Global LED solutions for harsh and hazardous environments
Global LED solutions for harsh and hazardous environments


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

- **Serviceable drivers**
  Easy access to drivers for service or replacement
## Selection guide – Hazardous areas

<table>
<thead>
<tr>
<th>Area classification</th>
<th>Application</th>
<th>Product</th>
<th>Equivalent light output</th>
<th>Lumen level</th>
<th>Extreme ambients†</th>
<th>Emergency battery option</th>
<th>DLC qualified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td>Champion™ FMV</td>
<td>9 models - 70W to 400W HID replacement</td>
<td>3,000 - 50,000 lumens</td>
<td>+65°C -40°C</td>
<td>DLC qualified*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High/mid bay</td>
<td>Champion™ VMV</td>
<td>9 models - 70W to 1000W HID replacement</td>
<td>3,500 - 26,500 lumens</td>
<td>+65°C -40°C</td>
<td>DLC qualified*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High/mid bay</td>
<td>Champion™ VMV Connected</td>
<td>5 models - 70W to 400W HID replacement</td>
<td>3,300 - 11,300 lumens</td>
<td>+65°C -40°C</td>
<td>DLC qualified*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid/low bay</td>
<td>NLE</td>
<td>4 models - 70W to 175W HID replacement</td>
<td>3,000 - 8,000 lumens</td>
<td>+55°C -40°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>Champion™ MLL</td>
<td>2 models - 2 lamp T5HO replacement</td>
<td>3,600 - 7,100 lumens</td>
<td>+65°C -40°C</td>
<td>(select models)*</td>
<td></td>
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</tr>
<tr>
<td>Linear</td>
<td>Pauluhn™ Summit</td>
<td>3 models - up to 6 lamp T5HO replacement</td>
<td>13,000 - 25,100 lumens</td>
<td>+55°C -40°C</td>
<td>(select models)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>CEAG nLKK15</td>
<td>2 models - 2x18W and 2x36W fluorescent replacement</td>
<td>2,100 - 4,100 lumens</td>
<td>+50°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>nHLL</td>
<td>4 models - 2x18W, 2x36W and 2x66W fluorescent replacement</td>
<td>3,000 - 8,000 lumens</td>
<td>+55°C -40°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low bay</td>
<td>Vaporgard™ V2L</td>
<td>2 models - 100W to 200W incandescent &amp; 50W-70W HID</td>
<td>1,700 - 3,300 lumens</td>
<td>+55°C</td>
<td>(select models)*</td>
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<td></td>
</tr>
<tr>
<td>Emergency and Exit</td>
<td>N2LPS, UX, Ex-Lite, Exit, Exit2</td>
<td>N/A</td>
<td>N/A</td>
<td>Varies by family</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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Not all models are approved for all application categories.
## Selection guide – Hazardous areas

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<th>Emergency battery option</th>
<th>DLC qualified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodlight</td>
<td>CEAG PXLED</td>
<td>6 models - 70W to 600W</td>
<td>5,000 - 30,000 lumens</td>
<td>+55°C -50°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>HID replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High/mid bay</td>
<td>Hazard-Gard™</td>
<td>5 models - 70W to 400W</td>
<td>5,700 - 13,500 lumens</td>
<td>+65°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td>EVLL/nEVLL</td>
<td>HID replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High/mid bay</td>
<td>LPL</td>
<td>8 models - 70W to 400W</td>
<td>4,500 - 14,500 lumens</td>
<td>+55°C -40°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>HID replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid/low bay</td>
<td>HPL</td>
<td>4 models - 70W to 175W</td>
<td>3,000 - 8,000 lumens</td>
<td>+50°C -40°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>HID replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>Hazard-Gard™</td>
<td>2 models - 2 lamp T5HO</td>
<td>3,800 - 7,600 lumens</td>
<td>+65°C -40°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td>XPL</td>
<td>replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>CEAG Ex-Lin</td>
<td>3 models - 2x18W, 2x36W</td>
<td>2,750 - 8,120 lumens</td>
<td>+55°C -40°C</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>and 2x58W fluorescent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>CEAG eLLK LED</td>
<td>2 models - 2x18W and</td>
<td>2,100 - 4,100 lumens</td>
<td>+55°C</td>
<td>N/A</td>
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<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>2x36W fluorescent</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear</td>
<td>HLL</td>
<td>2 models - 2x18W and</td>
<td>2,800 - 5,700 lumens</td>
<td>+55°C</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>2x36W fluorescent</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Low bay</td>
<td>Hazard-Gard™</td>
<td>2 models - 100W to 200W</td>
<td>1,500 - 2,000 lumens</td>
<td>+55°C (AC)</td>
<td>N/A</td>
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<tr>
<td>IECEx</td>
<td>EV LED</td>
<td>incandescent &amp; 70W-100W</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>HID replacement</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Bulkhead</td>
<td>AB05 LED</td>
<td>1 model - 150W</td>
<td>2,000 lumens</td>
<td>+55°C -55°C</td>
<td>N/A</td>
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<td></td>
</tr>
<tr>
<td>IECEx</td>
<td></td>
<td>incandescent replacement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Not all models are approved for all application categories.
### Selection guide – Harsh/heavy & light industrial

