PVML** |  | 9 models - 70W to 1000W HID replacement | 3,250 - 26,500 lumens | +65ºC -40ºC | ✓ | *(select models)** |
| | High/mid bay | **Champ™ Pro PVMA** |  | 2 models - 150W to 175W HID replacement | 5,800 - 7,700 lumens | +55ºC -40ºC | | *(select models)** |
| | Mid/low bay | **PLE** |  | 4 models - 70W to 175W HID replacement | 3,000 - 8,000 lumens | +55ºC -40ºC | ✓ | N/A |
| | Linear | **Champ™ Pro PLLA** |  | 2 models - 2 lamp T5HO replacement | 3,700 - 7,900 lumens | +65ºC -40ºC | ✓ | *(select models)** |
| | Linear | **Pauluhn™ APEX** |  | 3 models - up to 6 lamp T5HO replacement | 13,000 - 25,100 lumens | +55ºC -40ºC | | *(select models)** |
| | Linear | **Pauluhn™ Intrepid** |  | 1 model - 2 lamp T8 replacement | 3,494 lumens | +50ºC -20ºC | ✓ | N/A |
| | Linear | **PLLE** |  | 4 models - 2x18W, 2x36W and 2x58W fluorescent replacement | 3,000 - 8,000 lumens | +55ºC -40ºC | ✓ | N/A |
| | Linear | **CEAG LLK15** |  | 2 models - 2x18W and 2x36W fluorescent replacement | 2,100 - 4,100 lumens | +55ºC -40ºC | ✓ | N/A |
| | Low bay | **Vaporgard™ Pro P2L/P3L** |  | 2 models - 100W to 200W incandescent; 50W-70W HID | 1,700 - 3,300 lumens | +55ºC -30ºC | | *(select models)** |
| | Wallpack | **Champ™ Pro WPMV** |  | 3 models - 70W to 175W HID replacement | 3,400 - 6,800 lumens | +55ºC -40ºC | | *(pending)** |
| Light Industrial | High bay | **Industrial high bay** |  | 5 models - 250W-1000W HID & 4-10 Lamp T5HO replacement | 16,000 - 67,000 lumens | +60ºC -40ºC | | *(select models)* |
| | High bay | **Champ® Pro PVM High Bay** |  | 2 models - 1000W to 1500W HID replacement | 60,000 - 85,000 lumens | +65ºC -40ºC | | N/A |

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details.
Not all models are approved for all application categories.

# Champ™ FMVA LED floodlights

## PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, heavy industrial chemical and petrochemical facilities, platforms, loading docks sand parking lots.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **FMVA3L** | 70W | |
| **FMVA5L** | 100W | |
| **FMVA7L** | 175W | |
| **FMVA9L** | 250W | Up to 78% reduction in energy costs and 60,000 hours of continuous operation! |
| **FMVA11L** | 320W | |
| **FMVA13L** | 400W | |
| **FMVA15L** | 500W | |
| **FMVA20L** | 600W-750W | |
| **FMVA25L** | 750W-1000W | |
| **FMVA40L** | 1,500W+ | |
| **FMVA50L** | 1,500W+ | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Division 1, Groups E, F, G; Simultaneous Presence; Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- IECEx/ATEX Certified; Zone 2/22
- CE
- DesignLights Consortium® approved for select models*

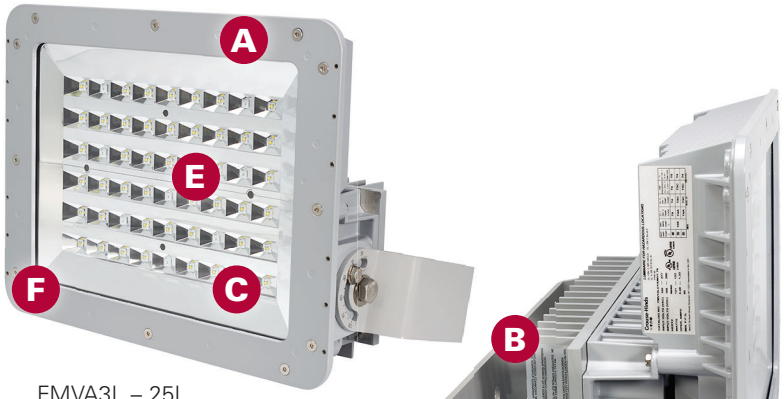
## ELECTRICAL RATINGS

- Voltages: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 340W, 411W

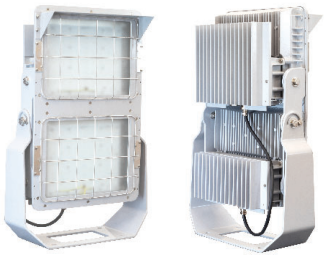
## OPTIONS AND ACCESSORIES

- Bolt-on visor; bolt-on wire guard
- Floodlight slipfitter (not available for 40L & 50L)
- Slipfitter wall mount adapter (not available for 40L & 50L)
- Diffused glass lens
- Dimmable driver
- 3x3 optic (select models)

Ex-Gas Ex-Dust Adverse +65°C -40°C




FMVA3L – 25L



FMVA40L – 50L

**Up to 6 times longer life and 78% reduction in power consumption compared to equivalent HID floodlights**

## DESIGN FEATURES

**A** **Versatile design -** Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement.

**B** **Rugged heat sink -** Designed to perform in high ambient temperatures up to +65°C and as low as -40°C. The thick walls of the castings make for a tough, rugged housing that keeps the internal driver and LED temperatures down.

**C** **High lumen output -** Up to 120 lumens per watt.

**D** **Full-frame yoke -** Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations (not available for 40L & 50L).

**E** **Multiple lens options -** Tempered and clear glass standard, polycarbonate and diffused glass options available.

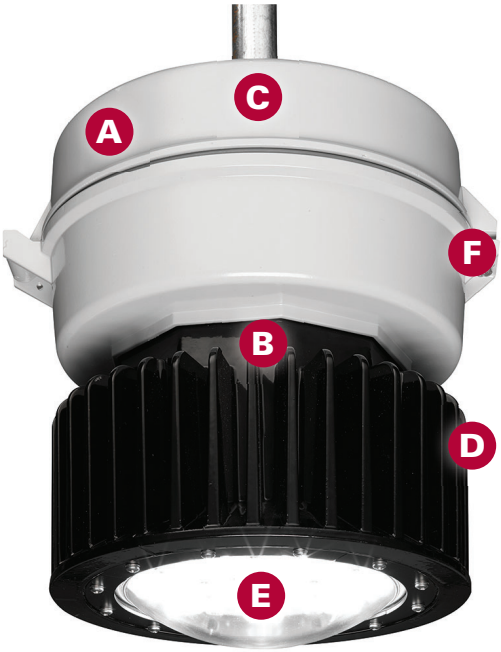
**F** **Smaller and lighter -** 25% smaller and 10 lbs (4.5 kg) lighter than previous model (3L-25L models).

NEC CEC IEC/ATEX ABS

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Champ™ VMVL LED luminaires

Ex-Gas Ex-Dust Adverse +65°C -40°C




VMVL-3 – VMVL-11



Now available with an integral battery back-up for emergency lighting applications!

## Custom Type I, III and V optics for better output, zero maintenance and reduced energy consumption

## DESIGN FEATURES

**A Modular design -** This contractor-friendly design is ideal for both retrofit and new construction applications.

**B Safe, reliable heat transfer -** Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.

**C High efficiency drivers -** Designed to provide reliable operation in even the harshest environments.

**D Type 4X rated -** The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.

**E Custom optics -** Type I, III and V optics designed to maximize light distribution and intensity.

**F Lever-lock connectors and 3-pole terminal block.**

NEC CEC IEC/ATEX ABS

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

## PRIMARY APPLICATIONS

Locations requiring continuous and consistent light levels in extreme ambient temperatures, such as manufacturing plants, heavy industrial or petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **VMVL-3** | 70W | |
| **VMVL-5** | 100W | |
| **VMVL-7** | 175W | Up to 77% reduction in energy costs and 60,000 hours of continuous operation! |
| **VMVL-9** | 250W | |
| **VMVL-11** | 320W | |
| **VMVL-13** | 400W | |
| **VMVL-17** | 400W-600W | |
| **VMVL-21** | 600W-750W | |
| **VMVL-25** | 750W-1000W | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2 nA; Zone 21 tb
- Class II, Division 1, Groups E, F, G; Class III
- Simultaneous presence
- UL844; UL1598; UL1598A; UL8750; UL50; UL50E
- cUL Listed to CSA C22.2 No. 137
- NEMA 4X, IP66, Wet Locations
- IECEx/ATEX Certified; Zone 2/21
- DesignLights Consortium® approved for select models*
- CE

## ELECTRICAL RATINGS

- Voltages: 120-277 VAC/ 108-250 VDC, 347/480 VAC
- Input power: 29W, 41W, 54W, 74W, 89W, 130W, 168W, 196W, 232W

## OPTIONS AND ACCESSORIES

- Integral back-up battery (90 minutes of emergency lighting)
- Quick clip to simplify installation
- Diffused lens, Teflon coated lens, and polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Type I, III and V optics
- Terminal block (TB6) 6-pole

# Champ™ VMV LED Connected fixtures

## PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, heavy industrial chemical and petrochemical facilities, platforms, loading docks sand parking lots.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **VMV3L** | 70W-100W | Up to 77% more efficient than standard LED light fixtures! |
| **VMV5L** | 100W-150W | |
| **VMV7L** | 150W-175W | |
| **VMV9L** | 250W-320WW | |
| **VMV11L** | 320W-400W | |

## CERTIFICATIONS & COMPLIANCES

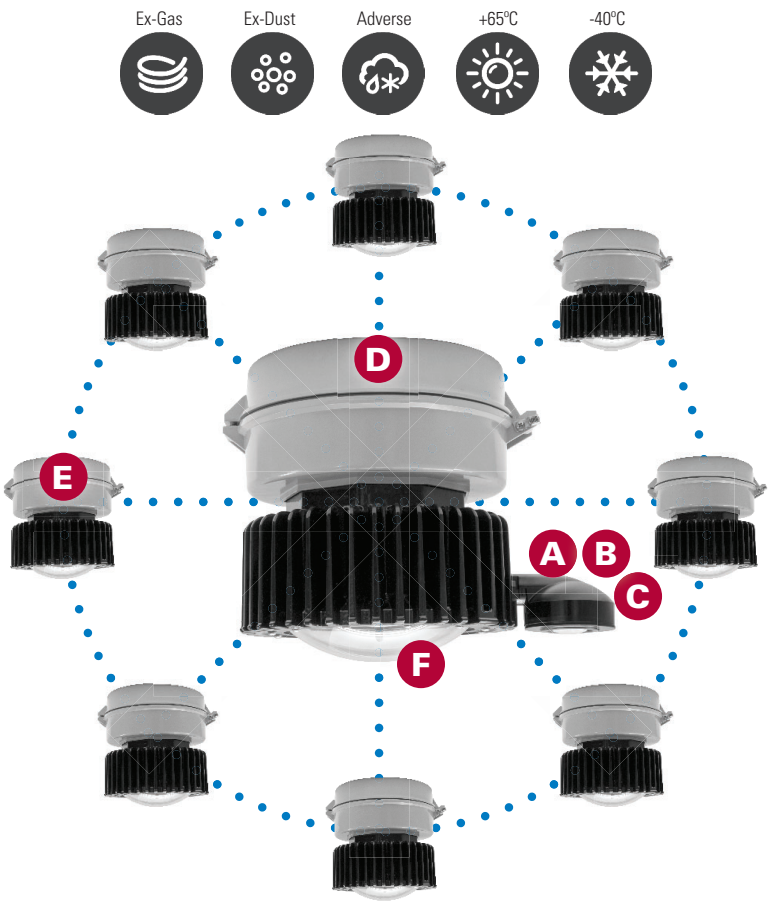
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, nA nR
- Class II, Division 1, Groups E, F, G; Simultaneous Presence; Class III
- Zone 21 tb
- Type 4X, IP66, Wet Locations, Marine Listed
- UL1598; UL1598A; UL8750; UL844; UL60079-0; UL60079-11; UL60079-15; UL60730; UL913; UL50; UL50E
- NEC NFPA 70
- R/C for sensor and controller
- cUL Listed to CSA Standard C22.2 No. 250 (for Luminaires)
- cUL Listed to CSA Standard C22.2 No. 137 (Electric Luminaires for Hazardous Locations)
- CSA 60079-11
- CSA 60079-0
- CE (pending)
- ATEX/IECEx nA, nR, ia (pending)
- DLC (pending)

## ELECTRICAL RATINGS

- Voltages: 100-277 VAC; 108-250 VDC
- Input power: 29W, 41W, 54W, 74W, 89W

## OPTIONS AND ACCESSORIES

- Pendant, cone pendant, ceiling, wall, and stanchion mounts
- Trunnion mount kit
- Safety cable
- Diffused lens; Teflon coated lens; Polycarbonate lens
- Terminal block (TB6) 6-pole




