LED Luminaires
For Industrial and Hazardous Areas
Brilliantly combining safety, reliability and energy efficiency
Cooper Crouse-Hinds offers the broadest portfolio of LED luminaires for any industrial or hazardous application. Additionally, we utilize more than 100 years of lighting expertise to optimize the benefits of LED technology to offer the safest and most reliable LED luminaire in the market.

Cooper Crouse-Hinds’ LED Luminaires Have Numerous Advantages

Product Life

- **Operating life** – expected operating life of a Cooper Crouse-Hinds LED luminaire is 60,000 hours. This is a significant upgrade over traditional light sources, such as incandescent and HID.

- **Vibration** – shock- and vibration-resistant solid-state devices have no filaments or glass components that could break, greatly reducing the risk of premature failure.

- **Heat dissipation** – Cooper Crouse-Hinds’ heat sinks are specifically engineered to remove heat from the LEDs and driver to ensure longer life, better lumen output and accurate color temperature.

Energy Efficiency and Lumen Output

- Cooper Crouse-Hinds’ LED luminaires on average consume 50% less energy than HID luminaires and 85% less energy than incandescent luminaires.

- LED luminaires provide higher lumens per watt as compared with many traditional lighting technologies (incandescent, compact fluorescent, HID).

Bright Lights, Big Benefits

In addition to extreme long life and energy efficiency, Cooper Crouse-Hinds’ LEDs also offer these advantages:

- **Disposal** – LEDs contain no mercury or other hazardous substances, thereby reducing disposal costs and limiting future liability.

- **Retrofittable mounting modules** – Compact modular fixtures attach to existing Cooper Crouse-Hinds installed mounting modules, reducing installation costs.

- **T-ratings** – Low radiated heat improves t-ratings, providing safe operation in the most hazardous environments.

- **Color temperature** – Cooper Crouse-Hinds offers a variety of color temperatures to meet customers’ needs.
Pro Series Industrial

Primary Applications
Industrial areas requiring frequent on-and-off of lights, and areas that are difficult to relamp or that cause production to be stopped during the lamp maintenance process, such as warehouses, outdoor areas, production facilities, etc.

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Champ® Pro PVM (5 models)</td>
<td>High Bay 70W-400W HID</td>
<td>Up to 58%</td>
</tr>
<tr>
<td>Champ® Pro PFM (4 models)</td>
<td>High Bay Floodlight 100W-400W MH</td>
<td>Up to 57%</td>
</tr>
<tr>
<td>Vaporgard™ Pro P2L (1 model)</td>
<td>Pendant 100W-200W Incandescent 50W HID</td>
<td>Up to 85%</td>
</tr>
</tbody>
</table>

Certifications & Compliances
• UL1598
• UL1598A
• cUL
• NEMA 4X
• IP66; IP67; IP68

Electrical Ratings
Voltages: 100-277VAC (PVM, PFM, P2L), 347/480VAC (PVM, PFM), 108-250VDC (PVM, PFM), 12-24VDC (P2L)

Design Features
A Customized heat sinks - Cooper Crouse-Hinds’ heat sinks are specifically engineered to remove heat from the LEDs and drivers to ensure longer life, better lumen output and accurate color temperature.
B Retrofittable mounting modules - Compact modular fixtures attach to existing Cooper Crouse-Hinds installed mounting modules, reducing installation costs.
C Long life LEDs eliminate maintenance cost - Cooper Crouse-Hinds’ luminaires remove the high maintenance costs associated with traditional lamps.
**Primary Applications**

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

**Luminaire Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMV3L</td>
<td>70W-100W</td>
<td></td>
</tr>
<tr>
<td>VMV5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>VMV7L</td>
<td>150W-175W</td>
<td></td>
</tr>
<tr>
<td>VMV9L</td>
<td>175W-200W</td>
<td></td>
</tr>
<tr>
<td>VMV11L</td>
<td>200W-400W</td>
<td>58%</td>
</tr>
</tbody>
</table>