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<thead>
<tr>
<th>Area classification</th>
<th>Application</th>
<th>Product</th>
<th>Equivalent light output</th>
<th>Lumen level</th>
<th>Extreme ambients†</th>
<th>Emergency battery option</th>
<th>DLC qualified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Harsh/heavy industrial</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flood</td>
<td>Flood</td>
<td>Champ™ Pro PFM</td>
<td>9 models - 70W to 1500W HID replacement</td>
<td>3,000 - 50,000 lumens</td>
<td>+65°C</td>
<td>N/A</td>
<td>(select models)*</td>
</tr>
<tr>
<td>High/mid bay</td>
<td>High/mid bay</td>
<td>Champ™ Pro PVM</td>
<td>9 models - 70W to 1000W HID replacement</td>
<td>3,500 - 26,500 lumens</td>
<td>+65°C</td>
<td>N/A</td>
<td>(select models)*</td>
</tr>
<tr>
<td>High/mid bay</td>
<td>High/mid bay</td>
<td>Champ™ Pro PVMA</td>
<td>2 models - 150W to 175W HID replacement</td>
<td>5,800 - 7,700 lumens</td>
<td>+55°C</td>
<td>N/A</td>
<td>(select models)*</td>
</tr>
<tr>
<td>Mid/low bay</td>
<td>Mid/low bay</td>
<td>PLE</td>
<td>4 models - 70W to 175W HID replacement</td>
<td>3,000 - 8,000 lumens</td>
<td>+55°C</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Linear</td>
<td>Linear</td>
<td>Champ™ Pro PLL</td>
<td>2 models - 2 lamp T5HO replacement</td>
<td>3,600 - 7,100 lumens</td>
<td>+65°C</td>
<td>✓</td>
<td>(select models)*</td>
</tr>
<tr>
<td>Linear</td>
<td>Linear</td>
<td>Pauluhn™ APEX</td>
<td>3 models - up to 6 lamp T5HO replacement</td>
<td>13,000 - 25,100 lumens</td>
<td>+55°C</td>
<td>N/A</td>
<td>(select models)*</td>
</tr>
<tr>
<td>Linear</td>
<td>Linear</td>
<td>Pauluhn™ Intrepid</td>
<td>1 model - 2 lamp T8 replacement</td>
<td>3,494 lumens</td>
<td>+50°C</td>
<td>✓</td>
<td>N/A</td>
</tr>
<tr>
<td>Linear</td>
<td>Linear</td>
<td>PLLE</td>
<td>4 models - 2x18W, 2x36W and 2x58W fluorescent replacement</td>
<td>3,000 - 8,000 lumens</td>
<td>+55°C</td>
<td>✓</td>
<td>N/A</td>
</tr>
<tr>
<td>Linear</td>
<td>Linear</td>
<td>CEAG LLK15</td>
<td>2 models - 2x18W and 2x36W fluorescent replacement</td>
<td>2,100 - 4,100 lumens</td>
<td>+55°C</td>
<td>✓</td>
<td>N/A</td>
</tr>
<tr>
<td>Low bay</td>
<td>Low bay</td>
<td>Vaporgard™ Pro P2L</td>
<td>2 models - 100W to 200W incandescent; 50W-70W HID replacement</td>
<td>1,700 - 3,300 lumens</td>
<td>+55°C</td>
<td>N/A</td>
<td>(select models)*</td>
</tr>
<tr>
<td><strong>Light Industrial</strong></td>
<td>High bay</td>
<td>Industrial high bay</td>
<td>5 models - 250W-1000W HID &amp; 4-10 Lamp T5HO replacement</td>
<td>16,000 - 67,000 lumens</td>
<td>+60°C</td>
<td>N/A</td>
<td>(select models)</td>
</tr>
<tr>
<td>High bay</td>
<td>High bay</td>
<td>Champ® Pro PVM High Bay</td>
<td>2 models - 1000W to 1500W HID replacement</td>
<td>60,000 - 85,000 lumens</td>
<td>+65°C</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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Not all models are approved for all application categories.
Champ™ FMV 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMV3L</td>
<td>70W</td>
<td>Up to 78% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>FMV5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>FMV7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>FMV9L</td>
<td>175W-250W</td>
<td></td>
</tr>
<tr>
<td>FMV11L</td>
<td>250W-400W</td>
<td></td>
</tr>
<tr>
<td>FMV13L</td>
<td>400W</td>
<td></td>
</tr>
<tr>
<td>FMV15L</td>
<td>400W-500W</td>
<td></td>
</tr>
<tr>
<td>FMVA20L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>FMVA25L</td>
<td>705W-1000W</td>
<td></td>
</tr>
<tr>
<td>FMVA40L</td>
<td>1,500W+</td>
<td></td>
</tr>
<tr>
<td>FMVA50L</td>
<td>1,500W+</td>
<td></td>
</tr>
</tbody>
</table>