**Full lighting control at your fingertips, allowing you to maximize energy savings and minimize maintenance costs**

## DESIGN FEATURES

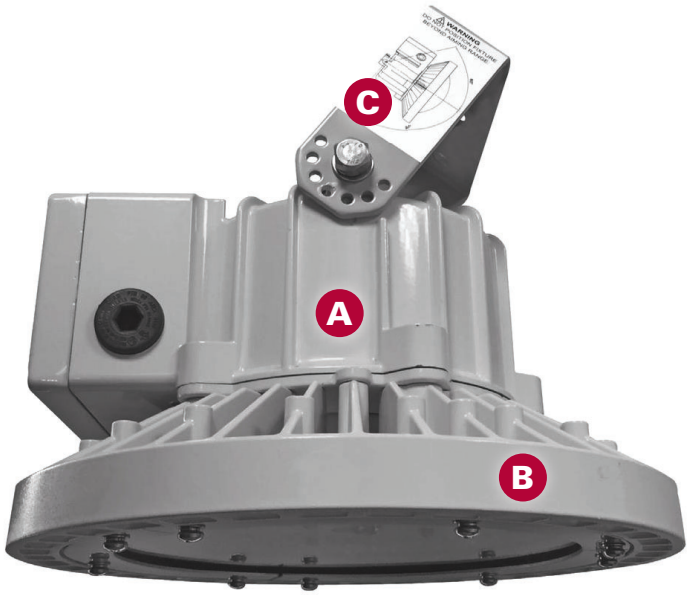
- **A** **Integral sensor -** Detects and measures area occupancy, lighting levels and ambient temperatures. Up to 40 ft. sensor range provides excellent coverage.
- **B** **Occupancy sensing -** Motion sensing to monitor occupancy of a site or for control of infrequently used areas.
- **C** **Daylight harvesting -** Photo sensing measures ambient light levels and adjusts light output accordingly, saving energy and extending fixture life.
- **D** **Scheduled ON/OFF and Dimming -** Management of time scheduling to optimize energy usage installations.
- **E** **Fixture grouping -**Tempered and clear glass standard, polycarbonate and diffused glass options available.
- **F** **Integral controller -** Send commands to multiple fixtures to control lighting levels per predefined settings. Also communicates system notifications/alarms on the fixture, sensor and radio.

NEC CEC IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# NLE LED light fixtures

Ex-Gas Ex-Dust Adverse +55ºC -40ºC




**Low profile and lightweight design, easy to install and reliable illumination in Zone 2 and 22 areas**

## DESIGN FEATURES

- **A** **Rugged design -** Highly durable aluminum housing with a tempered and impact resistant glass globe. NLE fixture has an operating temperature range of -40ºC to +55ºC.
- **B** **Lightweight and compact -** Low profile and lightweight design is ideal for compact installations.
- **C** **Ease of installation -** U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

## PRIMARY APPLICATIONS

Certified for Zone 2 and Zone 22 hazardous areas. Suitable for mid bay and low bay lighting applications in chemical, petrochemical, pharmaceutical, platforms, shipyards, loading docks, wastewater treatment and paper mills.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **NLE-3L** | 70W-100W | Up to 66% reduction in energy costs |
| **NLE-5L** | 100W-150W | |
| **NLE-7L** | 150W-175W | |
| **NLE-8L** | 150W-175W | |

## CERTIFICATIONS & COMPLIANCES

- Ex nR IIC T6/T5 Gc
- Ex tb IIIC T80˚C/T100˚C Db
- Ex tD A21 IP66 T80˚C/T100˚C
- EN 55015:2013
- EN 61000-6-4:2007/A1:2011
- EN 61000-3-2:2006/A2:2009
- EN 61000-3-3:2013
- EN 61547:2009
- EN 61000-6-2:2005/AC:2005
- IEC 61000-4-2 ed2.0(2008-12);IEC 61000-4-3 ed3.2 Consol.with am 1&2(2010-04)
- IEC 61000-4-4 ed3.0(2012-04);IEC 61000-4-5 ed2.0 (2005-11);IEC 61000-4-6 ed4.0(2013-10)
- IEC 61000-4-8 ed2.0(2009-09);IEC 61000-4-11 ed2.0 (2004-03)
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-240 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

## OPTIONS AND ACCESSORIES

- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures

# Champ™ MLLA linear LED light fixtures

## PRIMARY APPLICATIONS

Oil and gas refineries, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels outdoor and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **MLLA2** | 2 x 2 ft. T5/T8/ T12HO | Up to 67% reduction in energy costs and 60,000 hours of continuous operation! |
| **MLLA4** | 2 x 4 ft. T5/T8/ T12HO | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Division 1, Groups F, G
- UL844; UL1598; UL1598A; UL924
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations
- DesignLights Consortium® approved for select models*
- ABS design assessed

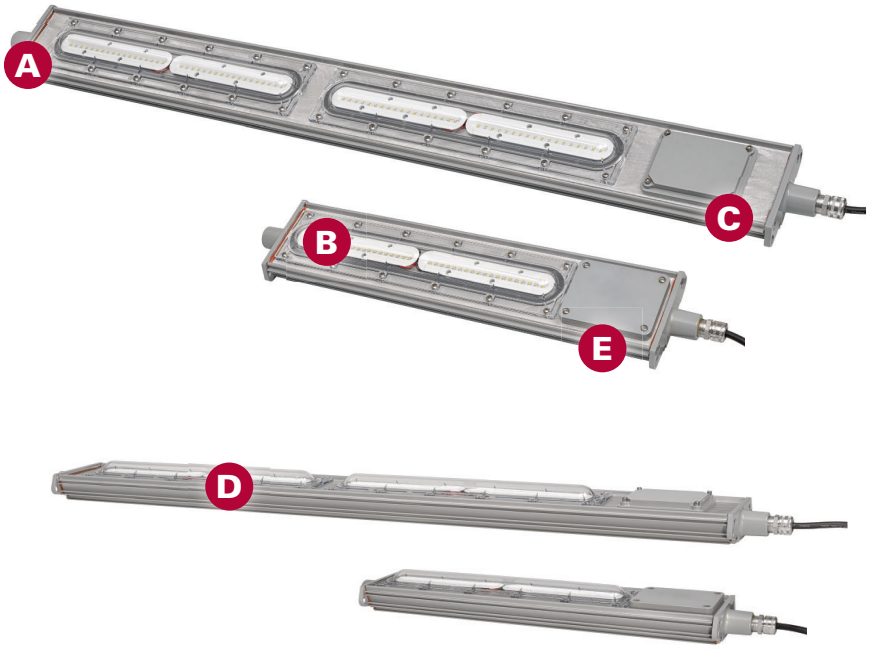
## ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 29W, 55W

## OPTIONS AND ACCESSORIES

- Available with a self-contained battery system for emergency lighting applications
- Diffused glass or polycarbonate lens
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish

Ex-Gas | Ex-Dust | Adverse | +65°C | -40°C | Emergency Battery




**Up to 67% more energy efficient than a T5HO fluorescent light and 8 times the rated life**

## DESIGN FEATURES

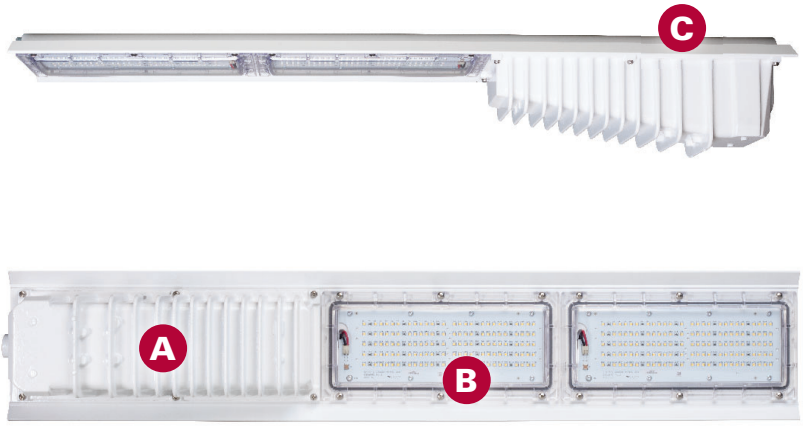
- **A** **Best-in-class efficacy -** Up to 130 lumens per watt.
- **B** **Custom optics -** Standard wide (120°) and narrow (80°) beam pattern for a wide variety of general and targeted applications.
- **C** **Built to last -** Passed 2,000 psi high pressure hose test; passed 5G vibration test; 60,000 hour lifetime @ 55°C ambient.
- **D** **Slim profile -** 2.7" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.
- **E** **Quick & easy installation -** Easy access to drivers and wiring; no custom brackets or hardware needed; Seven mounting options available.

NEC CEC ABS

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Pauluhn™ Summit LED linear light fixtures

Ex-Gas Ex-Dust Adverse +55°C -40°C




## NSF Splash Zone rated, 1500 PSI hose down tested and an angled housing to mitigate debris build-up

## PRIMARY APPLICATIONS

Replaces fluorescent T12, T8, and T5HO fixtures in hazardous rated food processing, hose down and corrosive environments.

The Summit LED was designed with food and beverage processing facilities in mind. The fixture housing is angled to mitigate debris build-up and features a food-rated epoxy powder coat finish. Plus, its robust design can withstand 1,500 PSI hose pressure for wash down applications.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **SUM13L** | 3 lamp T5HO | Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation! |
| **SUM17L** | 4 lamp T5HO | |
| **SUM25L** | 6 lamp T5HO | |

## DESIGN FEATURES

- **A** **Innovative and robust design -** Angled light fixture mitigates debris build-up. Withstands 1500 psi high pressure wash down, and food rated paint maintains safety.
- **B** **High performance optics and drivers -** 100+ lumens per watt provides highly efficient lighting. Rated life is up to 60,000 hours of maintenance-free and safe operation.
- **C** **Easily customized for application-specific performance -** Versatile mounting options with a through feed design for simplified multiple fixture wiring.

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- UL1598; UL8750, UL844
- CSA 22.2 No. 137
- NSF Splash Zone
- Type 4X; IP66

## ELECTRICAL RATINGS

- Voltages: 100-277 VAC/347-480 VAC, 127-250 VDC
- Input power: 122W, 144W, 217W

## OPTIONS AND ACCESSORIES

- Polycarbonate lens in clear or diffused
- 0-10V dimming capabilities
- Surface/swivel mount, cable/chain mount and threaded rod mount
- Available with cord assemblies and quick disconnect receptacle

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# CEAG™ nLLK15 LED linear light fixtures

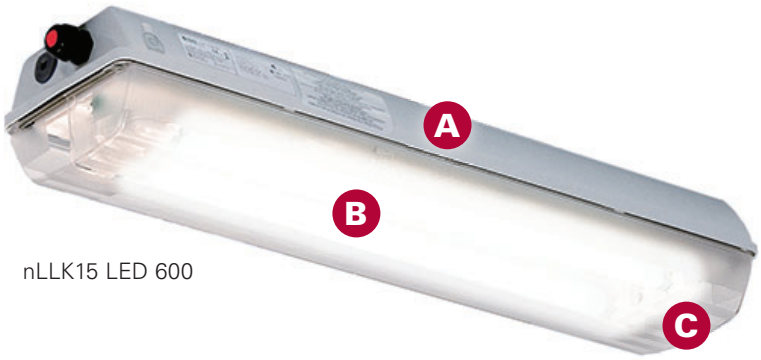



## PRIMARY APPLICATIONS

Long-life LED tubes provide general illumination, indoors or out, in Zone 2 and 22 hazardous environments around the globe. Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **nLLK15 LED 600** | 2 x 18W | Up to 77% more efficient than standard LED light fixtures! |
| **nLLK15 LED 1200** | 2 x 36W | |
| **nLLK15 LED 1500** | 2 x 58W | |




nLLK15 LED 600



nLLK15 LED 1200 and 1500

## CERTIFICATIONS & COMPLIANCES

Marking accd.to 2014/34/EU:

- Ex II 3 G Ex ec IIC T4 Gc
- Ex II 3 D Ex tc IIIC T80°C Dc
- EC-Declaration of Conformity: CCH 15 ATEX 1044
- IP66

## ELECTRICAL RATINGS

- Voltage: 220-240 VAC/DC
- Input power: 18W, 37W, 49W

## OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Self-contained battery version available
- Connection to CEAG emergency light monitoring systems possible (V-CG-S)
- Light controlling via DALI interface (DALI option)

**Crisp, bright light and durability in harsh environments provides a long-life solution in Zone 2 and 22 areas**

## DESIGN FEATURES

A **Built to last -** Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

B **High output -** Utilizes Aura UltiLED LED tubes for extreme applications, providing high efficacy and long life.

