Rugged versatility
LED lighting solutions by Eaton
Mining is an around-the-clock operation where employee safety and zero downtime are critical requirements. You need to maximize your efficiency and minimize the risk of damage to equipment or personnel. You need a partner like Eaton.

Eaton offers a large portfolio of innovative and reliable LED products for mine-related applications, and the broadest portfolio of LED luminaires for any industrial or hazardous application.

We utilize more than 100 years of lighting expertise to optimize the benefits of LED technology to offer the safest and most reliable LED luminaires on the market today.
LED lighting solutions engineered for mining

- **Champ® Series LED Floodlights**: high output & durable floodlights
- **Champ® Series LED Luminaires**: targeted illumination for multiple locations
- **Vaporgard™ Series LED Luminaires**: rugged, dependable task lighting
- **LL48 Linear LED Luminaires**: compact and low profile linear luminaires
- **Vaportite Linear LED**: modular designed linear luminaire
- **Encounter™ LED Series**: unmatched optical performance
- **HB Series LED High Bay**: versatile & efficient high bay luminaires
- **Endure™ LED**: wall or ceiling mount, versatile & efficient
- **Crosstour™ MAXX LED**: rugged, architectural style wall pack
- **XNV Roadway LED Luminaire**: high performance, economical design
- **NVN Navion LED Roadway Luminaire**: outstanding optical performance
- **Light-Pak™ N2LPS Emergency Luminaire**: compact & reliable emergency lighting
- **CCH UX Series Exit Lighting**: exit lighting for any environment

Engineered for mining LED lighting solutions by Eaton.
Eaton LED lighting locations

Eaton designs and manufactures a wide array of LED lighting solutions that save you energy and reduce recurring maintenance costs. Eaton LED luminaires provide mine sites with flexibility and multiple fixture options usable in a variety of applications.

1 Conveyors
2 Equipment
3 Tunnels
4 Maintenance
5 Warehouse
6 Processing Areas
7 Stackers/Reclaimers
8 Offices
9 Walkways
10 Roadways
11 Parking Lots

---

**Floodlight**
- Champ® Series LED Floodlights
  - Walkways
  - Parking lots
  - Equipment
  - Conveyors
  - Stackers/reclaimers
  - Maintenance

**Targeted**
- Champ® Series LED Luminaires
  - Conveyors
  - Stackers/reclaimers
  - Processing areas
  - Equipment
  - Maintenance

**Task**
- Vaporgard™ Series LED Luminaires
  - Processing areas
  - Equipment
  - Maintenance
  - Tunnels

**Linear & troffer replacement**
- LL48 Linear LED Luminaires
  - Processing areas
  - Equipment
  - Maintenance
  - Tunnels

- Vaportite Linear LED Luminaires
  - Processing areas
  - Equipment
  - Maintenance
  - Tunnels

- Encounter™ LED Series Troffer Replacements
  - Office
  - Non-industrial
  - Administrative areas

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4 EATON LED lighting solutions for mining.
Champ® Pro PFM Series Floodlights

Overview
Champ® Pro PFM Series Floodlights are designed to provide full-spectrum, crisp, white light. Seven versions of the Champ PFM LED are available for pole and wall mounting, providing ideal solutions for a wide range of applications.

LED system
- High brightness LEDs
- Color temperature: warm and cool options available
- Advanced heat sink design ensures low LED junction temperature and sustained lumen performance
- Redundant drivers provide reliable operation in the harshest environments

Certifications
- UL1598
- UL1598A
- cUL
- NEMA 4X
- IP66
- DesignLights Consortium® approved for select models
- UL approved up to 40°C ambient

Benefits
- Instant illumination and restrike
- Cold temperature operation; no warm-up time
- Available for wall and surface mounting
- Operating temperature range: -30°C to +55°C (-30°C to +40°C for 25L & 50L)
- Options include: Diffused glass or polycarbonate lens, bolt-on wire guard, bolt-on visor and slipfitter mounting adapters

Model Number | Equivalent HID Luminaire | Typical Energy Savings/Lifetime
--- | --- | ---
PFM5L | 100W-150W | Up to 65% reduction in energy costs and 60,000 hours of continuous operation!
PFM7L | 150W-175W | 
PFM9L | 175W-250W | 
PFM11L | 250W-320W | 
PFM13L | 320W-400W | 
PFM25L | 750W-1000W | 
PFM50L | 1500W | 

Aiming Range

Shown with optional dark sky visor and wire guard
Champ® Pro PVM Series LED Luminaires

Overview
Champ® Pro PVM Series Luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution. Nine versions of the PVM Series are available, providing ideal solutions for a wide range of applications.