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

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)

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 +65ºC and as low as -40ºC. 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).

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EATON’S CROUSE-HINDS LED lighting solutions
**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.**

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**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.

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**LUMINAIRE MODELS**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>VM5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>VM7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>VM9L</td>
<td>250W-320W</td>
<td></td>
</tr>
<tr>
<td>VM11L</td>
<td>320W-400W</td>
<td></td>
</tr>
<tr>
<td>VM13L</td>
<td>400W</td>
<td>Up to 77% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>VM17L</td>
<td>400W-600W</td>
<td></td>
</tr>
<tr>
<td>VM21L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>VM25L</td>
<td>750W-1000W</td>
<td></td>
</tr>
</tbody>
</table>

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**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

**OPTIONS AND ACCESSORIES**

- Quick clip
- Diffused lens
- Teflon coated lens
- Polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Type I, III and V optics
- Terminal block (TB6) 6-pole

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Not all models are approved for all application categories.
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

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<tr>
<td>VMV5L</td>
<td>100W-150W</td>
<td></td>
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<tr>
<td>VMV7L</td>
<td>150W-175W</td>
<td>Up to 77% more efficient than standard LED light fixtures!</td>
</tr>
<tr>
<td>VMV9L</td>
<td>250W-320WW</td>
<td></td>
</tr>
<tr>
<td>VMV11L</td>
<td>320W-400W</td>
<td></td>
</tr>
</tbody>
</table>

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; 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


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.

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

Ex-Gas Ex-Dust Adverse +65ºC -40ºC

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

---

**LOW PROFILE AND LIGHTWEIGHT DESIGN, EASY TO INSTALL AND RELIABLE ILLUMINATION IN ZONE 2 AND 22 AREAS**

---

**NLE LED LIGHT FIXTURES**

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLE-3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>NLE-5L</td>
<td>100W-150W</td>
<td>Up to 66% reduction in energy costs</td>
</tr>
<tr>
<td>NLE-7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>NLE-8L</td>
<td>150W-175W</td>
<td></td>
</tr>
</tbody>
</table>

---

**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 61000-3-2:2006/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

---

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL2</td>
<td>2 x 2 ft. T5/T8/T12HO</td>
<td>Up to 67% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>MLL4</td>
<td>2 x 4 ft. T5/T8/T12HO</td>
<td></td>
</tr>
</tbody>
</table>

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
- 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

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.

† 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**

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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUM13L</td>
<td>3 lamp T5HO</td>
<td>Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>SUM17L</td>
<td>4 lamp T5HO</td>
<td></td>
</tr>
<tr>
<td>SUM25L</td>
<td>6 lamp T5HO</td>
<td></td>
</tr>
</tbody>
</table>

**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

---

**Design Features**

- **Innovative and robust design** - Angled light fixture mitigates debris build-up. Withstands 1,500 psi high pressure wash down, and food rated paint maintains safety.

- **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.

