

CROUSE-HINDS  
SERIES

B-LINE  
SERIES

# Products & solutions for mining & aggregate



**EATON**

*Powering Business Worldwide*

# Safe. Reliable. Efficient.

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.**

Colowyo Mine, Meeker, Colorado  
Dragline retrofitted with sixteen  
25,000 lumen Champ® Pro PFMA  
Series LED floodlights

# De-risk by design

## Solutions designed to perform in the harshest environments



### LED lighting

Maintenance-free and energy-efficient

The broadest portfolio of LED luminaires for any industrial or hazardous application.



### Plugs & receptacles

Simple and secure powering solutions

Extensive configurations, custom capabilities and numerous interlocked designs provide safe and reliable solutions for fixed and portable power applications in industrial and hazardous environments.



### Conduit & cable fittings

Rugged connectors for extreme conditions

Time-tested, innovative conduit fittings, cord connectors and cable glands move power where you need it simply and safely in any electrical installation.



### Enclosures

Performance and reliability

Available in a comprehensive range of sizes, each with various configurations for a multitude of applications.



### Motor control & power distribution

Flexible and modular solutions

Innovative, intelligent NEC and IEC solutions safely and efficiently control power and protect circuits in explosive, wet and corrosive environments worldwide.



### Support systems

Reduce complexity on the job-site with Eaton's cable tray, cable ladder, pipe hangers, strut systems, grating and other support systems.



### Conveyor solution systems

Rugged and durable

Conveyor belt support, control, alignment and signalling solutions for the harshest conditions.

# Find the right solution

## Area types

### INDUSTRIAL

Areas prone to dust, dirt, grime, vibration, hard use and abuse

### WET LOCATIONS

Protection from windblown dust and rain, splashing and hose-directed water and external formation of ice

### VIBRATION

Locations that need products designed to withstand continuous movement and may require maintenance and repair

### CORROSIVE AREAS

Protection for areas with corrosive chemicals, atmospheres and water

### SPACE CONSTRAINTS

Areas with low ceilings, tight spaces and limited footprint potential

### CLASS I, DIV. 2/ZONE 2

Explosion protection for areas where flammable gases or vapors are not normally present

### CLASS II/ZONES 21 & 22

Protection for areas where ignitable dusts may be present

## Know your challenges

Every site presents unique hurdles. Eaton provides stock and custom Crouse-Hinds series and B-Line series solutions to meet your application requirements.

### 1 Conveyors



**Products used:** LED lighting, plugs & receptacles, control & apparatus, cable glands & fittings, cable management, strut systems and safety grating