**Certifications & Compliances**

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Groups E, F, G
- Class III
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- Type 4X, IP66
- II 3 G Ex nA II (T4 at 55°C)
- II 3 G Ex nA II (T5 at 40°C)

**Electrical Ratings**

Voltages: 100-277VAC, 347/480VAC, 108-250VDC
Input Power: 47W, 70W, 98W, 137W

**Options and Accessories**

- Quick Clip
- Diffuse Lens
- Teflon Coated Lens
- Polycarbonate Lens

**Design Features**

- **Modular design** - This contractor-friendly design is ideal for both retrofit and new construction applications.
- **Safe, reliable heat transfer** - A durable extrusion provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.
- **High efficiency drivers** - Designed to provide reliable operation in even the harshest environments.
- **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.
Primary Applications
Indoor and outdoor area lighting in manufacturing plants, heavy industrial chemical and petrochemical facilities, platforms, loading docks, and parking areas.

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMV 5L</td>
<td>100W-150W</td>
<td></td>
</tr>
<tr>
<td>FMV 7L</td>
<td>150W-175W</td>
<td>57%</td>
</tr>
<tr>
<td>FMV 9L</td>
<td>175W-250W</td>
<td></td>
</tr>
<tr>
<td>FMV 11L</td>
<td>250W-400W</td>
<td></td>
</tr>
</tbody>
</table>

Certifications & Compliances
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Groups E, F, G (Pending)
- Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- II 3 G Ex nA II (Pending)
- EN60079-0:2006, EN60079-15:2006 (Pending)
- II 3 D tC A22 IP66 (Pending)
- IEC60079-31: 2008 (Pending)

Electrical Ratings
Voltages: 100-277VAC, 347/480VAC, 108-250VDC
Input Power: 64W, 94W, 126W, 188W

Options and Accessories
- Fused
- Bolt-on Visor
- Bolt-on Wire Guard
- Floodlight Slipfitter
- Slipfitter Wall Mount Adapter

Up to 6 times longer life and 57% reduction in power consumption compared to typical HID floodlights

Design Features

A Versatile design - Suitable for hazardous location use in gas or dust areas. 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 +55°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 - High efficiency drivers and LED arrays provide reliable low cost operation in harsh and hazardous environments.

D Full-frame yoke - Designed to utilize the SF6 slipfitter and SW6 wall mount bracket, making it ideal for retrofit or new installations.
Vaporgard™ LED

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</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2L</td>
<td>100W-200W Incandescent</td>
<td>85%</td>
</tr>
<tr>
<td></td>
<td>50W HID</td>
<td>50%</td>
</tr>
</tbody>
</table>

Certifications & Compliances
- Class I, Division 2, Groups A, B, C, D
- UL844
- UL1598 Marine (pendant mount); UL1598 Wet Locations (ceiling and wall mount)
- CSA C22.2 No. 137
- NEMA 4X (pendant mount); NEMA 3X (ceiling and wall mount)
- IP66
- RoHS Compliant

Electrical Ratings
Voltages: 90-264VAC, 277VAC, 12-24VDC
Input Power: 25W

Options and Accessories
- Frosted Lens
- Teflon Coated Lens
- High Temperature Option (55°C)
- Warm White (3000K) and Cool White (5600K) Color Temperatures
- 12VDC/24VDC 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 Cooper 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.
Primary Applications
Used to provide reliable illumination for egress areas during failure or interruption of power to the normal lighting system.