- **Easily customized for application-specific performance** - Versatile mounting options with a through feed design for simplified multiple fixture wiring.

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1 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>nLLK15 LED 600</td>
<td>2 x 18W</td>
<td>Up to 77% more efficient than standard LED light fixtures!</td>
</tr>
<tr>
<td>nLLK15 LED 1200</td>
<td>2 x 36W</td>
<td></td>
</tr>
<tr>
<td>nLLK15 LED 1500</td>
<td>2 x 58W</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES
- 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.

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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHLL-2-C2-3L</td>
<td>2x18W</td>
<td>Up to 39% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>NHLL-2-C2-4L</td>
<td>2x36W</td>
<td></td>
</tr>
<tr>
<td>NHLL-4-C2-5L</td>
<td>2x36W</td>
<td></td>
</tr>
<tr>
<td>NHLL-4-C2-8L</td>
<td>2x58W</td>
<td></td>
</tr>
</tbody>
</table>

**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

---

**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.

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2LM2</td>
<td>50W HID or 150-200W incandescent</td>
<td>Up to 85% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>V3LM2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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.

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Battery life</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2LPSM2</td>
<td>90 minutes</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Rating</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex-Lite</td>
<td>Hazardous</td>
<td>Optional</td>
</tr>
<tr>
<td>UX LED</td>
<td>Industrial or Hazardous</td>
<td>Optional</td>
</tr>
<tr>
<td>EXIT / EXIT 2</td>
<td>Hazardous</td>
<td>Optional</td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES

- 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
- NEMA 4X, IP66, Outdoor Wet Locations
- UL50; UL844; UL924; UL1598A
- 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

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.

* 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.

EATON’S CROUSE-HINDS LED lighting solutions
60,000 hour rated life at 55°C ensures years of reliable performance in hazardous IEC applications

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXLED5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>PXLED10L</td>
<td>175W-250W</td>
<td></td>
</tr>
<tr>
<td>PXLED15L</td>
<td>400W-500W</td>
<td></td>
</tr>
<tr>
<td>PXLED20L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>PXLED25L</td>
<td>750W-1000W</td>
<td></td>
</tr>
<tr>
<td>PXLED30L</td>
<td>1500W</td>
<td></td>
</tr>
</tbody>
</table>

**CERTIFICATIONS & COMPLIANCES**
- Ex db eb op is q IIC T4 Gb
- Ex tb op is IIIC T100°C Db
- BVS 17 ATEX E 013 X
- IECEx Certificate of conformity: IECEx BVS 170004 X
- IP66/67

**ELECTRICAL RATINGS**
- Voltages: 110-277 VAC, 127-270 VDC

**OPTIONS AND ACCESSORIES**
- Wide, narrow and asymmetric beam options
- Pole mounting

**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.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
Energy-efficient and globally certified explosionproof workhorse for general area and high bay lighting applications

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.

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVLL5L</td>
<td>100W-150W</td>
<td>Up to 62% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>EVLL7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>EVLL9L</td>
<td>175W-250W</td>
<td></td>
</tr>
<tr>
<td>EVLL11L</td>
<td>250W-320W</td>
<td></td>
</tr>
<tr>
<td>EVLL13L</td>
<td>320W-400W</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES

- Class I, Division 1, Groups B, C, D
- Class I, Zone 1, Groups IIB + H2, 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

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

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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPL 18-C57-4L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-5L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-6L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-7L</td>
<td>150W-175W</td>
<td>Up to 60% reduction in energy costs</td>
</tr>
<tr>
<td>LPL 18-C57-9L</td>
<td>175W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-10L</td>
<td>250W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-12L</td>
<td>250W-400W</td>
<td></td>
</tr>
<tr>
<td>LPL 18-C57-14L</td>
<td>400W</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES

- Ex db eb IIC T6/T5 Gb
- Ex tb IIIC T80°C/T95 C Db

Ambient temperature

- Non-EM: -40°C to +40°C/45°C/55°C
- EM: -40°C to +45°C/55°C

ELECTRICAL RATINGS

- Voltage: Non-EM: 100-277 VAC 50/60Hz, 127-250 VDC. EM: 100-240 VAC 50/60Hz, 127-250 VDC

OPTIONS AND ACCESSORIES

- Cold white (5,700K) and warm white (3,000K) are available
- Mounting: Pipe mounting and "U" shape bracket available

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

DESIGN FEATURES

A Robust construction - This corrosion-proof fixture offers high quality, shock- and vibration-resistant LEDs, copper-free aluminum housing and an impact-resistant glass globe.