Certifications
- UL1598
- UL1598A
- cUL
- NEMA 4X
- IP66
- DesignLights Consortium® approved for select models
- UL approved up to 55°C ambient

Benefits
- Instant illumination and restrike
- Cold temperature operation; no warm-up time
- Operating temperature range: -40°C to +55°C
- Optional occupancy sensor available for increased energy savings

LED system
- High brightness LEDs
- Color temperature: warm and cool options available
- Advanced heat sink design ensures low LED junction temperature and sustained lumen performance
- Redundant drivers provide reliable operation in the harshest environments
- Custom optics provide IES Type I, III and V light patterns

Model Number | Equivalent HID Luminaires | Typical Energy Savings/Lifetime
--- | --- | ---
PVM3L | 70W-100W | 79% reduction in energy costs and 60,000 hours of continuous operation!
PVM5L | 100W-150W |
PVM7L | 150W-175W |
PVM9L | 175W-250W |
PVM11L | 250W-320W |
PVM13L | 320W-400W |
PVM17L | 400W-600W |
PVM21L | 600W-750W |
PVM25L | 750W-1000W |

The Champ® Pro PVM is an ideal luminaire for illuminating conveyor belts and walkways. Optics allow for increased visibility and performance.
Champ® FMV Series Floodlights

Overview
Champ® FMV Series Floodlights are hazardous location rated and are designed to provide full-spectrum, crisp, white light. Five versions of the Champ FMV LED are available for pole and wall mounting, providing ideal solutions for a wide range of hazardous area applications.

LED system
- High brightness LEDs
- Color temperature: warm and cool options available
- Advanced heat sink design ensures low LED junction temperature and sustained lumen performance
- Redundant drivers provide reliable operation in the harshest environments

Certifications
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Groups E, F, G
- Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137

Benefits
- Instant illumination and restrike
- Cold temperature operation; no warm-up time
- Available for wall and surface mounting
- Operating temperature range: -30°C to +55°C
- Options include: Diffused glass or polycarbonate lens, bolt-on wire guard, bolt-on visor and slipfitter mounting adapters

Table:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMV5L</td>
<td>100W-150W</td>
<td>Up to 65% reduction in energy costs and 60,000 hours of continuous operation!</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-320W</td>
<td></td>
</tr>
<tr>
<td>FMV13L</td>
<td>320W-400W</td>
<td></td>
</tr>
</tbody>
</table>

Aiming Range

45° PAST VERTICAL

60° BEFORE VERTICAL

Shown with optional dark sky visor and wire guard

hazardous area rated
Champ® VMV Series LED Luminaires

Overview
Champ® VMV Series Luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution. Nine versions of the VMV Series are available, providing ideal solutions for a wide range of hazardous area applications.

LED system
- High brightness LEDs
- Color temperature: warm and cool options available
- Advanced heat sink design ensures low LED junction temperature and sustained lumen performance
- Redundant drivers provide reliable operation in the harshest environments
- Custom optics provide IES Type I, III and V light patterns

Benefits
- Instant illumination and restrike
- Cold temperature operation; no warm-up time
- Operating temperature range: -40°C to +55°C

Certifications
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, Zone 21 tb
- Class II, Groups E, F, G
- Class III
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- Type 4X, IP66
- IECEx/ATEX Certified
- DesignLights Consortium® approved for select models