C **Emergency -** Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

Ex-Gas | Ex-Dust | Adverse | +55°C | -40°C | Emergency Battery




# nHLL LED linear light fixtures

## PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in Zone 2 and 22 hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **NHLL-2-C2-3L** | 2x18W | Up to 39% reduction in energy costs and 50,000 hours of continuous operation! |
| **NHLL-2-C2-4L** | 2x36W | |
| **NHLL-4-C2-5L** | 2x36W | |
| **NHLL-4-C2-8L** | 2x58W | |

**Rugged, low profile fixture that is easy to install and provides clear illumination in Zone 2 and 22 hazardous areas**

## DESIGN FEATURES

- **A** **Rugged design -** Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.
- **B** **Easy installation -** Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.
- **C** **Industry leading thermal management -** For safe and reliable operation over a wide temperature range.
- **D** **Retrofit friendly -** Fixture utilizes the same mounting footprint of linear fluorescent lighting.

## CERTIFICATIONS & COMPLIANCES

- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80˚C Db
- IECEx-certification of conformity: IECEx NEP 18.0003X
- EC-Type examination certificate: SEV 18 ATEX 0171X
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

## OPTIONS AND ACCESSORIES

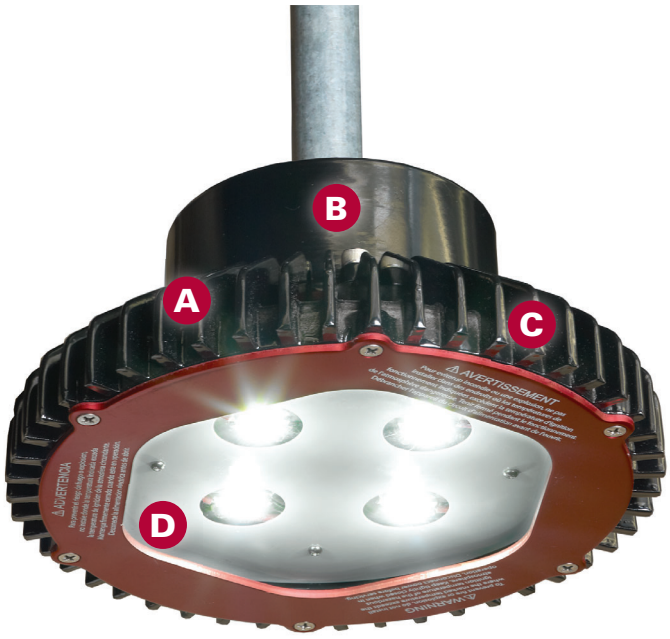
- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Vaporgard™ V2L/V3L LED luminaires




## PRIMARY APPLICATIONS

Indoor or outdoor areas with low mounting heights or confined spaces, such as tunnels and catwalks, over doorways or entries, landing areas, utility rooms, etc.

## LUMINAIRE MODEL

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| V2LM2 | 50W HID or 150-200W incandescent | Up to 85% reduction in energy costs and 50,000 hours of continuous operation! |
| V3LM2 | | |

**85% more energy-efficient than a 200 watt incandescent and over 20 times the rated life**

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups F, G
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X
- UL1598; UL1598A
- IP66
- RoHS Compliant
- ATEX/IECEX Zone2/22
- DesignLights Consortium® approved for select models*

## ELECTRICAL RATINGS

- Voltages: 120-277 VAC, 12-24 VDC
- Input power: 14W, 29W

## OPTIONS AND ACCESSORIES

- Frosted lens
- Teflon coated lens
- Brazil (CEPEL) Certification
- Color temperature: Warm white (3000K)
- 12-24 VDC Driver

## DESIGN FEATURES

**A** **Domeless reflector, low profile design -** Designed for low mounting heights and confined spaces where incandescent and HID based luminaires are too large.

**B** **Installation and replacement made simple -** Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard™ fixtures.

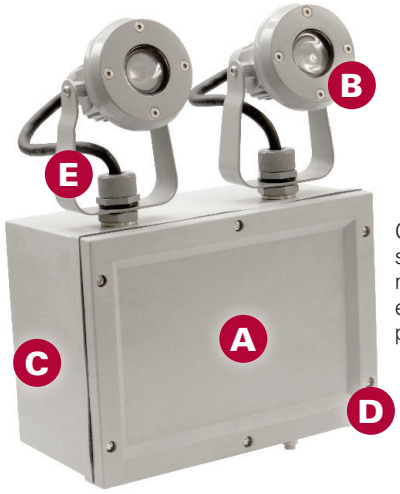
**C** **Safe, reliable heat transfer -** Heat sink engineered to safely and effectively remove heat from the LED and driver, ensuring long product life and superior T-ratings.

**D** **High power multi-die LED arrays -** Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.

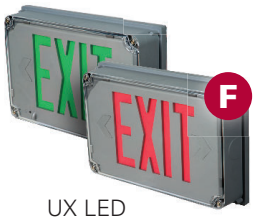
NEC CEC IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Ex-Gas | Ex-Dust | Adverse | +55ºC | Emergency Battery




Our N2LPS M2 is smaller, lighter and more energy efficient than the previous model!




UX LED




EX-LITE




EXIT / EXIT 2

## LED egress, emergency and exit lighting designed for harsh and hazardous locations

### N2LPS M2 DESIGN FEATURES

- **A** **Non-metallic, enclosed, gasketed housing -** Provides corrosion protection in the most extreme environments.
- **B** **Durable and marine rated LED lamp head assemblies -** Provide protection against water ingress, corrosion and impact.
- **C** **Nickel cadmium battery -** High temperature rated nickel cadmium battery for reliable operation up to 55°C ambient.
- **D** **Reduced maintenance costs -** Self-test, monitoring and diagnostics reduce costly maintenance checks.
- **E** **Remote mountable lamp heads -** Lamp heads can be mounted independently from the enclosure, allowing you to focus light where you need it.

### Exit Lighting DESIGN FEATURES

- **F** **Corrosion- and impact-resistant housing -** Ensures long product life and reliability.
- **G** **Nickel cadmium battery -** Premium heavy duty nickel cadmium battery with 24-hour charge and recharge time increases safety by recovering quickly from an outage.
- **H** **Multiple "EXIT" legend options -** EXIT inscriptions, pictograms, and directional arrows to meet customer preferences.

NEC CEC IEC/ATEX

* Zone ratings vary by product family. Refer to individual catalog pages for complete certifications and compliances.
† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# LED emergency and exit lights

## N2LPS M2 Emergency Lighting

### PRIMARY APPLICATIONS

Used to provide reliable illumination for egress areas during failure or interruption of power to the normal lighting system.

### LUMINAIRE MODEL

| Model number | Battery life |
|---|---|
| **N2LPSM2** | 90 minutes |

### CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups B, C, D
- Class I, Zone 2
- UL844; UL924; UL1598A
- CSA C22.2 No. 141-M1985; C22.2 No. 137-M1981
- Life Safety Code NFPA101® - Section 5-9
- Type 4X, Marine Wet Locations

### ELECTRICAL RATINGS

- Power supply input: 102-277VAC; 6W max.
- LED heads: 12VDC, 1W LED, 6W max.

## LED Exit Signs

### PRIMARY APPLICATIONS

Used for marking escape routes and exits in potentially explosive atmospheres.

### LUMINAIRE MODELS

| Model Number | Rating | Battery |
|---|---|---|
| **Ex-Lite** | Hazardous | Optional |
| **UX LED** | Industrial or Hazardous | Optional |
| **EXIT / EXIT 2** | Hazardous | Optional |

### CERTIFICATIONS & COMPLIANCES

**Ex-Lite:**

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 1
- Class II, Division 2, Groups F, G (NEC)
- IP66
- UL844; UL924; UL60079; UL1203

**UX LED:**

- Class I, Division 2, Groups A, B, C, D
- NEMA 4X, IP66, Outdoor Wet Locations
- UL50; UL844; UL924; UL1598A

**EXIT / EXIT 2**

- Ex e ib mb IIC T6/T5 Gb; Ex tb IIIC T80°C Db
- IECEx BVS 13.0017
- EC-Type Examination Certificate: BVS 09 ATEX E 029

### ELECTRICAL RATINGS

- Please refer to individual catalog pages

# Champ™ CPMV LED wallpack light fixtures

## PRIMARY APPLICATIONS

Provides a low profile solution for hazardous lighting applications. It's the ideal choice for vertical surface lighting where harsh and hazardous conditions require high quality, reliable illumination.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **CPMV3L** | 70W | Up to 70% reduction in energy costs and 60,000 hours of continuous operation! |
| **CPMV5L** | 100W | |
| **CPMV7L** | 150W-175W | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- UL844; UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations
- DesignLights Consortium® pending*

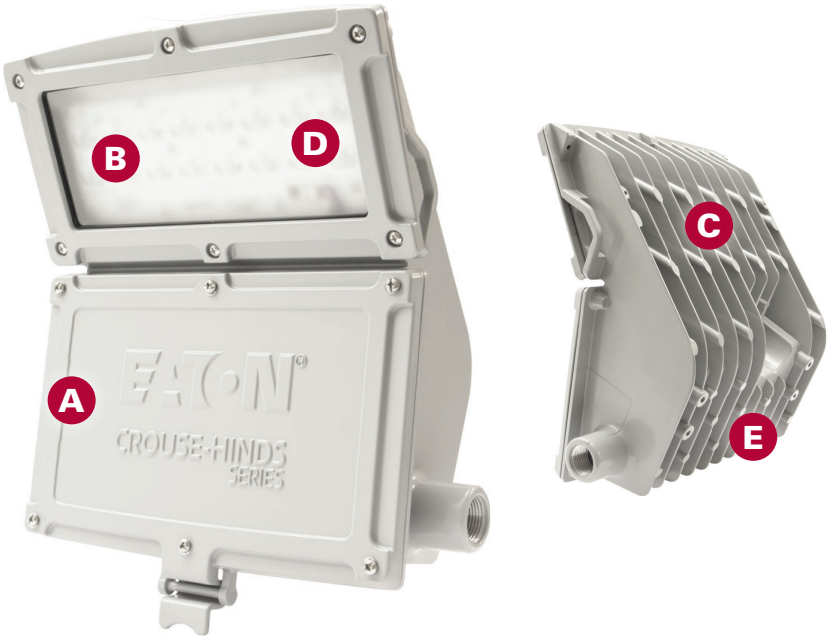
## ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 125/250 VDC
- Input power: 30W, 45W, 59W

## OPTIONS AND ACCESSORIES

- Available with a variety of lens types, including clear glass, diffused glass, clear polycarbonate and diffused polycarbonate
- Yoke mount and hub mount options are available
- Available with a photocell

Ex-Gas Ex-Dust Adverse +55°C -40°C




**Low profile, long life and high performance in Class I, Division 2 and Class II, Division 1 areas.**

## DESIGN FEATURES

- **A** **Built to last -** Rated for 60,000+ hours of operation at 55°C. Impact-resistant lens sealed from the outside environment provides ingress protection against water and dust
- **B** **High efficiency -** Up to 116 lumens per watt
- **C** **Rugged Design -** Engineered to perform in ambient temperatures from -40°C to +55°C. Die cast aluminum LED housing provides efficient thermal path to heat sink assembly, and vertical fin design facilitates air flow and dust shedding.
- **D** **Multiple optic and lens options -** Narrow and wide optics for ideal light output. Four lens styles provide flexibility for specific applications and customer preferences
- **E** **Simple installation -** Contractor-friendly design is ideal for both retrofit and new construction. Available with lever lock connectors

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.















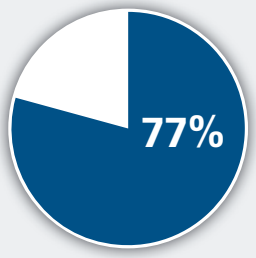




## Why are so many facilities making the switch to Crouse-Hinds series LED?

## The numbers say it all.

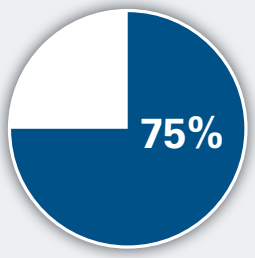
**LED vs. Conventional lighting technologies**




AVERAGE REDUCTION IN ENERGY COSTS




MAINTENANCE REDUCTION




75% LOWER TOTAL COST OF OWNERSHIP

**Assumptions:** Calculations based on overall life of the LED system. Energy cost of $.09 per kilowatt; 24 hour per day operation; labor rate of $75 each for 2 workers; average time for fixture maintenance of 1 hour.