B Excellent thermal management - Innovative heatsink ensures long life in extreme environments.

C Lead-free and environmentally-friendly.

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

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPL-3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>HPL-5L</td>
<td>100W-150W</td>
<td>Up to 66% reduction in energy costs</td>
</tr>
<tr>
<td>HPL-7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>HPL-8L</td>
<td>150W-175W</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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.
Hazard•Gard™ XPL 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>XPL2</td>
<td>2 x 2 ft. T5/T8/ T12HO</td>
<td>Up to 53% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>XPL4</td>
<td>2 x 4 ft. T5/T8/ T12HO</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

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

CERTIFICATIONS & COMPLIANCES

• Ex II 2 G Ex eb ib op is q IIC T4 Gb
• Ex eb ib op is q IIC T4 Gb
• 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

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Battery</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>eLLK LED 400A</td>
<td>2x18W fluorescent</td>
<td>No</td>
<td>Up to 20% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>eLLK LED 800A</td>
<td>2x36W fluorescent</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>eLLK LED 400A NE</td>
<td>2x18W fluorescent</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>eLLK LED 800A NE</td>
<td>2x36W fluorescent</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES
- II 2G Ex de mb IIC T4 Gb
- 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

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

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.

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

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

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLL-2-3L</td>
<td>2x18W</td>
<td>Up to 39% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>HLL-4-5L</td>
<td>2x36W</td>
<td></td>
</tr>
</tbody>
</table>

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

† 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVLED201</td>
<td>100W-200W incandescent</td>
<td>Up to 85% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>EVLED701</td>
<td>70W-100W HID</td>
<td></td>
</tr>
</tbody>
</table>

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.

† 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

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

LUMINAIRE MODELS

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB05</td>
<td>150W incandescent</td>
<td>Up to 80%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60,000 hours of continuous operation!</td>
</tr>
</tbody>
</table>

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

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

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.

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFM3L</td>
<td>70W</td>
<td></td>
</tr>
<tr>
<td>PFM5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>PFM7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>PFM9L</td>
<td>175W-250W</td>
<td></td>
</tr>
<tr>
<td>PFM11L</td>
<td>250W-400W</td>
<td></td>
</tr>
<tr>
<td>PFM13L</td>
<td>400W</td>
<td></td>
</tr>
<tr>
<td>PFM15L</td>
<td>400W-500W</td>
<td></td>
</tr>
<tr>
<td>PFMA20L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>PFMA25L</td>
<td>750W-1000W</td>
<td></td>
</tr>
<tr>
<td>PFMA40L</td>
<td>1,500W+</td>
<td></td>
</tr>
<tr>
<td>PFMA50L</td>
<td>1,500W+</td>
<td></td>
</tr>
</tbody>
</table>

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

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)

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).

† 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 LED light fixtures

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVM3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>PVM5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>PVM7L</td>
<td>150W-1575W</td>
<td></td>
</tr>
<tr>
<td>PVM9L</td>
<td>250W-320W</td>
<td></td>
</tr>
<tr>
<td>PVM11L</td>
<td>320W-400W</td>
<td></td>
</tr>
<tr>
<td>PVM13L</td>
<td>400W</td>
<td></td>
</tr>
<tr>
<td>PVM17L</td>
<td>400W-600W</td>
<td></td>
</tr>
<tr>
<td>PVM21L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>PVM25L</td>
<td>750W-1,000W</td>
<td></td>
</tr>
</tbody>
</table>

**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

**OPTIONS AND ACCESSORIES**
- Quick clip
- Diffused lens
- Teflon coated lens
- Polycarbonate lens
- Wire guard
- Trunnion mount
- Cone top hat
- Occupancy sensor and remote

### 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.

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† 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 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVMA5L</td>
<td>150W</td>
<td>Up to 77% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>PVMA7.5L</td>
<td>175W</td>
<td></td>
</tr>
</tbody>
</table>

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 installed base.

† 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.
**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.