The Champ® VMV is an ideal luminaire for illuminating conveyor belts and walkways. Optics allow for increased visibility and performance.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</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-250W</td>
<td></td>
</tr>
<tr>
<td>VMV11L</td>
<td>250W-320W</td>
<td>Up to 79% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>VMV13L</td>
<td>320W-400W</td>
<td></td>
</tr>
<tr>
<td>VMV17L</td>
<td>400W-600W</td>
<td></td>
</tr>
<tr>
<td>VMV21L</td>
<td>600W-750W</td>
<td></td>
</tr>
<tr>
<td>VMV25L</td>
<td>750W-1000W</td>
<td></td>
</tr>
</tbody>
</table>
Vaporgard™ Pro LED Series Luminaires

Overview
Vaporgard™ LED Luminaires are suitable for lower mounting heights, confined spaces, tunnels or utility rooms. This fixture delivers similar light levels to a 200W incandescent and is available in cool or warm white light.

Certifications
- UL1598
- UL1598A
- cUL
- NEMA 4X
- IP66
- DesignLights Consortium® approved for select models

Benefits
- Instant illumination and restrike
- Cold temperature operation; no warm-up time
- 22W LED system can save up to 85% in energy costs
- Operating temperature range: -30°C to +55°C

LED system
- High brightness LEDs
- Color temperature: warm and cool options available
- Advanced heat sink design ensures low LED junction temperature and sustained lumen performance
- Redundant drivers provide reliable operation in the harshest environments

Typical Mounting Options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2LC/UNV1</td>
<td>50W HID or 100-200W incandescent</td>
<td>Up to 85% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>P2LW/UNV1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P2LC/DC1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P2LW/DC1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LL48 Linear LED Luminaires

Overview
LL48 LED Luminaires allow for the replacement of existing harsh and hazardous industrial fluorescent fixtures.
Used for general lighting in indoor and outdoor areas with low mounting heights or confined spaces, such as aisles, tunnels and catwalks, over doorways or entries, landing areas and utility rooms.

Design features
• Designed to match the footprint of a traditional linear fluorescent fixture
• Same light pattern and lumen output at a fraction of the cost versus fluorescent

Benefits
• Linear LEDs can withstand extreme temperatures and vibration that would cause traditional technologies to fail
• Operating temperature range: -35°C to +55°C
• Versatile mounting options; uses the same mounts as eLLK/nLLK Series

Certifications
• Class I, Division 2, Groups A, B, C, D
• NEMA 4X
• IP66
• UL Listed and CSA Certified
• Marine and Wet Locations

Typical Mounting Options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL48-60W-765/-F-1M</td>
<td>2x58W fluorescent</td>
<td>Up to 50% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
<tr>
<td>LL48-60W-765/-C-1M</td>
<td>2x58W fluorescent</td>
<td></td>
</tr>
<tr>
<td>LL48-60W-765/-F-1N</td>
<td>2x58W fluorescent</td>
<td></td>
</tr>
<tr>
<td>LL48-60W-765/-C-1N</td>
<td>2x58W fluorescent</td>
<td></td>
</tr>
</tbody>
</table>
**Overview**

The Vaportite LED Series is an energy-efficient industrial vapor-tight fixture that features rugged and durable construction. The Vaportite LED incorporates a full metal fixture liner inside a reinforced fiberglass housing with a high impact diffuser. This Vaportite Series is suitable for interior and exterior applications and can be surface or chain mounted.

**Certifications**

- DesignLights Consortium® approved for select models*

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**Design features & benefits**

- Ideal for cold storage applications
- LEDs available in 3500K or 4000K with 85 CRI
- Wet location rated
- Narrow and wide distributions
- 2’ and 4’ housings
- Modular design with quick disconnects
- 0-10V dimming driver is standard

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT-LD2-58DR-UNV-L840-CD2-WL-U</td>
<td>150W metal halide</td>
<td>60%</td>
</tr>
<tr>
<td>VT-LD2-30DR-UNV-L840-CD1-WL-U</td>
<td>100W metal halide</td>
<td>70%</td>
</tr>
</tbody>
</table>

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**Dimensions**

- 41-1/2" [1054mm]
- Optional Back Hub locations
- 28-3/16" [714mm]
- 1/4" x 28" Stud (2 Places)
- 6-1/8" [168mm]
- X-6-1/8" [157mm]
- Y-5-7/8" [102mm]

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**Typical mounting options**

- Mounting brackets
- Chain hanging set

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* EATON LED lighting solutions for mining
Cooper Lighting
by EATON

Encounter™ LED Series

Overview
The Metalux Encounter™ Series redefines ambient lighting by blending contemporary styling with Cooper Lighting’s proprietary WaveStream™ technology. The result is exceptional performance and superior energy savings – all at an affordable price. The highly efficient LED system with advanced optical design delivers optimal light uniformity, resulting in soft, natural light for superior visual comfort. Encounter is a perfect balance of form and function, making it an ideal choice for commercial interiors.