# CEAG™ PX LED Floodlights

## PRIMARY APPLICATIONS

Ideal for ceiling and wall mounted general area lighting where flammable vapors and gases are present, along with harsh conditions including vibration, dust, moisture, corrosive atmospheres and extreme temperatures

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PXLED5L** | 100W-150W | Up to 70% reduction in energy costs and 60,000 hours of continuous operation! |
| **PXLED10L** | 175W-250W | |
| **PXLED15L** | 400W-500W | |
| **PXLED20L** | 600W-750W | |
| **PXLED25L** | 750W-1000W | |
| **PXLED30L** | 1500W | |

## CERTIFICATIONS & COMPLIANCES

Marking accd.to IECEx:
- Ex db eb op is q IIC T4 Gb
- Ex tb op is IIIC T100°C Db

Marking accd.to 2014/34/EU:
- Ex II 2 G Ex db eb op is q IIC T4 Gb
- Ex II 2 D Ex tb op is IIIC T100°C Db
- BVS 17 ATEX E 013 X
- IECEx Certificate of conformity: IECEx BVS 17.0004 X
- IP66/67

## ELECTRICAL RATINGS

- Voltages: 110-277 VAC; 127-270 VDC 24-48VDC available for PXLED 5L
- Input power: 49W, 98W, 147W, 196W, 245W, 294W

## OPTIONS AND ACCESSORIES

- Wide, narrow and asymmetric beam options
- Pole mounting




**60,000 hour rated life at 55°C ensures years of reliable performance in hazardous IEC applications**

## DESIGN FEATURES

- **A** **Modular design -** Provides six models with light output ranging from 5,000 lumens up to 32,000 lumens.
- **B** **High efficiency LEDs -** Delivers up to 110 lm/W, reducing energy costs by up to 70% over conventional lamps.
- **C** **Easy installation and maintenance -** Ex-e compartment provides quick access to the driver and terminals.
- **D** **Simple, flexible alignment -** Stainless steel swivel bracket with adjustable setting angle allows an easy alignment of the floodlight.
- **E** **Custom optics -** Wide and narrow beam pattern options distribute light where you need it most.
- **F** **Built to last -** Designed for offshore and high vibration applications.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Hazard-Gard™ EVLL LED luminaires

Ex-Gas Ex-Dust Adverse +65°C




**Energy-efficient and globally certified explosionproof workhorse for general area and high bay lighting applications**

## PRIMARY APPLICATIONS

Used for general lighting in areas where flammable or explosive vapors or gases are present, such as petroleum refineries, chemical and petrochemical plants, oil terminals, gas plants, drilling platforms and wastewater treatment plants.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **EVLL5L** | 100W-150W | Up to 62% reduction in energy costs and 60,000 hours of continuous operation! |
| **EVLL7L** | 150W-175W | |
| **EVLL9L** | 175W-250W | |
| **EVLL11L** | 250W-320W | |
| **EVLL13L** | 320W-400W | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 1, Groups B, C, D
- Class I, Zone 1, Groups IIB + $H_2$, IIB, IIA
- Class II, Groups E, F, G
- Class III, Simultaneous Presence
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X, IP66, Wet Locations
- CE
- ATEX/IECEX, Zone 1/21

## ELECTRICAL RATINGS

- Voltages: 120-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 56W, 85W, 112W, 115W, 149W

## OPTIONS AND ACCESSORIES

- Trunnion mount
- Guard
- Color temperature: warm (3000K) or cool (5000K)
- Pendant, ceiling, stanchion and wall mounts
- Epoxy painted

## DESIGN FEATURES

**A** **Retrofittable to install base -** Adapter available for connection to existing Hazard•Gard® EVI, EVLP and EVM modules.

**B** **Quick-connect design -** Install and wire the mounting module, then simply screw in the luminaire.

**C** **Factory sealed -** No external sealing fittings required in Groups B, C and D.

**D** **60,000 hours rated life -** Eliminates the need for frequent lamp replacement.

**E** **Shock- and vibration-resistant -** The LED housing is constructed of durable die cast aluminum, providing efficient long life.

NEC CEC IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# HPLN LED light fixtures







**A long-life, energy-efficient luminaire for general area lighting in hazardous IEC applications**

## PRIMARY APPLICATIONS

Suitable for Zone 1 and Zone 2 Ex-Gas and Zone 21/22 Ex-Dust hazardous areas, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyards, electric power, loading docks, wastewater treatment plants and paper mills.

## LUMINAIRE MODELS

| Model Number | Equivalent HID Luminaire | Typical Energy Savings/ Lifetime |
|---|---|---|
| **HPLN-3L** | 70W-100W | |
| **HPLN-5L** | 100W-150W | |
| **HPLN-7L** | 150W-175W | |
| **HPLN-9L** | 175W-250W | Up to 60% reduction in energy costs |
| **HPLN-11L** | 250W-450W | |
| **HPLN-15L** | 400W | |
| **HPLN-21L** | 600W | |
| **HPLN-25L** | 600W-1000W | |

## CERTIFICATIONS & COMPLIANCES

Marking accd.to IECEx:
- Ex db eb mb op is IIC T4 Gb
- Ex tb op is IIIC T95˚C Db

Marking accd.to 2014/34/EU:
- II 2 G Ex db eb mb op is IIC T4 Gb
- II 2 D Ex tb op is IIIC T95˚C Db

Certificate No.
- IECEx PRE 19.0058X
- Presafe 19 ATEX 09286X

Permissible ambient temperature
- -40°C up to +55°C

Degree of protection accd. to EN60529
- IP66

## ELECTRICAL RATINGS

- Voltage: 100-240 VAC 50/60Hz; 120-250 VDC

## OPTIONS AND ACCESSORIES

- Cool white (5,700K) and warm white (3,000K) are available
- Frosted lens reduces glare on critical processes
- Mounting: Pendant, ceiling, wall, stanchion, trunnion

## DESIGN FEATURES

**A** **Rugged design -** Copper-free aluminum housing, tempered and impact resistant glass globe. Outstanding corrosion proof capability (C5M-IEC, UL1598A-UL) and anti vibration design

**B** **Surge Protection -** 4 kV protection as standard, but option up to 10kV surge protection for offshore applications

**C** **Robust heat sink -** Innovative heat sink facilitates air flow, ensuring long life in extreme environments

**D** **Installation flexibility -** Stanchion, pendant, ceiling, wall and trunnion mount options allow for easy installation in a variety of applications

**E** **Superior optical performance -** Cool white 5700K & warm white 3000K models available. Narrow (25˚) / medium (60˚) / wide (120˚) beam optics available to distribute the light where it is needed the most

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

Ex-Gas | Ex-Dust | Adverse | +50°C | -40°C | Emergency Battery




# HPL LED light fixtures

## PRIMARY APPLICATIONS

Certified for Zone 1, 2, 21 and 22 hazardous areas. Suitable for mid bay and low bay lighting applications in chemical, petrochemical, pharmaceutical, platforms, shipyards, loading docks, wastewater treatment and paper mills.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **HPL-3L** | 70W-100W | |
| **HPL-5L** | 100W-150W | Up to 66% reduction in energy costs |
| **HPL-7L** | 150W-175W | |
| **HPL-8L** | 150W-175W | |

**Energy-efficient and globally certified explosionproof workhorse for general area and low/mid bay lighting applications**

## DESIGN FEATURES

- **A** **Rugged design -** Highly durable aluminum housing with a tempered and impact resistant glass globe. HPL fixture has an operating temperature range of -40°C to +50°C.
- **B** **Lightweight and compact -** Low profile and lightweight design is ideal for compact installations.
- **C** **Ease of installation -** U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.

## CERTIFICATIONS & COMPLIANCES

- Ex db e mb IIC T6 Gb
- Ex tb IIIC T80˚C Db IP66
- Ex tD A21 IP66 T80˚C
- IECEx-Certification of Conformity: IECEx CQM 15.0054X
- EC-Type Examination Certificate: EPT 16 ATEX 2405X
- GB Certificate: GYJ15.1157X
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-247 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

## OPTIONS AND ACCESSORIES

- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures
- Emergency back-up battery available

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Hazard-Gard™ XPLA linear LED luminaires

## PRIMARY APPLICATIONS

Ideal for Class I, Division 1 and Class II, Division 1 areas in wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **XPLA2** | 2 x 2 ft. T5/T8/ T12HO | Up to 53% reduction in energy costs and 60,000 hours of continuous operation! |
| **XPLA4** | 2 x 4 ft. T5/T8/ T12HO | |

## CERTIFICATIONS & COMPLIANCES

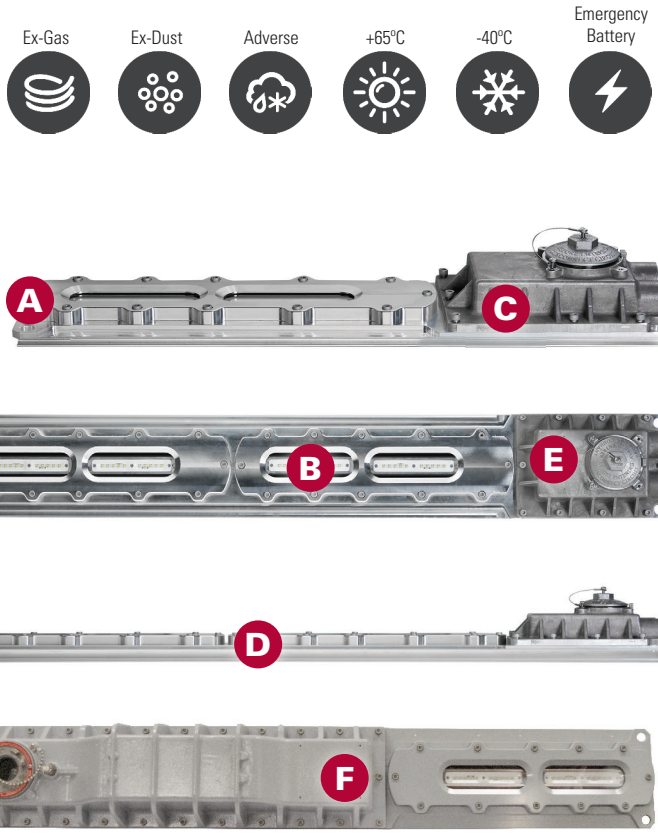
- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations, Paint spray rated

## ELECTRICAL RATINGS

- Voltage: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 34W, 63W, 78W (EM model)

## OPTIONS AND ACCESSORIES

- Glass or diffused glass lens
- Epoxy paint finish
- Flush, pole and swivel/surface mounts
- Polycarbonate paint spray lens shield kit
- Safety chain kit




XPLA with emergency battery

**Up to 53% more energy efficient than a T5HO fluorescent light and 8 times the rated life**

## DESIGN FEATURES

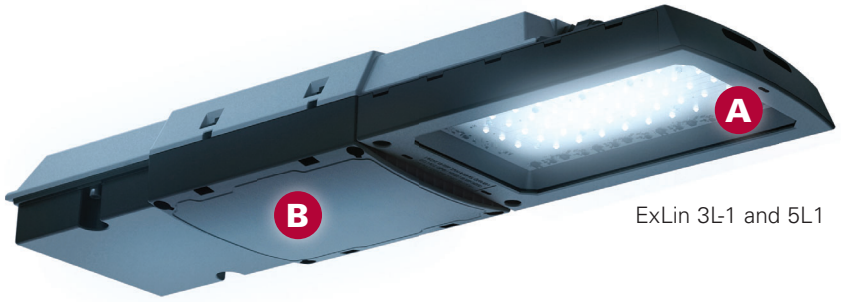
- **A** **High efficacy -** Up to 130 lumens per watt.
- **B** **Custom optics -** Standard wide (120°) beam spread maximizes illumination on wall panels.
- **C** **Built to last -** 2,000 psi high pressure hose down rated; passed 5G vibration test; 60,000 hour lifetime @ 55°C ambient.
- **D** **Slim profile -** Less than 5" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.
- **E** **Quick & easy installation -** Easy access to drivers and wiring; no custom brackets or hardware needed; Two mounting options available.
- **F** **Emergency battery back-up -** 90-minute minimum run time at 700 lumens in emergency mode.