### 2 Equipment

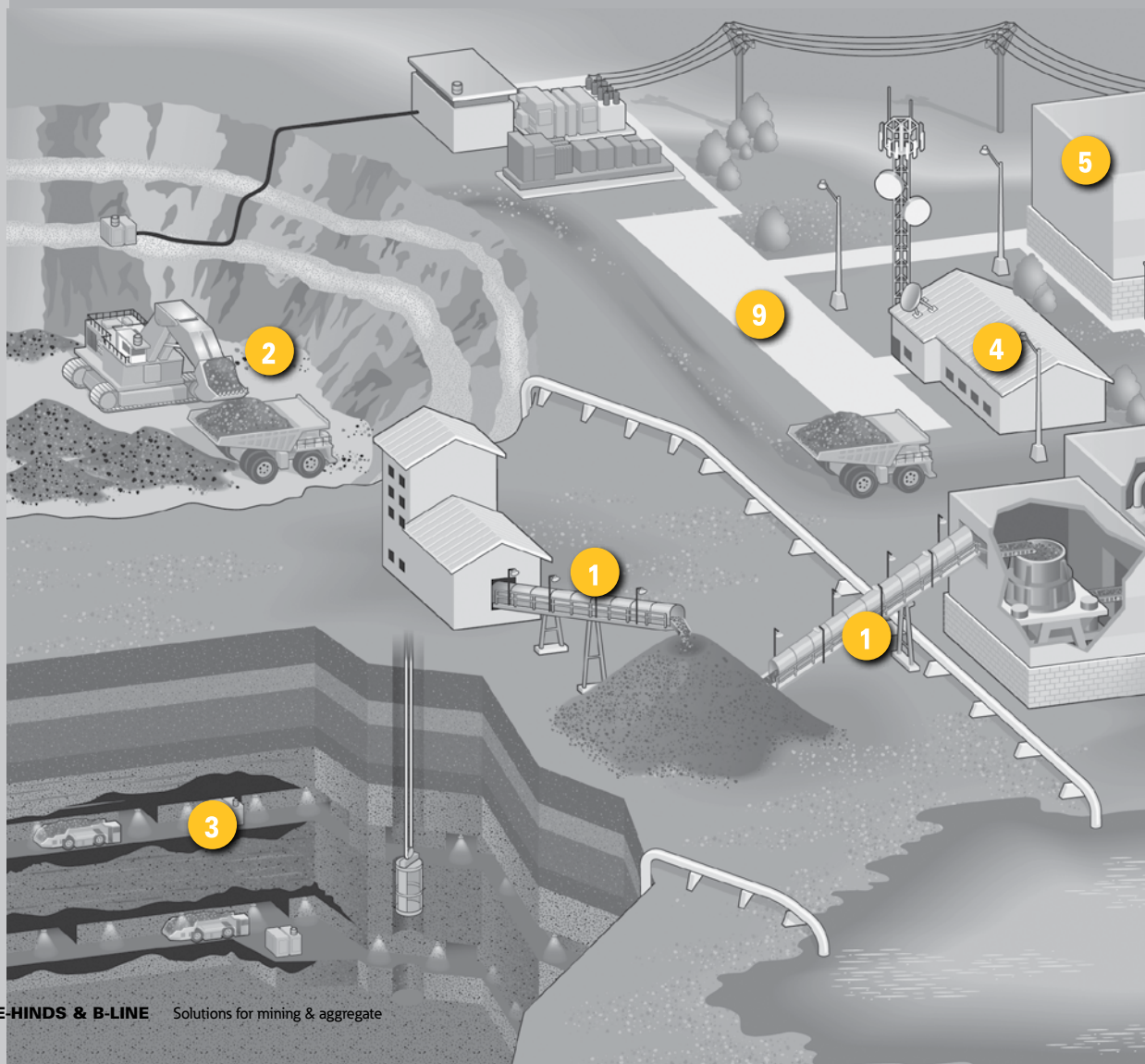


**Products used:** LED lighting, plugs & receptacles, power distribution & control, cable glands & fittings, cable management, strut systems and safety grating

### 3 Tunnels



**Products used:** LED lighting, plugs & receptacles, cable glands & fittings, cable management, strut systems and safety grating



#### 4 Maintenance



**Products used:** LED lighting, plugs & receptacles, cable glands & fittings, hazardous area communications, cable management, mechanical supports and grating

#### 5 Processing areas



**Products used:** LED lighting, plugs & receptacles, power distribution & control, cable glands & fittings, cable management & safety grating

#### 6 Stackers/reclaimers



**Products used:** LED lighting, plugs & receptacles, power distribution & control, cable glands & fittings, cable management & safety grating

#### 7 Walkways



**Products used:** LED lighting, plugs & receptacles, cable glands & fittings, cable management, strut systems and safety grating