Certifications
- cULus – Damp Location Listed
- IC Rated
- RoHS Listed
- LM79/LM80 Compliant
- DesignLights Consortium® Qualified
- NOM Compliant
- CA Title 24

Design features & benefits
- Available in 2' x 2', 2' x 4', 1' x 4' and 1' x 2' recessed versions
- Leverages our patented WaveStream Technology with AccuAim™ optics
- Advanced optical control with optimal illumination
- High performance efficacy up to 105 lumens per watt
- Over 45% energy savings when compared to fluorescent troffers
- Three CCT options: 3000K, 3500K and 4000K at 85 CRI
- Five stocked lumen packages offered, along with multiple MTO options
- Standard 0-10V continuous dimming driver
- 2x2: L85 at 60,000 hours; 2x4: L78 at 60,000 hours with 5 year warranty

Dimensions and mounting options

2 x 2

2 x 4

Equivalent fluorescent luminaire and typical energy savings/lifetime

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent fluorescent luminaire</th>
<th>Typical energy savings/lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>22EN-LD1-34-UNV-L835-CD1-U</td>
<td>Parabolic troffer with (2) U6T8 lamps</td>
<td>45%</td>
</tr>
</tbody>
</table>

Lamp configurations

![Lamp configurations diagram]
IHB Series LED High Bay Luminaires

Overview
IHB Series LED Luminaires are the perfect replacement for 400W HID and 4-6 lamp T5HO fluorescent high bay fixtures. The IHB is designed for locations requiring continuous and consistent light levels and areas that are difficult to maintain.

Certifications
- Meets UL1598 and cUL construction requirements
- DesignLights Consortium® approved for select models

Design features & benefits
- High efficiency serviceable drivers
- Powder coated white painted sheet metal body
- Mounting bracket for ¾” pendant mount conduit or aircraft cable hook/cord mounting option
- Available with optional occupancy sensor
- Aluminum heat sinks for superior thermal management
- Two discrete LED boards for uniform illumination
- Tempered and clear glass lens cover

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHB13L2A/UNV1</td>
<td>400W</td>
<td>Up to 69% reduction in energy costs and 60,000 hours of continuous operation!</td>
</tr>
</tbody>
</table>

Dimensions

Typical mounting options
Overview
The HB LED is an outstanding value for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs and color temperatures make the energy-efficient HB LED the ideal solution for high bay applications.

Certifications
- cULus - Damp Location Listed
- 50° ambient rating
- RoHS Compliant
- DesignLights Consortium® approved for select models

Design features & benefits
- Three lumen package options (9000, 18,000 and 24,000)
- Two correlated color temperatures (4000K and 5000K)
- 80+ CRI
- L70 at 50,000 hours
- High efficacy with 90+ LPW
- Tool-less driver access for easy maintenance
- Precision optics – general and wide distribution
- Optional 0-10V dimming driver (15% - 100%)
- Multiple lens and wire guard options
- 5 year warranty

Dimensions

4' Housing
- 20-1/4" [512mm]
- 48-7/16" [1231mm] (23,000 lumens)

3' Housing
- 20-1/4" [512mm]
- 37-1/16" [941mm] (18,000/9,000 lumens)

End view

Model Number | Equivalent HID Luminaire | Typical Energy Savings/Lifetime
--- | --- | ---
HBLED-LD2-9-W-UNV-L850-ED1-U | 175W metal halide | 40%
HBLED-LD2-18-W-UNV-L850-ED2-U | 250W metal halide | 30%
HBLED-LD2-24-W-UNV-L850-ED3-U | 400W metal halide | 40%
maximize efficiency

Endure™ LED Wall or Ceiling

Overview
The IP66, stainless steel Endure™ LED Wall Pack features the patented, modular LED LightBAR™ technology. The Endure LED Luminaire is available with one or two LightBAR configurations in Type II or Type V distributions.