NEC CEC

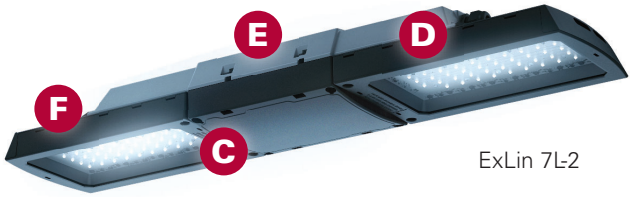
† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# CEAG™ ExLin LED linear light fixtures

Ex-Gas Adverse +55°C -40°C



ExLin 3L-1 and 5L1



ExLin 7L-2

## State-of-the-art LED technology with optimized thermal management and a time-tested, field-proven enclosure

## DESIGN FEATURES

- **A** **Superior performance and efficiency -** Up to 120 LM/W provides up to 40% energy efficiency compared to traditional fluorescent fixtures.
- **B** **Built to last -** Rated life of 100,000 hours at 25°C based on L90C5 provides long term, low-maintenance operation.
- **C** **Optimized light distribution -** Standard, narrow and wide beam optics optimize light distribution, providing light where the customer needs it with the potential to reduce the number of fixtures required.
- **D** **Low profile and lightweight -** Decreases footprint in confined applications and reduces installation effort while still providing IK10.
- **E** **Drop-in mounting capability to eLLK fluorescent -** Same fixing point as eLLK 2x18W fixtures and a mounting kit is available allowing for easy replacement of 2x36W and 2x58W without changing cables.
- **F** **Optimized for offshore applications -** Designed to reduce water condensation for high humidity environments and increase reliability in corrosive environments.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

## PRIMARY APPLICATIONS

Approved for use in Zone 1 and 2 hazardous areas, ExLin provides longer life, improved efficiency and superior performance with a competitive payback versus fluorescent fixtures. Designed to provide general illumination where moisture, dust, corrosion and extreme temperature exist.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **ExLin 3L-1** | 2 x 18W | Up to 40% reduction in energy costs and a rated life of 100,000 hours at 25°C |
| **ExLin 5L-1** | 2 x 36W | |
| **ExLin 5L-2** | 2 x 36W | |
| **ExLin 7L-2** | 2 x 58W | |

## CERTIFICATIONS & COMPLIANCES

Marking accd.to IECEx:
- Ex eb ib op is q IIC T4 Gb
- Ex tb op is IIIC T80/110°C Db

Marking accd.to 2014/34/EU:
- Ex II 2G Ex eb ib op is q IIC T4/T5 Gb
- Ex II 2D Ex tb op is IIIC T80/110°C Db
- IECEx-Certification of Conformity: IECEx BVS 18.0028X
- EC-Type Examination Certificate: BVS 18 ATEX E 037 X
- IP66/67

## ELECTRICAL RATINGS

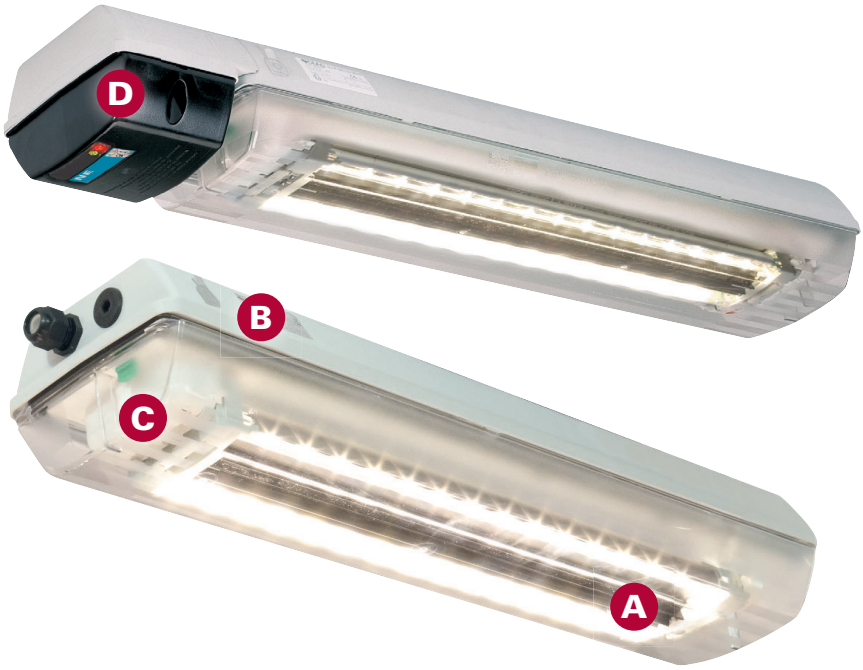
- Voltages: 110-277 VAC/DC
- Input power: 22W, 44W, 67W

## OPTIONS AND ACCESSORIES

- Clear or diffused lens
- Standard, narrow, and wide beam options
- Pole adapter
- Available with V-CG-S emergency lighting technology, allowing the fixtures to be connected to CEAG's central emergency lighting system

# CEAG™ eLLK LED linear light fixtures




## PRIMARY APPLICATIONS

Designed for use in outdoor and indoor hazardous and non-hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical plants, oil refineries and industrial locations.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Battery | Typical energy savings/ lifetime |
|---|---|---|---|
| **eLLK LED 400A** | 2x18W fluorescent | No | Up to 20% reduction in energy costs and 60,000 hours of continuous operation! |
| **eLLK LED 800A** | 2x36W fluorescent | No | |
| **eLLK LED 400A NE** | 2x18W fluorescent | Yes | |
| **eLLK LED 800A NE** | 2x36W fluorescent | Yes | |

**Saves on energy consumption and easily retrofit existing luminaires in hazardous and corrosive environments**

## CERTIFICATIONS & COMPLIANCES

- Ex II 2G Ex de mb IIC T4 Gb
- Ex II 2D Ex tb IIIC T80 °C Db IP66
- BVS 09 ATEX E 034
- Ex de mb IIC T4 Gb/Ex tb IIIC T80 °C
- IECEx BVS 09.0033

## ELECTRICAL RATINGS

- Voltages: 110-254 VAC, 110-250 VDC; 50/60 Hz
- Input power: 2x13W, 2x26W

## OPTIONS AND ACCESSORIES

- LED module 400A (2x13W) for eLLK/M 92 018/18
- LED module 800A (2x26W) for eLLK/M 92 036/36
- Self contained battery system (NE models)
- Available with V-CG-S module for monitoring with an Eaton central battery system

## DESIGN FEATURES

**A** **High output -** Illuminance (lux/Fc) equivalent to related fluorescent tubes at measurement plane.

**B** **Non-metallic design -** Fiberglass-reinforced polyester construction for extreme durability.

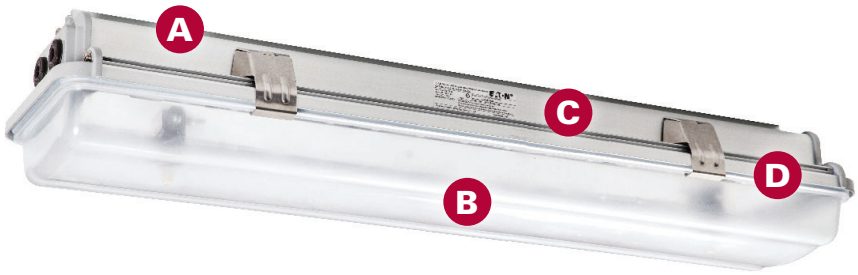
**C** **Retrofit friendly -** Retrofits to existing eLLK/nLLK fixtures with existing EVG 09 ballast or as a complete unit.

**D** **Emergency -** eLLK NE models include a 7 Ah-NC battery with LED display and monitoring via microprocessor. Provides 1.5 or 3 hours of emergency lighting.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

Ex-Gas | Ex-Dust | Adverse | +55°C | -40°C | Emergency Battery






# HLL LED linear light fixtures

## PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover, providing extreme durability and reliability in Zone 1, 2, 21 and 22 hazardous areas. Designed for use in hazardous areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **HLL-2-3L** | 2x18W | Up to 39% reduction in energy costs and 50,000 hours of continuous operation! |
| **HLL-4-5L** | 2x36W | |

**Rugged, low profile fixture that is easy to install and provides clear illumination in Zone 1, 2, 21 and 22 hazardous areas**

## DESIGN FEATURES

- **A** **Rugged design -** Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.
- **B** **Easy installation -** Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.
- **C** **Industry leading thermal management -** For safe and reliable operation over a wide temperature range.
- **D** **Retrofit friendly -** Fixture utilizes the same mounting footprint of linear fluorescent lighting.

## CERTIFICATIONS & COMPLIANCES

- Ex db ec IIC T5/T6 Gc
- Ex ec IIC T5/T6 Gc
- Ex db ec ib mb IIC T5/T6 Gc
- Ex ec ib mb IIC T5/T6 Gc
- Ex tb IIIC T80˚C Db
- IECEx-certification of conformity: IECEx CQM 16.0030X
- EC-Type examination certificate: CML 17ATEX3305X
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-240 VAC, 108-250 VDC
- Input power: 40W, 80W

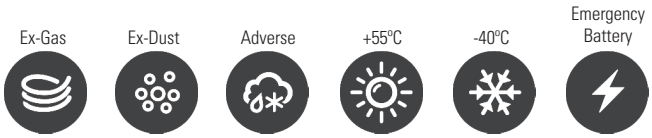
## OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# HRL LED recessed linear light fixtures







## PRIMARY APPLICATIONS

Engineered to provide maintenance-free illumination in the most demanding environments, along with a competitive payback vs. fluorescent fixtures. Available in three common sizes, the HRL is certified for use in Zones 1, 21, 2, and 22 hazardous areas, as well as Class I, Division 2 locations.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Battery | Typical energy savings/ lifetime |
|---|---|---|---|
| **HRL3060** | 2x18W fluorescent | Yes | Up to 20% reduction in energy costs and 55,000 hours of continuous operation! |
| **HRL3012** | 2x36W fluorescent | Yes | |
| **HRL6060** | 4x18W fluorescent | Yes | |

**State-of-the-art LED technology and optimized thermal management extend service life in extreme environments**

## CERTIFICATIONS & COMPLIANCES

- Ⓔx II 2G Ex de mb IIC T4 Gb
- Ⓔx II 2D Ex tb IIIC T80 °C Db IP66
- BVS 09 ATEX E 034
- Ex de mb IIC T4 Gb/Ex tb IIIC T80 °C
- IECEx BVS 09.0033

## ELECTRICAL RATINGS

- Voltages: 110-254 VAC, 110-250 VDC; 50/60 Hz
- Input power: 2x13W, 2x26W

## OPTIONS AND ACCESSORIES

- LED module 400A (2x13W) for eLLK/M 92 018/18
- LED module 800A (2x26W) for eLLK/M 92 036/36
- Self contained battery system (NE models)
- Available with V-CG-S module for monitoring with an Eaton central battery system

## DESIGN FEATURES

Ⓐ **High output -** Illuminance (lux/Fc) equivalent to related fluorescent tubes at measurement plane.

Ⓑ **Non-metallic design -** Fiberglass-reinforced polyester construction for extreme durability.

Ⓒ **Retrofit friendly -** Retrofits to existing eLLK/nLLK fixtures with existing EVG 09 ballast or as a complete unit.

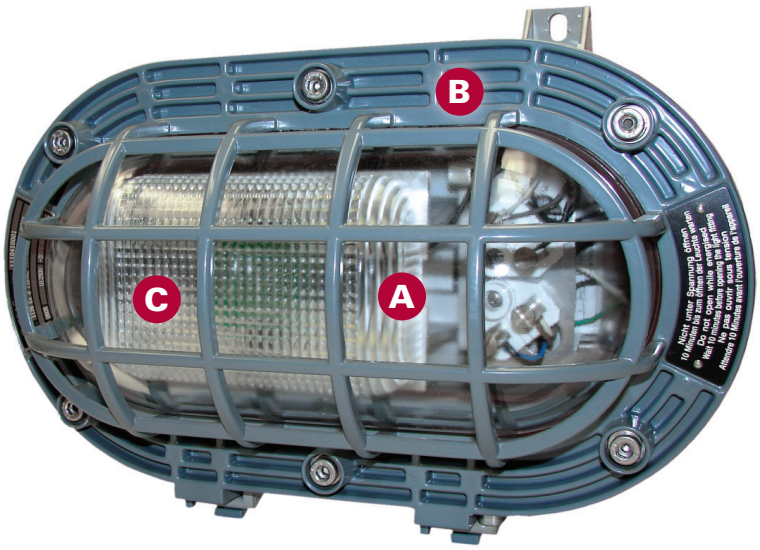
Ⓓ **Emergency -** eLLK NE models include a 7 Ah-NC battery with LED display and monitoring via microprocessor. Provides 1.5 or 3 hours of emergency lighting.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# AB05 LED marine wallpack

Ex-Gas Ex-Dust Adverse +55°C -55°C




**Up to 6 times longer life and 65% reduction in power consumption compared to equivalent HID floodlights**

## PRIMARY APPLICATIONS

Perfect for confined or restricted spaces, such as stairwells, storage areas and corridors that require consistent light.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **AB05** | 150W incandescent | Up to 80% |
| | 60,000 hours of continuous operation! | |

## CERTIFICATIONS & COMPLIANCES

- Zone 1, 2, 21, 22
- Ex d IIB T6
- Ex II 2 G Ex d IIB T6/T5 Gb
- Ex II 2 D Ex tb IIIC T80°C/T100°C Db
- Certificate BVS 09 ATEX E 014 X
- IP66

## ELECTRICAL RATINGS

- Voltage: 120-240 VAC
- Input power: 32W

## DESIGN FEATURES

A **Shock- and vibration-resistant -** Durable vibration-resistant LEDs decrease maintenance costs.

B **Lightweight enclosure -** Robust light alloy enclosure weighs only 7.0 kg, allowing the user to mount in areas where the available space is restricted, and making installation fast and easy.

C **Instant illumination and restrike -** Decreases facility downtime; no warm-up time required.

IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Hazard-Gard™ EV LED light fixtures

## PRIMARY APPLICATIONS

Indoors or outdoors in process and storage areas, corridors, bridges and stairs.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **EVLEDC201** | 100W-200W incandescent | Up to 85% reduction in energy costs and 50,000 hours of continuous operation! |
| **EVLEDC701** | 70W-100W HID | |

## CERTIFICATIONS & COMPLIANCES

- Class I, Division 1, Groups C, D
- Class I, Zone 1 & 2, Group IIB
- Class II, Division 1, Groups E, F, G
- Class III; Simultaneous Presence
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- Type 4X, IP66

## ELECTRICAL RATINGS

- Voltages: 100-277 VAC, 10-30 VDC
- Input power: 15W, 30W

## OPTIONS AND ACCESSORIES

- Amber color for wildlife-friendly applications
- Color temperature: cool white (3000K) and warm white (5600K)
- 24-27 VDC







**Up to 85% reduction in energy costs and 50,000 hours of continuous operation**

## DESIGN FEATURES

A **Retrofittable mounting modules -** Compatible with existing EV Series mounting modules, which reduces retrofit installation time and materials costs, and makes new construction installation easy.

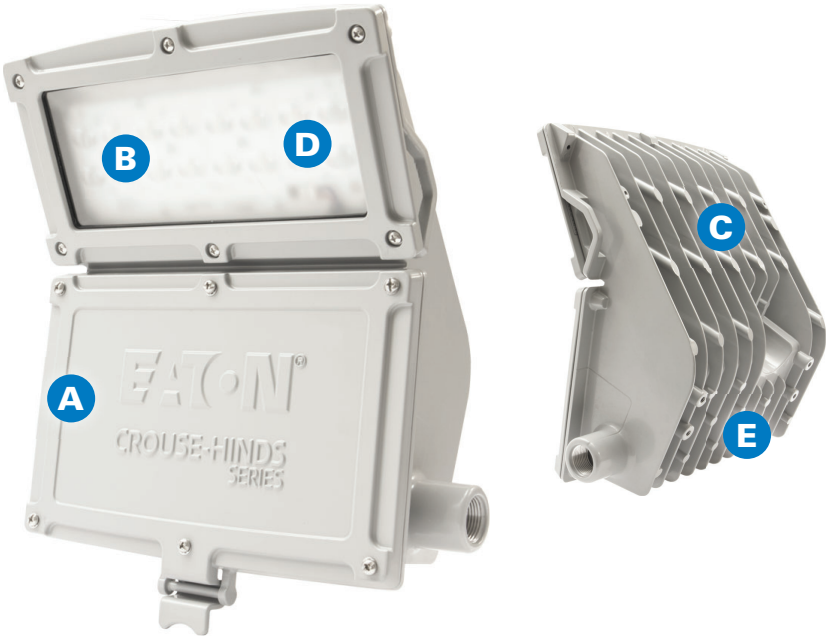
B **20 times longer life than incandescents in tough-to-maintain Division 1 locations.**

NEC CEC IEC/ATEX

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Champ™ Pro WPMV LED wallpack light fixtures

Adverse +55°C -40°C




**Industry-leading performance and reliability for outdoor area and site lighting in industrial locations**

## PRIMARY APPLICATIONS

Provides a low profile solution for industrial lighting applications. It's the ideal choice for vertical surface lighting where harsh conditions require high quality, reliable illumination.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **WPMV3L** | 70W | Up to 70% reduction in energy costs and 60,000 hours of continuous operation! |
| **WPMV5L** | 100W | |
| **WPMV7L** | 150W-175W | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- NEMA 4X, IP66, Marine and Wet Locations
- DesignLights Consortium® pending*

## ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 125/250 VDC
- Input power: 30W, 45W, 59W

## OPTIONS AND ACCESSORIES

- Available with a variety of lens types, including clear glass, diffused glass, clear polycarbonate and diffused polycarbonate
- Yoke mount and hub mount options are available
- Available with a photocell

## DESIGN FEATURES

**A** **Built to last -** Rated for 60,000+ hours of operation at 55°C. Impact-resistant lens sealed from the outside environment provides ingress protection against water and dust

**B** **High efficiency -** Up to 116 lumens per watt

**C** **Rugged Design -** Engineered to perform in ambient temperatures from -40°C to +55°C. Die cast aluminum LED housing provides efficient thermal path to heat sink assembly, and vertical fin design facilitates air flow and dust shedding.

**D** **Multiple optic and lens options -** Narrow and wide optics for ideal light output. Four lens styles provide flexibility for specific applications and customer preferences

**E** **Simple installation -** Contractor-friendly design is ideal for both retrofit and new construction. Available with lever lock connectors

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Champ™ Pro PFMA LED floodlights

## PRIMARY APPLICATIONS

Indoor and outdoor area lighting in manufacturing plants, mine sites and processing areas, platforms, loading docks and parking areas.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PFMA3L** | 70W | |
| **PFMA5L** | 100W | |
| **PFMA7L** | 175W | |
| **PFMA9L** | 250W | Up to 78% reduction in energy costs and 60,000 hours of continuous operation! |
| **PFMA11L** | 320W | |
| **PFMA13L** | 400W | |
| **PFMA15L** | 500W | |
| **PFMA20L** | 600W-750W | |
| **PFMA25L** | 750W-1000W | |
| **PFMA40L** | 1,500W+ | |
| **PFMA50L** | 1,500W+ | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL8750
- cUL
- Type 4X
- IP66
- DesignLights Consortium® approved for select models*
- UL approved up to 65°C ambient (3L-15L)
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC Standards: IEC 60598; CE

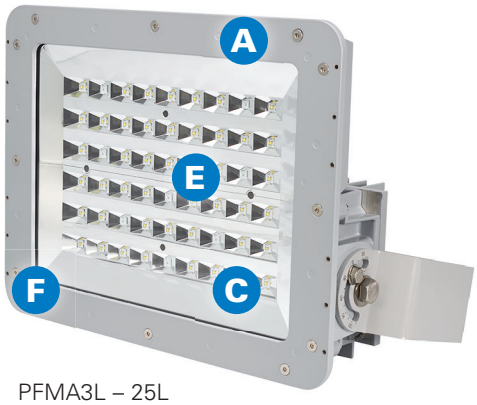
## ELECTRICAL RATINGS

- Voltages: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 340W, 411W

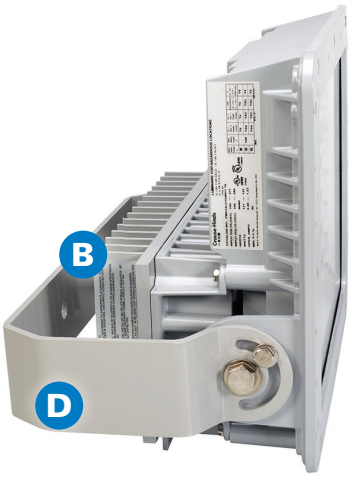
## OPTIONS AND ACCESSORIES

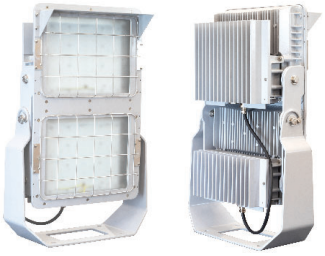
- Bolt-on visor and Bolt-on wire guard
- Floodlight slipfitter (not available on 40L & 50L)
- Slipfitter wall mount adapter (not available on 40L & 50L)
- Polycarbonate lens
- Diffused glass lens
- Dimmable driver (NEC only)
- 3x3 optic (select models)

Adverse +65°C -40°C




PFMA3L – 25L



PFMA40L – 50L

**Up to 6 times longer life and 78% reduction in power consumption compared to equivalent HID floodlights**

## DESIGN FEATURES

**A** **Versatile design -** Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement.

**B** **Rugged heat sink -** Designed to perform in high ambient temperatures up to +65°C and as low as -40°C. The thick walls of the castings make for a tough, rugged housing that keeps the internal driver and LED temperatures down.

**C** **High lumen output -** Up to 120 lumens per watt.

**D** **Full-frame yoke -** Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations (not available on 40L & 50L).

**E** **Multiple lens options -** Tempered and clear glass standard, polycarbonate and diffused glass options available.

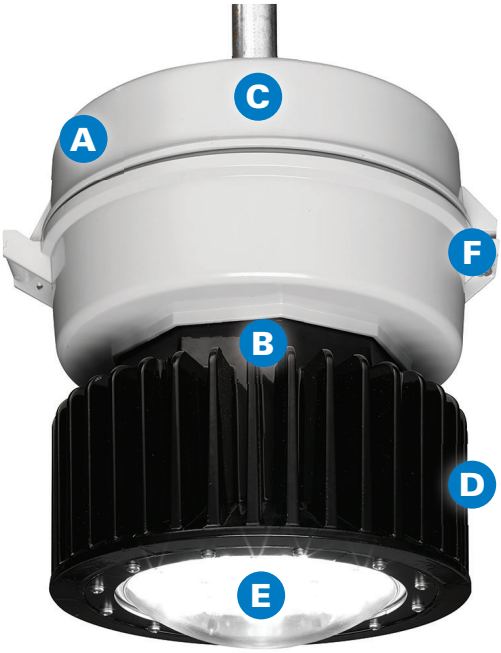
**F** **Smaller and lighter -** 25% smaller and 10 lbs (4.5 kg) lighter than previous model (3L-25L models).

NEC CEC IEC/CE ABS

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Champ™ Pro PVML LED light fixtures

Adverse +65°C -40°C




PVML-3 – PVML-11



Now available with an integral battery back-up for emergency lighting applications!

## Custom Type I, III and V optics for better output, zero maintenance and reduced energy consumption

## DESIGN FEATURES

**A** **Modular design -** This contractor-friendly design is ideal for both retrofit and new construction applications.

**B** **Safe, reliable heat transfer -** Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.

**C** **High efficiency drivers -** Designed to provide reliable operation in even the harshest environments.

**D** **Type 4X rated -** The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.

**E** **Custom optics -** Type I, III and V optics designed to maximize light distribution and intensity.

**F** **Lever-lock connectors and 3-pole terminal block.**

NEC CEC ABS

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

## PRIMARY APPLICATIONS

Locations requiring continuous and consistent light levels in extreme ambient temperatures, such as manufacturing plants, mine sites, heavy industrial or petrochemical facilities, food and beverage facilities, marine environments, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PVML-3** | 70W | |
| **PVML-5** | 100W | |
| **PVML-7** | 175W | Up to 77% reduction in energy costs and 60,000 hours of continuous operation! |
| **PVML-9** | 250W | |
| **PVML-11** | 320W | |
| **PVML-13** | 400W | |
| **PVML-17** | 400W-600W | |
| **PVML-21** | 600W-750W | |
| **PVML-25** | 750W-1,000W | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A
- cUL
- NEMA 4X, IP66, Wet Locations
- DesignLights Consortium® approved for select models*
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC standard: CE
- UL approved up to 65°C ambient (3L-11L UNV1; all other models 55°C)

## ELECTRICAL RATINGS

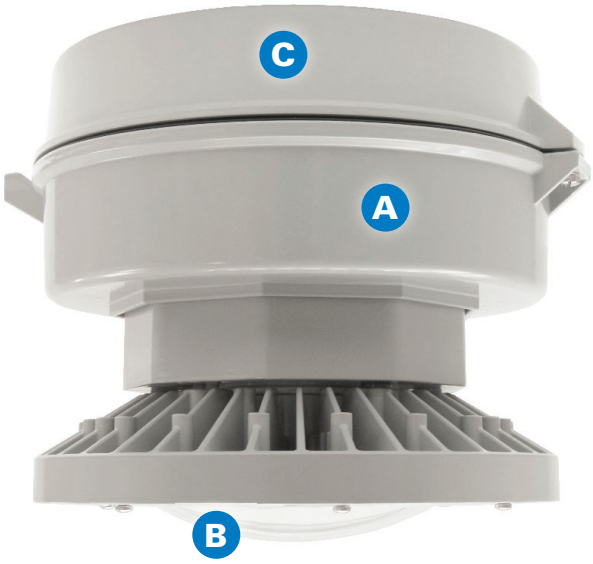
- Voltages: 120-277 VAC/108-250 VDC, 347/480 VAC
- Input power: 29W, 41W, 54W, 74W, 89W, 130W, 168W, 196W, 232W

## OPTIONS AND ACCESSORIES

- Integral back-up battery (90 minutes of emergency lighting)
- Quick clip to simplify installation
- Diffused lens, Teflon coated lens, and polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Type I, III and V optics
- Occupancy sensor and remote

# Champ™ Pro PVMA LED light fixtures




## PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous medium or heavy-duty applications such as mining, marine, food processing, pulp and paper, wastewater treatment, power generation, and general industrial manufacturing areas.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PVMA5L** | 150W | Up to 77% reduction in energy costs and 60,000 hours of continuous operation! |
| **PVMA7.5L** | 175W | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A
- CSA C22.2 No. 250
- IP66, Wet Locations
- RoHS
- IEC Standards: IEC 60598; CE
- DesignLights Consortium® approved for select models*

## ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 127-300 VDC
- Input power: 48W, 64W

## OPTIONS AND ACCESSORIES

- Ceiling, pendant, cone pendant, wall, and trunnion mounts
- Safety cable
- Quick clip

**Smaller footprint, lightweight design, and maintenance-free illumination in demanding environments**

## DESIGN FEATURES

**A** **Rugged design -** Engineered for durability in complex environments.

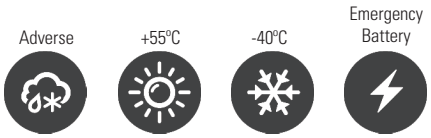
**B** **High efficiency -** Up to 122 LPW and custom optics to maximize light on the work plane.