**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**

<table>
<thead>
<tr>
<th>Model number</th>
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<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLE-3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>PLE-5L</td>
<td>100W-150W</td>
<td>Up to 66% reduction in energy costs</td>
</tr>
<tr>
<td>PLE-7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>PLE-8L</td>
<td>150W-175W</td>
<td></td>
</tr>
</tbody>
</table>

**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

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
Champ™ Pro PLL LED linear light fixtures

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

LUMINAIRE MODELS

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PLL2</td>
<td>2 x 2 ft. T5/T8/ T12HO</td>
<td>Up to 63% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>PLL4</td>
<td>2 x 4 ft. T5/T8/ T12HO</td>
<td></td>
</tr>
</tbody>
</table>

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

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

OPTIONS AND ACCESSORIES
- Polycarbonate lens, available in clear or diffused
- Flushback, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish
- Emergency back-up battery option

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

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.

† 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

**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.

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>APX13L</td>
<td>3 lamp T5HO</td>
<td>Up to 50% reduction in energy costs and minimum 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>APX17L</td>
<td>4 lamp T5HO</td>
<td></td>
</tr>
<tr>
<td>APX25L</td>
<td>6 lamp T5HO</td>
<td></td>
</tr>
</tbody>
</table>

**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

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPS2L</td>
<td>2 x 2 ft. T8/</td>
<td>Up to 63% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
</tbody>
</table>

**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

**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.

† Operating temperature range may vary by lumen models within a product family. Refer to product catalog pages for complete temperature range details.
**PLLE LED**
linear light fixtures

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLLE-2-C2-3L</td>
<td>2x18W</td>
<td>Up to 39% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>PLLE-2-C2-4L</td>
<td>2x36W</td>
<td></td>
</tr>
<tr>
<td>PLLE-4-C2-5L</td>
<td>2x36W</td>
<td></td>
</tr>
<tr>
<td>PLLE-4-C2-8L</td>
<td>2x58W</td>
<td></td>
</tr>
</tbody>
</table>

**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

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**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.

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† 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°C 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLK15 LED 600</td>
<td>2 x 18W</td>
<td>Up to 60% more efficient than fluorescent light fixtures</td>
</tr>
<tr>
<td>LLK15 LED 1200</td>
<td>2 x 36W</td>
<td></td>
</tr>
<tr>
<td>LLK15 LED 1500</td>
<td>2 x 58W</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATIONS & COMPLIANCES
- Text
- 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

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 LED light fixtures

**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**

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2LM2</td>
<td>50W HID or 150-200W incandescent</td>
<td>Up to 85% reduction in energy costs and 50,000 hours of continuous operation!</td>
</tr>
<tr>
<td>P3LM2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**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

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

**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.

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† 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

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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent HID luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVM60L</td>
<td>1000W</td>
<td>Up to 65% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>PVM85L</td>
<td>1500W</td>
<td></td>
</tr>
</tbody>
</table>

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.

† 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.
PRIMAR 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

<table>
<thead>
<tr>
<th>Model number</th>
<th>Equivalent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHB16L</td>
<td>250-500W HID or 4 lamp T5HO</td>
<td>Up to 72% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>IHB24L</td>
<td>400-750W HID or 4-6 lamp T5HO</td>
<td></td>
</tr>
<tr>
<td>IHB32L</td>
<td>500-1000W HID or 6-8 lamp T5HO</td>
<td></td>
</tr>
<tr>
<td>IHB48L</td>
<td>750-1500W HID or 8-10 lamp T5HO</td>
<td></td>
</tr>
<tr>
<td>IHB64L</td>
<td>1,000-1,500W HID or 10 lamp T5HO</td>
<td></td>
</tr>
</tbody>
</table>

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

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

† 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.

EATON’S CROUSE-HINDS LED lighting solutions

Industrial High Bay

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

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.

Adverse +60ºC -40ºC

Light industrial
High Bay

Industrial High Bay
LED light fixtures

Primary Applications

Primary applications for industrial high bay LED lights include replacement for 250W-1,500W HID and 4-10 lamp T5HO fixtures. The features ensure efficiency, multiple mounting options, aluminum heat sinks for thermal management, multiple lens options, and an optional occupancy sensor kit.
Why are so many facilities making the switch to Crouse-Hinds series LED?

The numbers say it all.

Assumptions: Calculations based on overall life of the LED system. Energy cost of $0.09 per kilowatt; 24 hour per day operation; labor rate of $75 each for 2 workers; average time for fixture maintenance of 1 hour.
For more information:
If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.