Certifications
- UL1598
- cUL
- IP66

Design Features
- 4 point mounting for quick wall or ceiling mounting
- 50,000+ hour life with >70% lumen maintenance
- 98 lumens per watt; 0.9 power factor
- -30°C to 50°C ambient temperature rating
- Designed for indoor or outdoor use

Benefits
- Optics: Type V for general illumination or Type II for narrow illumination. Ideal for conveyors or walkways.
- Controlled distribution of light means far less light loss
- Available in 316 stainless steel
- Glass or polycarbonate lens options available

Certifications
- UL1598
- cUL
- IP66

Model Number | Equivalent HID Luminaire | Typical Energy Savings/Lifetime
---|---|---
FM1 B01 | 50W | 59%
FM1 B02 | 70W | 43%

Dimensions

Top View (2 LightBAR Configuration Shown)

End View

Side View

Mounting

8" [200mm]

13.7" [348mm]

17.1" [434mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]

8.5" [215.1mm]

10" [254mm]

3.7" [94mm]

5.75" [145.9mm]
Cross Tour MAXX Wall Pack/Area Site

Overview
The Crosstour™ MAXX LED Wall Pack Series Luminaires provide low profile architectural style with super bright, energy-efficient LEDs. The rugged die cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants.

Certifications
- UL/cUL Wet Location Listed
- LM79/LM80 Compliant
- RoHS Compliant
- ARRA Compliant
- NOM Compliant Models
- 3G Vibration Tested
- UL924 Listed (CBP Models)
- IP66 Rated
- Lighting Facts® Registered
- DesignLights Consortium® approved for select models

Design features & benefits
- Wall, inverted or pole mount. Energy saving replacement up to 400W HID
- Patent pending, heavy duty construction, maximum LED performance
- Die cast aluminum, low profile design with hinged removable door
- 50W and 85W full cutoff and refractive lens models
- Sealed LED optical chamber with 5000K or 3500K (CCT) LEDs
- Rated for -40°C to 40°C. High ambient 50°C available
- Options include: pole mount arm, dimming and occupancy sensors
- Emergency egress battery pack
- 5 year warranty

Dimensions and mounting options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>XTOR5A</td>
<td>250W</td>
<td>83%</td>
</tr>
<tr>
<td>XTOR5ARL</td>
<td>250W</td>
<td></td>
</tr>
<tr>
<td>XTOR9A</td>
<td>400W</td>
<td>82%</td>
</tr>
<tr>
<td>XTOR9ARL</td>
<td>400W</td>
<td></td>
</tr>
</tbody>
</table>
Cooper Lighting
by EATON

NVN NAVION Roadway LED Luminaire

Overview
The NAVION Roadway LED Luminaire combines world-class optical performance, energy efficiency and outstanding versatility to meet the requirements of any roadway application. Patented AccuLED™ optics technology delivers unparalleled uniformity and budget-beating operating costs for municipal streets and highways. UL/cUL Listed for wet locations, IP66 enclosure rating available.

Design features & benefits
• Tool-less entry; hinged removable power door for easy maintenance
• 10kV surge protection
• Suitable for operation in -40°C to 40°C environments
• L90 60,000 hours at 40°C
• 3G vibration rated
• IP66 LED panels
• 5 year warranty

Certifications
• UL and cUL Wet Location Listed
• IP66 LED Panels
• 3G Vibration Rated
• ARRA Compliant
• ISO9001

Model Number | Equivalent HID Luminaire | Typical Energy Savings/ Lifetime
--- | --- | ---
NVN-AA-01-E-U-T3A-10K-4-AP | 100W | 70%
NVN-AA-02-E-U-T3A-10K-4-AP | 200W | 49%
NVN-AA-04-E-U-T3A-10K-4-AP | 350W | 42%
Overview
The XNV LED Roadway Luminaire combines high-performance optics and a simple, economical design to deliver uniform illumination, low maintenance costs and rugged, user-friendly construction. It is designed for years of worry-free operation and is ideal for retrofits where a quick payback is as important as lighting performance.