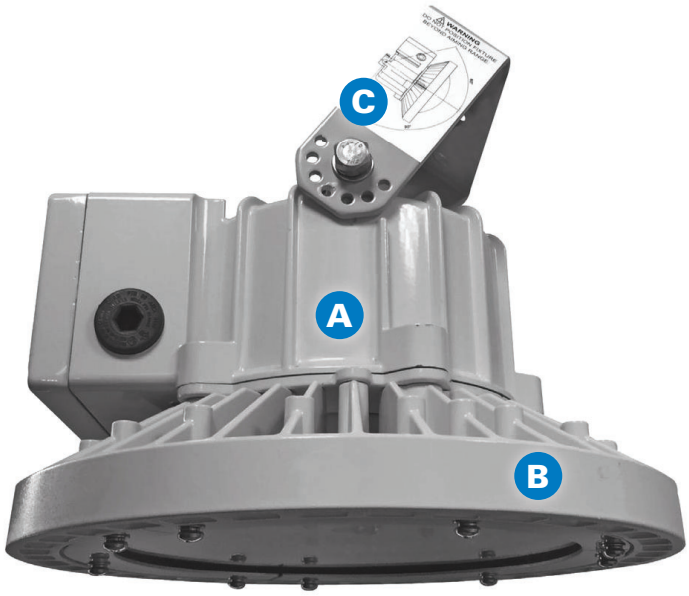
**C** **Ease of installation -** Compact footprint with ceiling, pendant, wall or stanchion mount options and the ability to retrofit Crouse-Hinds installed base.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# PLE LED light fixtures




## PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous medium or heavy-duty applications such as mining, platforms, loading docks, tunnels, and general industrial manufacturing areas.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PLE-3L** | 70W-100W | Up to 66% reduction in energy costs |
| **PLE-5L** | 100W-150W | |
| **PLE-7L** | 150W-175W | |
| **PLE-8L** | 150W-175W | |

## CERTIFICATIONS & COMPLIANCES

- IEC Standard: CE
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-240 VAC; 108-250 VDC
- Input power: 30W, 50W, 70W, 80W

## OPTIONS AND ACCESSORIES

- Emergency battery
- Clear or diffused glass lens
- Warm white (3000K) and cool white (5700K) color temperatures

**Low profile and lightweight design, easy to install and reliable illumination is demanding environments**

## DESIGN FEATURES

A **Rugged design -** Highly durable aluminum housing with a tempered and impact resistant glass globe. PLE fixture has an operating temperature range of -40°C to +55°C.

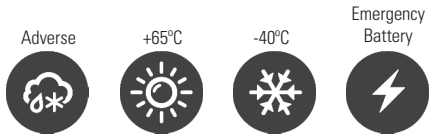
B **Lightweight and compact -** Low profile and lightweight design is ideal for compact installations.

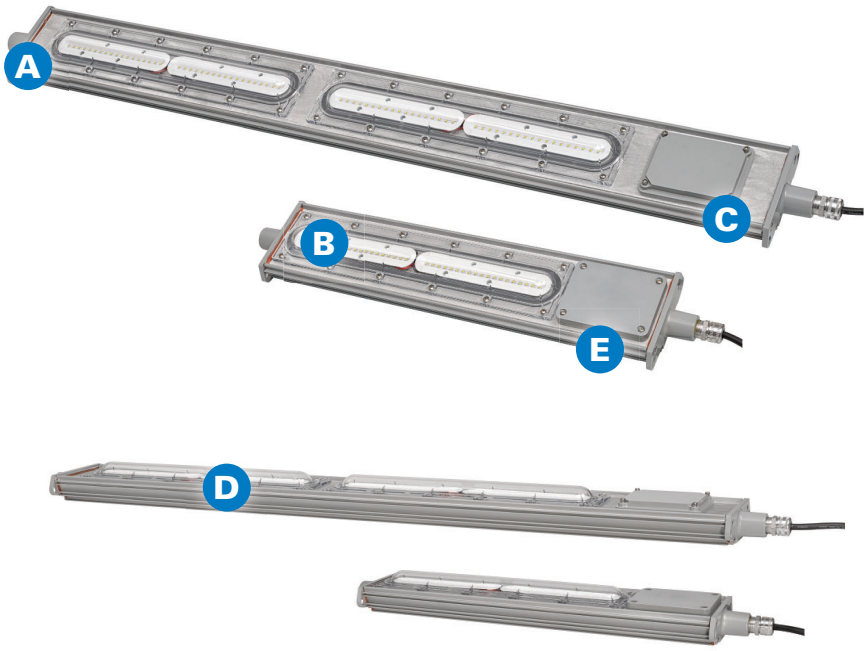
C **Ease of installation -** U-shaped yoke mount provides mounting flexibility - wall, ceiling, pole, etc.

IEC/CE

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Champ™ Pro PLLA LED linear light fixtures




## PRIMARY APPLICATIONS

Ideal for a variety of non-hazardous applications such as mining, food processing, marine, waste-water treatment heavy manufacturing and general wash down areas.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PLLA2** | 2 x 2 ft. T5/T8/ T12HO | Up to 63% reduction in energy costs and 60,000 hours of continuous operation! |
| **PLLA4** | 2 x 4 ft. T5/T8/ T12HO | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL924
- CSA C22.2 No. 250
- Type 4X, IP66, Wet Locations
- ABS design assessed
- DesignLights Consortium® approved for select models*

**Up to 63% more energy efficient than a T5HO fluorescent light and 8 times the rated life**

## ELECTRICAL RATINGS

- Voltage: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 32W, 63W

## OPTIONS AND ACCESSORIES

- Available with a self-contained battery system for emergency lighting applications
- Polycarbonate lens, available in clear or diffused
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish
- Emergency back-up battery option

## DESIGN FEATURES

A **Best-in-class efficacy -** Up to 123 lumens per watt.

B **Custom optics -** Standard wide (120°) and narrow (80°) beam pattern for a wide variety of general and targeted lighting applications.

C **Built to last -** 2,000 psi high pressure hose down rated; high vibration resistant; 60,000 hour lifetime @ 55°C ambient.

D **Slim profile -** 2.7" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.

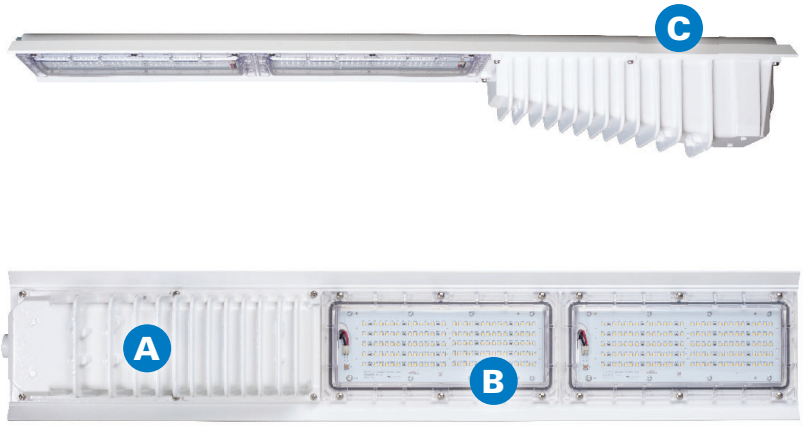
E **Quick & easy installation -** Easy access to drivers and wiring; no custom brackets or hardware needed; Seven mounting options available.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Pauluhn™ APEX LED linear light fixtures

Adverse +55°C -40°C




**NSF Splash Zone rated, 1500 PSI hose down tested and an angled housing to mitigate debris build-up**

## DESIGN FEATURES

- **A** **Innovative and robust design -** Angled light fixture mitigates debris build-up. Withstands 1500 psi high pressure wash down, and food rated paint maintains safety.
- **B** **High performance optics and drivers -** 100+ lumens per watt provides highly efficient lighting. Rated life is up to 60,000 hours of maintenance-free and safe operation.
- **C** **Easily customized for application-specific performance -** Versatile mounting options with a through feed design for simplified multiple fixture wiring.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

## PRIMARY APPLICATIONS

Replaces fluorescent T12, T8, and T5HO fixtures in hose down, corrosive and heavy industrial environments.

The APEX LED was designed with food and beverage processing facilities in mind. The fixture housing is angled to mitigate debris build-up and features a food-rated epoxy powder coat finish. Plus, its robust design can withstand 1,500 PSI hose pressure for wash down applications.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **APX13L** | 3 lamp T5HO | Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation! |
| **APX17L** | 4 lamp T5HO | |
| **APX25L** | 6 lamp T5HO | |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL8750
- CSA 22.2 No. 250
- NSF Splash Zone
- Type 4X; IP66

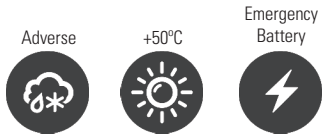
## ELECTRICAL RATINGS

- Voltages: 100-277 VAC/347-480 VAC, 127-250 VDC
- Input power: 122W, 144W, 217W

## OPTIONS AND ACCESSORIES

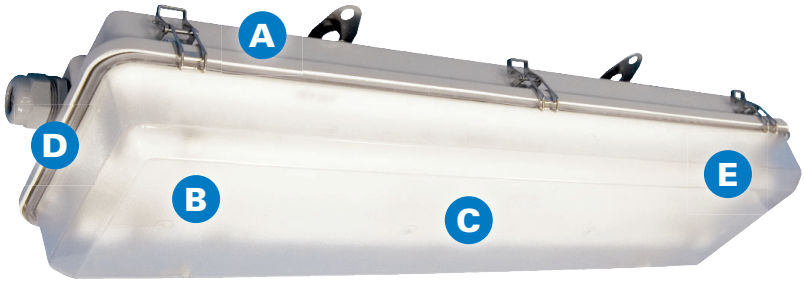
- Polycarbonate lens in clear or diffused
- Optional 0-10V dimming capabilities
- Surface/swivel mount, cable/chain mount and threaded rod mount
- Available with cord assemblies and quick disconnect receptacle

# Pauluhn™ Intrepid LED linear light fixtures




## PRIMARY APPLICATIONS

A low/mid bay linear LED fixture for industrial and marine locations. The Intrepid is available with a non-metallic housing and is Type 4X / IP66 rated for moisture protection in hose down and marine applications.




## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **FPS2L** | 2 x 2 ft. T8/ | Up to 63% reduction in energy costs and 60,000 hours of continuous operation! |

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL1598A; UL924
- CSA C22.2 No. 250
- Type 4X
- IP66
- NSF Splash Zone
- ABS approved (pending)

## ELECTRICAL RATINGS

- Voltage: 100-277 VAC
- Input power: 27W, 37W (EM model)

## OPTIONS AND ACCESSORIES

- Red and Blue color LEDs for naval applications
- Emergency battery back-up
- Surface and pole mounts

**A nonmetallic, corrosion-resistant LED fixture designed for hose down and marine applications**

## DESIGN FEATURES

A **Built to last -** Nonmetallic housing and stainless steel mounts and latches provide excellent resistance to corrosion.

B **Low-glare design -** Diffused lens minimizing glare in low mounting height applications.

C **Color LED options -** Available with red or blue LEDs for naval or emergency applications.

D **Installation-friendly -** Versatile options for terminal blocks and through feed.

E **Emergency -** Available with a self-contained battery system for emergency power loss applications.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

Adverse | +55°C | -40°C | Emergency Battery

# PLLE LED linear light fixtures






**Rugged, low profile fixture that is easy to install and provides clear illumination in challenging areas**

## PRIMARY APPLICATIONS

Constructed with an aluminum housing and high impact-resistant polycarbonate cover for use in outdoor and indoor industrial areas where moisture or corrosion may be a problem, such as offshore oil platforms, pharmaceutical and chemical plants, oil refineries and industrial locations.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PLLE-2-C2-3L** | 2x18W | Up to 39% reduction in energy costs and 50,000 hours of continuous operation! |
| **PLLE-2-C2-4L** | 2x36W | |
| **PLLE-4-C2-5L** | 2x36W | |
| **PLLE-4-C2-8L** | 2x58W | |

## CERTIFICATIONS & COMPLIANCES

- CE self declared
- IP66

## ELECTRICAL RATINGS

- Voltages: 100-240 VAC
- Input power: 30W, 40W, 60W, 80W

## OPTIONS AND ACCESSORIES

- Epoxy coating on aluminum housing
- Emergency battery back-up
- Pipe, wall, and ceiling mounts available

## DESIGN FEATURES

A **Rugged design -** Copper-free aluminum housing and impact-resistant polycarbonate lens provide excellent resistance to corrosion and heat.