#### 8 Roadways

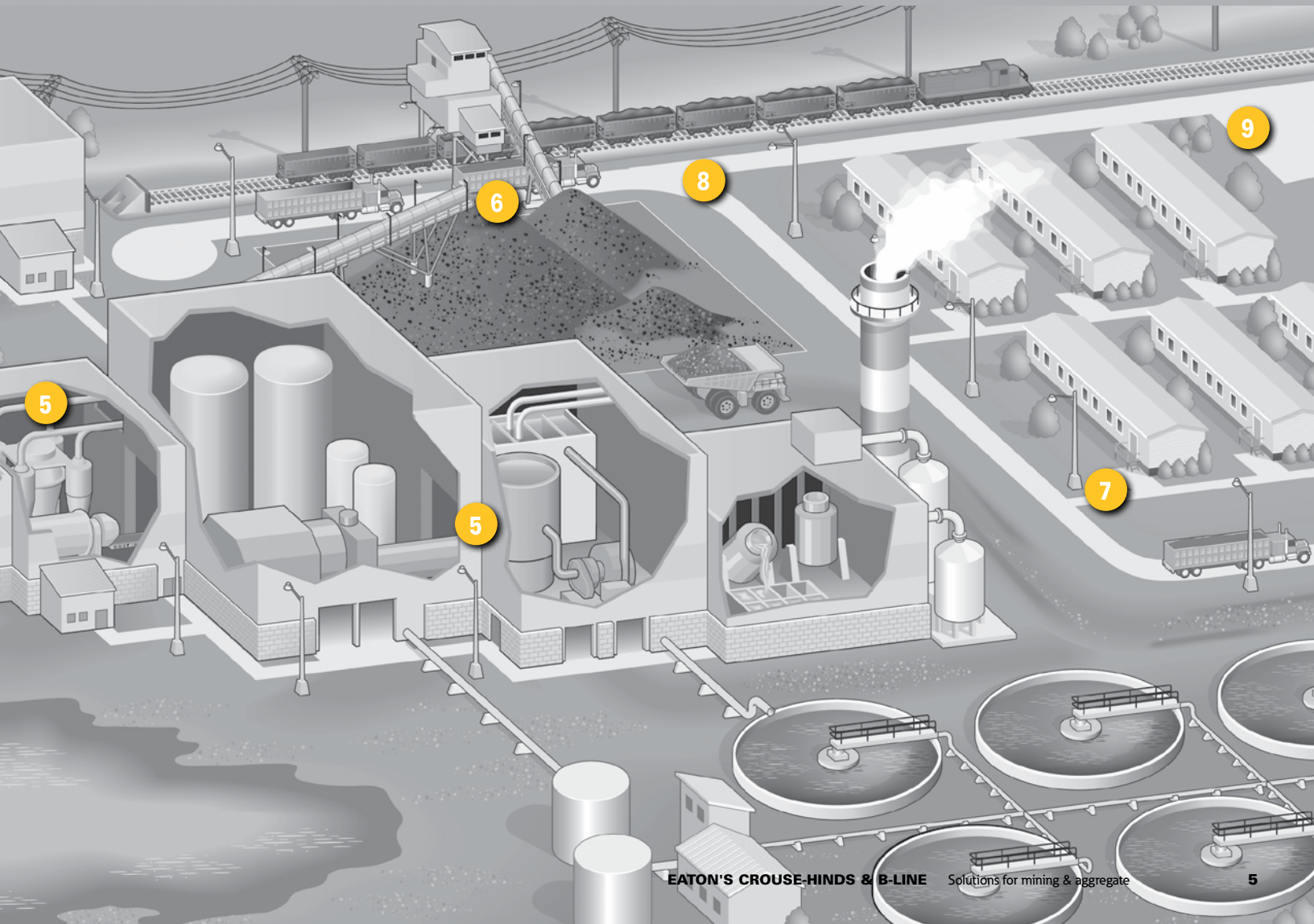


**Products used:** LED lighting, plugs & receptacles, cable glands & fittings

#### 9 Parking lots



**Products used:** LED lighting, plugs & receptacles, cable glands & fittings





heavy industrial

# Champ Pro PVML LED luminaires

## Overview

Champ Pro PVML luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution.

Nine versions of the PVML are available, providing ideal solutions for a wide range of applications.

## Certifications

- UL1598; UL1598A
- cUL
- Type 4X
- IP66
- 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)

## Benefits

- Modular design - This contractor-friendly design is ideal for both retrofit and new construction applications
- Safe, reliable heat transfer - Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment for 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
- Custom optics - Type I, III and V optics designed to maximize light distribution and intensity
- Lever-lock connectors and 3-pole terminal block

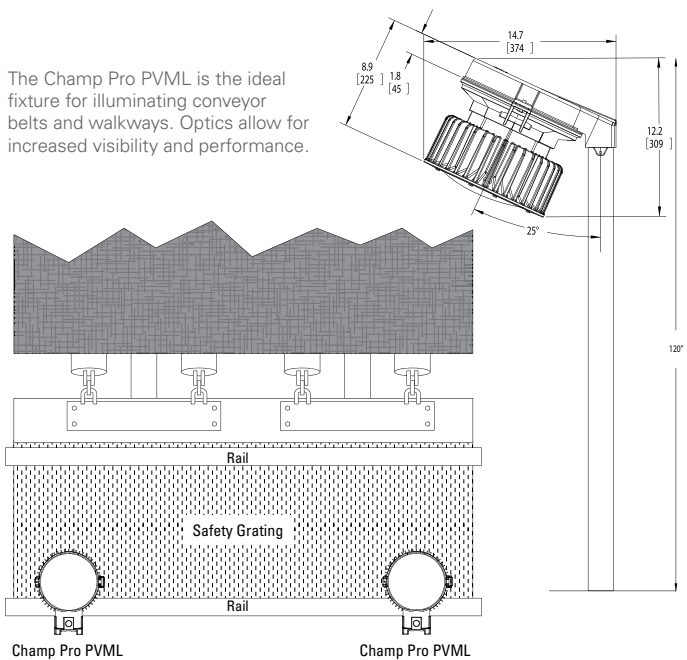
\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