Certifications
- UL and cUL Wet Location Listed
- IP66 Light Square
- 3G Vibration Rated
- ARRA Compliant
- UL 1449 Surge Protection
- ISO 9001

Design features & benefits
- Tool-less entry; hinged removable power door for easy maintenance
- 10kV surge protection
- Suitable for operation in -40°C to 40°C environments
- L90 60,000 hours at 40°C
- 3G vibration rated
- IP66 LED panels
- 5 year warranty

Dimensions and mounting options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Equivalent HID Luminaire</th>
<th>Typical Energy Savings/ Lifetime</th>
</tr>
</thead>
<tbody>
<tr>
<td>XNV-AC-01-E-U-2-10K-4-AP</td>
<td>100W</td>
<td>70%</td>
</tr>
<tr>
<td>XNV-AC-01-E-U-3-10K-4-AP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XNV-AC-01-E-U-5-10K-4-AP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Crouse-Hinds
by EATON

Light-Pak™ N2LPS LED Emergency Lighting System

Overview
Light-Pak™ N2LPS LED Emergency Lighting Systems are used to provide reliable illumination for egress areas, to illuminate machinery or panels during failure or interruption of power to the normal lighting system. Also used where moisture, dirt, dust or corrosion will limit the life and reliability of ordinary emergency lighting systems.

Certifications
- NEC/CEC:
  - Class I, Division 2, Groups B, C, D, Zone 2; Class II, Division 1, Groups F, G
- UL Standards: 1598A; 924; 844
- Life Safety Code NFPA101® – Section 5-9
- Marine Wet Locations Suitability
- Type 4X

Benefits
- High temperature rated nickel cadmium battery option available for reliable operation up to 55°C ambient
- Solid state battery charger for long life and reliable battery operation prevents deep discharge by automatically disconnecting the battery from the luminaire
- Factory-installed “push-to-test” button
- Self-test, monitoring and diagnostics reduce costly maintenance checks
- Remote luminaire head assemblies (one or two) are available for mounting of luminaire heads away from main power system

LED System
- Compact, factory-assembled luminaire featuring LED lamps for improved lumen performance and lifetime
- Durable and marine rated LED lamp head assemblies provide protection against water ingress, corrosion and impact

Model Number Description
N2LPS 3 hour battery life
N2RF 3 hour battery life, remote lamp heads

Dimensions

Model Number Description
N2LPS 3 hour battery life
N2RF 3 hour battery life, remote lamp heads
CCH UX Series Exit Lighting

Overview
The CCH UX NEMA 4X Exit Sign is designed for the most severe environments; the exit sign will provide maximum performance against rain, moisture, cold, corrosives and dust. Universal configurations (single and double face) and universal mounting provide the ease of one product specifying for any job.

Design features & benefits
- Die cast aluminum housing
- Can be ceiling, wall or end mounted
- Watchguard EMS self-diagnostic system
- Universal configurations (single and double face) and universal mounting provide the ease of one product specifying for any job
- Self-diagnostics, photocell testing, LED technology and nickel cadmium battery provide long life and low maintenance
- Injection-molded, clear, polycarbonate shield not only provides protection against moisture and rain, but also vandalism
- Four Torx® head tamper-proof screws with center pin reject provide additional vandal-proof security

Certifications
- Class I, Division 2, Groups A, B, C, D, T5 lamp rating with HAZ option
- NEMA 4X Listed with dual voltage input 120/277 VAC, 60 Hz
- UL FTBR Listed when specified with the “2C” option
- NSF National Sanitation Foundation/Splash Zone (for food processing)
- Suitable for wet and damp locations; meets most state and local codes

Model Number Description
- CCH UX60 Single sided exit sign (AC only)
- CCH UX70 Single sided exit sign (self-diagnostic with battery)
Robust performance above

over 100 years
of proven solutions
and below ground

Crouse-Hinds underground mine train headlight, patented March 23, 1903
For more information:
If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.