B **Easy installation -** Lightweight design, hinged cover, and a terminal block wing for easy installation and maintenance.

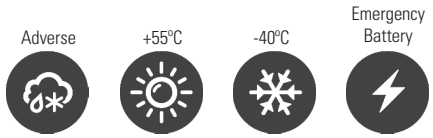
C **Industry leading thermal management -** For safe and reliable operation over a wide temperature range.

D **Retrofit friendly -** Fixture utilizes the same mounting footprint of linear fluorescent lighting.

IEC/CE

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# CEAG™ LLK15 LED linear light fixtures

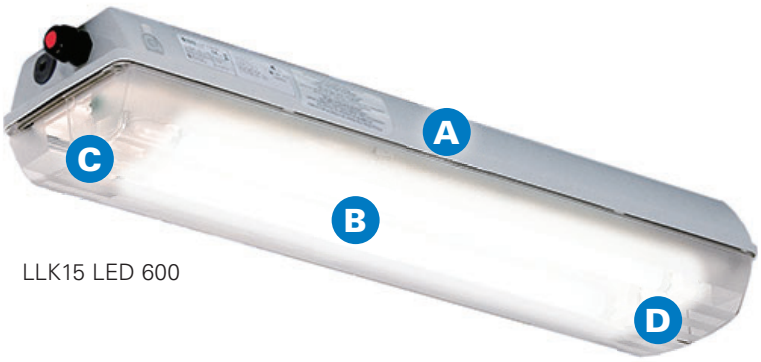



## PRIMARY APPLICATIONS

Crisp, bright light and durability in wet and harsh environments. Wide ambient temperature range from -40° to +55°C. Heavy duty, non-metallic construction stands up to dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

## LUMINAIRE MODELS

| Model number | Equivalent fluorescent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **LLK15 LED 600** | 2 x 18W | Up to 60% more efficient than fluorescent light fixtures |
| **LLK15 LED 1200** | 2 x 36W | |
| **LLK15 LED 1500** | 2 x 58W | |




LLK15 LED 600



LLK15 LED 1200 and 1500

## CERTIFICATIONS & COMPLIANCES

- IP66
- Operating temperature range -40°C to +55°C

## ELECTRICAL RATINGS

- Voltage: 220-240 VAC
- Input power: 18W, 37W, 49W

## OPTIONS AND ACCESSORIES

- Available with safety switch on request
- Wall mount brackets, ceiling mount brackets and pipe clamps
- Available with battery
- Available with V-CG-S module for monitoring with an Eaton central battery system
- Available with DALI

**A rugged and durable LED fixture designed reliable performance in extreme ambient temperatures**

## DESIGN FEATURES

A **Built to last -** Heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present.

B **High output -** Utilizes long-life LED tubes for extreme applications, providing high efficacy and long life.

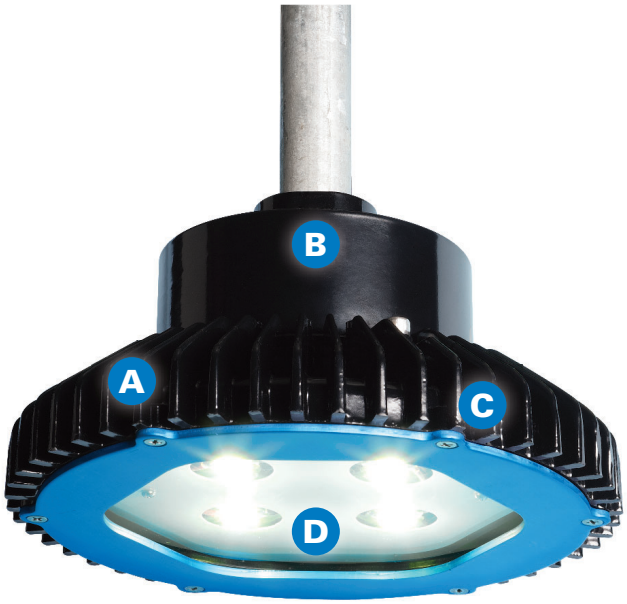
C **Extreme temperatures -** Rated for use in ambient temperatures from -40°C to +55°C

D **Emergency -** Available with a self-contained battery system or V-CG-S module for monitoring with an Eaton central battery system.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.

# Vaporgard™ Pro P2L/P3L LED light fixtures

Adverse +50°C




**85% more energy-efficient than a 200 watt incandescent and over 20 times the rated life**

## PRIMARY APPLICATIONS

Indoor or outdoor areas with low mounting heights or confined spaces, such as tunnels and catwalks, over doorways or entries, landing areas, utility rooms, etc.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| P2LM2 | 50W HID or 150-200W incandescent | Up to 85% reduction in energy costs and 50,000 hours of continuous operation! |
| P3LM2 | | |

## CERTIFICATIONS & COMPLIANCES

- UL1598
- UL1598A Marine
- cUL Listed to CSA Standard CSA 22.2 No. 250
- Type 4X, IP66, Wet Locations
- DesignLights Consortium® approved for select models*
- IEC Standard: CE

## ELECTRICAL RATINGS

- Voltages: 120-277 VAC, 12-24 VDC
- Input power: 14W, 29W

## OPTIONS AND ACCESSORIES

- Frosted/Diffused lens
- Teflon coated lens
- Warm white (3000K), Neutral (400K) and cool white (5000K) color temperatures
- 10-30 VDC driver
- Wall, ceiling, pendant and stanchion mounts

## DESIGN FEATURES

**A** **Domeless reflector, low profile design -** Designed for low mounting heights and confined spaces where incandescent and HID based luminaires are too large.

**B** **Installation and replacement made simple -** Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard fixtures.

**C** **Safe, reliable heat transfer -** Heat sink engineered to safely and effectively remove heat from the LED and driver, ensuring long product life and superior T-ratings.

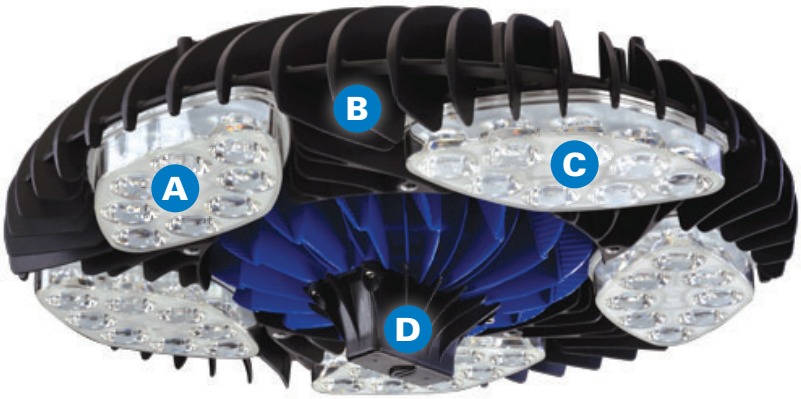
**D** **High power multi-die LED arrays -** Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Champ™ Pro PVM High Bay LED

Adverse +65°C -40°C




## PRIMARY APPLICATIONS

A durable, high lumen solution for industrial areas with mounting heights from 60 to 100+ feet. Common applications include production facilities, clean rooms, packaging facilities and warehouses.

## LUMINAIRE MODELS

| Model number | Equivalent HID luminaire | Typical energy savings/lifetime |
|---|---|---|
| **PVM60L** | 1000W | Up to 65% reduction in energy costs and 60,000 hours of continuous operation! |
| **PVM85L** | 1500W | |

## CERTIFICATIONS & COMPLIANCES

- cULus wet location
- Type 4X, IP66
- ROHS compliant
- DesignLights Consortium® approved for select models*

## ELECTRICAL RATINGS

- Voltage: 277-480 VAC
- Input power: 472W, 678W

## OPTIONS AND ACCESSORIES

- Two CCT colors: 4000K and 5000K at 85 CRI
- Medium, narrow, wide and extra wide optics
- Control options include standard fixed output or optional 0-10V dimming
- Universal mounting allows for suspended, pipe or hook mount. Optional surface mount bracket available
- Available with cord assemblies and plugs

**Delivers up to 85,000 lumens for industrial areas with mounting heights from 60 to 100+ feet.**

## DESIGN FEATURES

A **Best-in-class efficacy -** Up to 132 lumens per watt.

B **Built to last -** Constructed of heavy duty, die cast aluminum with a 3G vibration rating and an operating temperature range of -40°C to +65°C (60,000 lumen model) and -40°C to +50°C (85,000 lumen model).

C **Custom optics -** Narrow, medium, wide and extra wide distribution options ensures superior performance to key areas within an application.

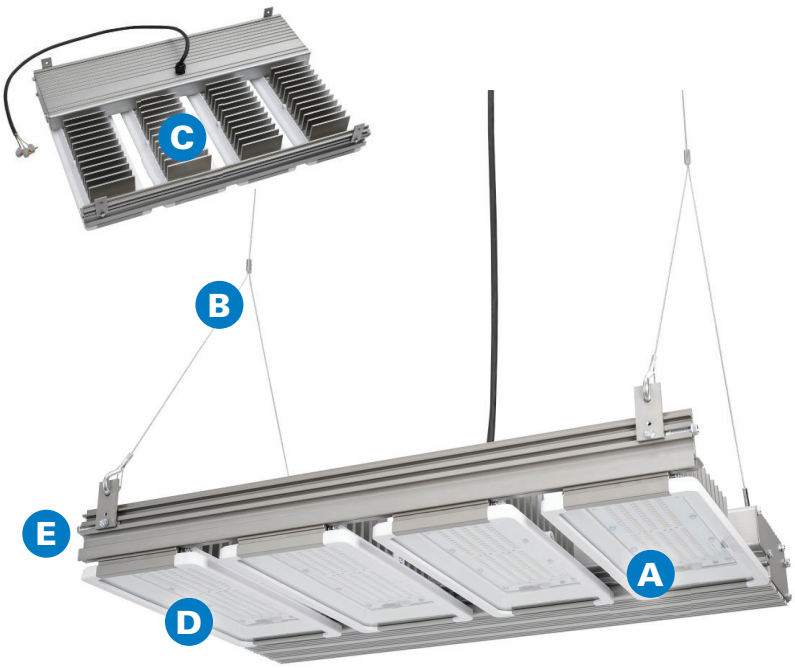
D **Dimming capabilities -** Control options include standard fixed output or optional 0-10V dimming.

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

# Industrial High Bay LED light fixtures

Adverse +60°C -40°C




**Perfect replacement for 400-1500 watt HID or 4-10 lamp T5HO fixtures**

## PRIMARY APPLICATIONS

IHB LED luminaires are the perfect replacement for 250W-1,500W HID and 4-10 lamp T5HO fluorescent high bay fixtures. Designed for locations requiring continuous and consistent light levels, requiring frequent on-and-off of lights and that are difficult to relamp or that cause production to be stopped during the lamp maintenance process.

## LUMINAIRE MODELS

| Model number | Equivalent luminaire | Typical energy savings/lifetime |
|---|---|---|
| **IHB16L** | 250-500W HID or 4 lamp T5HO | Up to 72% reduction in energy costs and 60,000 hours of continuous operation! |
| **IHB24L** | 400-750W HID or 4-6 lamp T5HO | |
| **IHB32L** | 500-1000W HID or 6-8 lamp T5HO | |
| **IHB48L** | 750-1,500W HID or 8-10 lamp T5HO | |
| **IHB64L** | 1,000-1,500W HID or 10 lamp T5HO | |

## DESIGN FEATURES

- **A** **Increased efficiency -** Up to 117 lumens per watt.
- **B** **Multiple mounting options -** Available with pendant, aircraft cable or jack chain mounting.
- **C** **Aluminum heat sinks for superior thermal management.**
- **D** **Multiple lens options -** Tempered and clear glass standard, diffused glass and clear or diffused polycarbonate options available.
- **E** **Optional occupancy sensor kit available.**

## CERTIFICATIONS & COMPLIANCES

- UL1598; UL8750
- cULus
- Damp location
- DesignLights Consortium® approved for select models

## ELECTRICAL RATINGS

- Voltages: 100-277 VAC/127-250 VDC, 347-480 VAC
- Input power: 145W, 216W, 289W, 436W, 582W

## OPTIONS AND ACCESSORIES

- Occupancy sensor kits
- Diffused or clear lens (glass or polycarbonate)
- Lens guard
- Open ended and closed dust cover kits
- Dimmable driver
- Wide or aisle optic
- Pendant, aircraft cable or jack chain mounting

NEC CEC

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
* Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

Notes:

Notes:

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