**Up to 75% reduction in energy costs and 200,000 hours of continuous operation.**

| Model          | Typical lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|----------------|-----------------|---------|----------|--------------------------|
| <b>PVML-3</b>  | 3,250           | 26      | 123      | 70W-100W                 |
| <b>PVML-5</b>  | 5,537           | 43      | 127      | 100W-150W                |
| <b>PVML-7</b>  | 7,442           | 59      | 127      | 150W-175W                |
| <b>PVML-9</b>  | 9,234           | 73      | 126      | 250W-320W                |
| <b>PVML-11</b> | 11,114          | 91      | 122      | 320W-400W                |
| <b>PVML-13</b> | 13,100          | 95      | 125      | 400W                     |
| <b>PVML-17</b> | 17,800          | 147     | 121      | 400W-600W                |
| <b>PVML-21</b> | 21,500          | 172     | 125      | 600W-750W                |
| <b>PVML-25</b> | 25,000          | 206     | 121      | 750W-1000W               |

\*Tolerance +/- 10%; Type V optics.

The Champ Pro PVML is the ideal fixture for illuminating conveyor belts and walkways. Optics allow for increased visibility and performance.



PVM3L-PVM11L

## Mounting adapters make retrofits easy

Reliably retrofit Crouse-Hinds series Champ PVM/PVML LED luminaires to mounts from Appleton, Thomas & Betts and GE.

- Smart design saves hours of tear down and installation time
- Compact design allows for easy conversion to Crouse-Hinds series Champ PVML fixtures
- Easily convert wall and ceiling mounts without accessing conduit system



# Champ Pro PFMA LED floodlights



heavy industrial

## Overview

Champ Pro PFMA floodlights are designed to provide full-spectrum, crisp, white light.

Nine versions of the Champ PFMA LED are available for pole and wall mounting, providing ideal solutions for a wide range of applications.

## Certifications

- UL1598; UL1598A; UL875
- 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

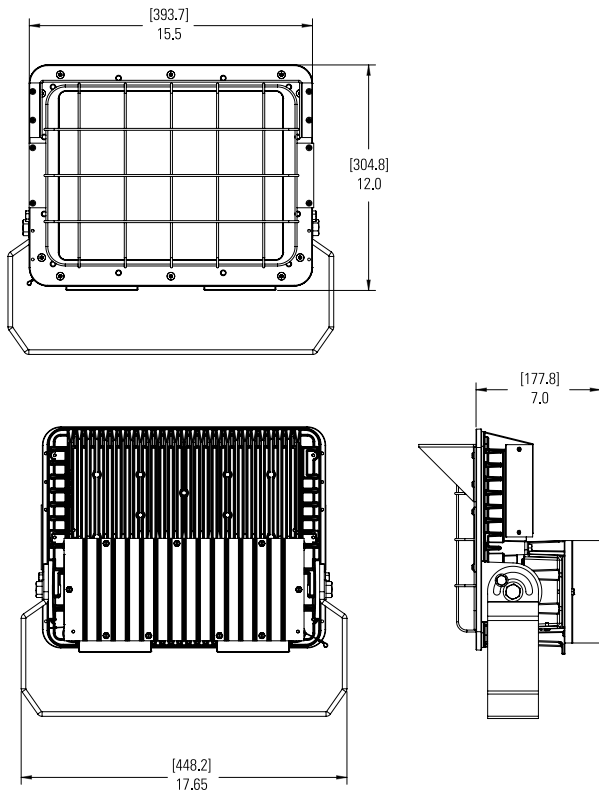
\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

## Benefits

- 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
- Rugged heat sink - Designed to perform in high ambient temperatures up to +65°C and as low as -40°C
- High lumen output - Up to 144 lumens per watt
- Full-frame yoke - Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations
- Multiple lens options - Tempered and clear glass standard, polycarbonate and diffused glass options available
- Smaller and lighter - 25% smaller and 10 lbs. (4.5 kg) lighter than previous model (3L-15L models)

Up to 75% reduction in energy costs and 150,000 hours of continuous operation.

## Dimensions (3L-15L models)



| Model          | Nominal lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|----------------|-----------------|---------|----------|--------------------------|
| <b>PFMA3L</b>  | 3,312           | 26      | 129      | 70W                      |
| <b>PFMA5L</b>  | 5,381           | 40      | 133      | 100W                     |
| <b>PFMA7L</b>  | 7,274           | 55      | 132      | 175W                     |
| <b>PFMA9L</b>  | 9,479           | 67      | 142      | 250W                     |
| <b>PFMA11L</b> | 11,776          | 82      | 144      | 320W                     |
| <b>PFMA13L</b> | 13,362          | 93      | 143      | 400W                     |
| <b>PFMA15L</b> | 15,183          | 108     | 140      | 500W                     |

\*Tolerance +/- 10%; at 120 VAC, 25°C ambient, 7x6 optics.