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2LPS</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

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

Electrical Ratings
Power Supply:
- Input: 120, 220, 230, 240, 277VAC; 28W max.
- Output: 12VDC

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

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

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Rating</th>
<th>Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex-Lite Z</td>
<td>Hazardous</td>
<td>No</td>
</tr>
<tr>
<td>Ex-Lite ZE</td>
<td>Hazardous</td>
<td>Yes</td>
</tr>
<tr>
<td>CCH UX</td>
<td>Industrial</td>
<td>Optional</td>
</tr>
</tbody>
</table>

Certifications & Compliances

Ex-Lite:
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 1, AEx em ib IIC (NEC)
- Class I, Zone 1, Ex em ib IIC (CEC)
- Class II, Division 2, Groups F, G (NEC)
- Class II, Division 2, Groups E, F, G (CEC)
- IP66
- UL844
- UL924/CSA22.2 No. 141-02
- UL60079/CSA22.2 E60079
- UL1203/CSA22.2 E6124-1-1-02

CCH UX:
- NEMA 4X; UL50
- UL924 Wet Location
- IP65; IP66

Electrical Ratings

Voltages: 120-277VAC, 110-250VDC (Ex-Lite only)
Power Consumption: 6VA

Design Features

A) Corrosion- and impact-resistant housing - Ensures long product life and reliability.
B) Nickel cadmium battery - Premium heavy duty nickel cadmium battery with 24-hour charge and recharge time increases safety by recovering quickly from an outage.
C) “EXIT” legend with alternative directional arrows - Left, right, or left and right; simple field modification (Ex-Lite only).
LL48 LED

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

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL48</td>
<td>2 x 36W fluorescent light</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>2 x 58W fluorescent light</td>
<td>50%</td>
</tr>
</tbody>
</table>

Certifications & Compliances
• Class I, Division 2 / Zone 2
• Ex nA II T6 / Ex nR II T6 DIP A21 TA, T80°C IP66
• NEPSI: GYJ101419
• GB3836.1-2000, GB3836.8-2003, GB12476.1-2000

Electrical Ratings
Voltages: 100-277VAC 50/60 Hz

Options and Accessories
• Ex nA or Ex nR
• Multiple mounting accessories: ceiling, wall, pole

Design Features
A Luminaire is designed to match the footprint of a traditional linear fluorescent fixture.
B Same light pattern and lumen output at a fraction of the energy cost.
C Diffuse lens reduces glare.
D Shock- and vibration-resistant LEDs contain no mercury, eliminating costly lamp disposal programs.

Up to 50% more energy efficient than a 2 x 36W and 2 x 58W fluorescent light, and 8 times the rated life
Primary Applications
Indoor and outdoor areas with low mounting heights or confined spaces, such as aisles, tunnels and catwalks, over doorways or entries, landing areas, utility rooms, etc.

Luminaire Models

<table>
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<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAL05</td>
<td>100W Incandescent</td>
<td>85%</td>
</tr>
<tr>
<td></td>
<td>40W CFL</td>
<td>60%</td>
</tr>
</tbody>
</table>

Certifications & Compliances
- Ex d IIC T6 DIP A21 TA, T80˚C
- NEPSI: GYB101091X

Electrical Ratings
Voltages: 110-240VAC 50/60 Hz

Options and Accessories
- Wide beam or narrow beam
- Normal environment temperature or cold environment temperature
- Multiple mounting patterns, including ceiling, recess, wall, and pole mounting

Design Features
- Small footprint, ideal for low mounting heights in applications where space is critical.
- Flexible mounting options - Allow you to target the light output where you need it.

85% more energy efficient than a 100W incandescent, and 20 times the rated life
LPL LED

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</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPL04-C60-60W</td>
<td>70W/100W MH</td>
<td></td>
</tr>
<tr>
<td>LPL04-C60-85W</td>
<td>150W MH</td>
<td>Up to 50%</td>
</tr>
<tr>
<td>LPL04-C60-100W</td>
<td>175W MH</td>
<td></td>
</tr>
<tr>
<td>LPL06-C60-125W</td>
<td>175W-250W MH</td>
<td></td>
</tr>
<tr>
<td>LPL06-C60-150W</td>
<td>250W MH</td>
<td></td>
</tr>
</tbody>
</table>

Certifications & Compliances
- II 2 GD Ex d e IIC T6 Gb
- II 2 GD Ex tb IIIIC T80°C Db IP66
- DNV 11 ATEX 06805X
- IP66

Electrical Ratings
Voltages: 100-277VAC
Input Power: 60W, 85W, 100W, 125W, 150W

Options and Accessories
- Warm White Color Temperature (3300K)
- Pole Mount Option

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 - Provides over 50,000 hours of life.
C Lead-free and environmentally-friendly.
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</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVLL5L</td>
<td>100W-150W MH</td>
<td></td>
</tr>
<tr>
<td>EVLL7L</td>
<td>150W-175W HPS/MH</td>
<td></td>
</tr>
<tr>
<td>EVLL9L</td>
<td>175W-250W MH</td>
<td>Up to 62%</td>
</tr>
<tr>
<td>EVLL11L</td>
<td>250W-400W HPS/MH PS</td>
<td></td>
</tr>
<tr>
<td>EVLL13L</td>
<td>400W HPS/MH PS</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

Electrical Ratings
Voltages: 100-277VAC, 108-250VDC

Options and Accessories
- Trunnion Mount Option (S812)
- Guard Option
- Warm White Color Temperature (3000K)

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 - Solid-state luminaires have no filaments or glass components that could break, greatly reducing the risk of premature failure.
EV LED

Primary Applications
Where flammable vapors, gases, ignitable dusts, fibers or flyings are present; indoors or outdoors.

Luminaire Models

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

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

Electrical Ratings
Voltages: 100-277VAC, 10-30VDC
Input Power: 30W, 26W, 36W

Up to 85% reduction in energy costs and 50K hours of continuous operation

Options and Accessories
- Wildlife Friendly Model

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 Dark sky compliant light distribution - Certified by the International Dark Sky Association as Dark Sky Compliant, virtually no light pollution will escape up into the atmosphere.
C 20 times longer life than incandescents in tough-to-maintain Division 1 locations.
**EV35 LED**

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

**Luminaire Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV35</td>
<td>100W-150W Incandescent</td>
<td>78%</td>
</tr>
<tr>
<td></td>
<td>50W Mercury Vapor</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Certifications & Compliances**
- Group II 2 GD (Zone 1)
- Gas: Ex d IIC T6 Gb
- Dust: Ex t IIC T85°C Db
- Certificate: LOM 10 ATEX 2075
- IP66

**Electrical Ratings**
Volts: 220-240V
Input Power: 32W

**Options and Accessories**
- Internal high polished aluminum reflector for down light applications
- Direct entries or indirect entries via Connection Box

**Design Features**

A) **Wide ambient temperature range from -40°C to +55°C** - Allows installation and safe use in nearly every climatic condition.

B) **High power LED module** - Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.

C) **Safe, reliable heat transfer** - Heat sink connected to copper-free aluminum housing to safely and effectively remove heat from the LED module and driver, therefore offering a T-rating of T6.
AB05 LED

Primary Applications
Confined or restricted spaces, such as stairwells, storage areas and corridors requiring consistent light.

Luminaire Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Equivalent Light Output</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB05</td>
<td>150W Incandescent</td>
<td>Up to 80%</td>
</tr>
</tbody>
</table>

Certifications & Compliances

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

Electrical Ratings
Voltages: 120-240VAC
Input Power: 32W

Design Features

- **Shock- and vibration-resistant** - Durable vibration-resistant LEDs decrease maintenance costs.
- **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.
- **Instant illumination and restrike** - Decreases facility downtime; no warm-up time required.
For more information:
If further assistance is required, please contact an authorized Cooper Crouse-Hinds Distributor, Sales Office, or Customer Service Department.

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Your Authorized Cooper Crouse-Hinds Distributor is:

For more information on LED luminaires, please visit www.crouse-hinds.com/ledluminaires