PFM3L-PFM15L



heavy industrial

# Champ-Pak WPMV

## Overview

Champ-Pak WPMV LED wall packs are engineered to provide maintenance-free illumination, long life and high performance in harsh and heavy industrial areas.

The Champ LED is available from 3,000 to 7,000 lumens and is designed for extreme conditions and heavy duty applications.

## Certifications

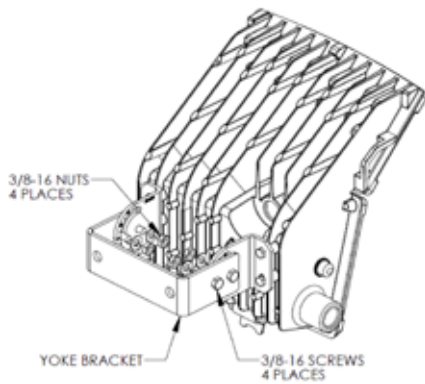
- DesignLights Consortium® Qualified (pending)
- NEC and CEC
  - UL Standards: UL1598, UL1598A, UL8750
  - CSA Standard: C22.2 No. 250
- Marine and Wet Locations, NEMA 4X and IP66

\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

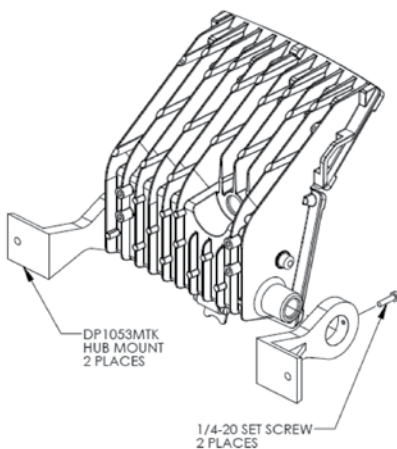
## Benefits

- Increased efficiency - Up to 116 lumens per watt
- Multiple mounting options -
- NEMA 4X, marine, wet locations and hose-down environments
- Contractor-friendly design is ideal for both retrofit and new construction
- Impact-resistant lens sealed from the outside environment provides ingress protection against water and dust
- 60,000+ hours of operation at 55°C

## Versatile mounting options



Yoke mount



Hub mount

Up to 75% reduction in energy costs and 150,000 hours of continuous operation.

| Model  | Nominal lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|--------|-----------------|---------|----------|--------------------------|
| WPMV3L | 3,400           | 30.6    | 111      | 70W                      |
| WPMV5L | 5,200           | 44.8    | 116      | 100W                     |
| WPMV7L | 6,800           | 58.9    | 115      | 150W-175W                |

\*Tolerance +/- 10%; at 120 VAC, 25°C ambient, 7x6 optics.



Heavy industrial version also available!



# Champ PLLA linear LED luminaires



heavy industrial

## Overview

The Champ Pro PLLA Linear LED is specifically designed to replace fluorescent T12, T8 and T5HO lighting in heavy and harsh industrial applications. The rugged and durable design features the industry's most versatile and flexible mounting options. The PLLA is the ideal solution for high vibration, impact and hose down applications.

## Certifications

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

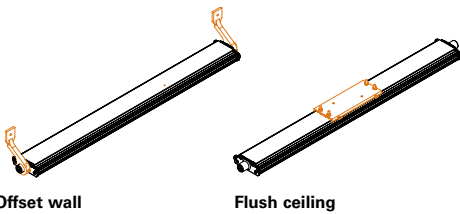
\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

‡ One year warranty

## Benefits

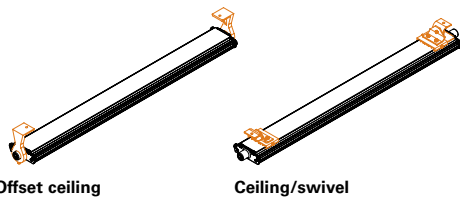
- Industry-leading efficacy: up to 132 LPW
- -40°C to +65°C ambient operating temperature
- Low profile (<3" height)
- Versatile ceiling/swivel, wall, flush, pole and pendant mounting options
- Wide and narrow optics for uniform illumination
- Four points of secondary retention
- 2,000 psi high pressure hose rated
- High vibration resistance (up to 5Gs)
- Emergency battery back-up (90 minutes) and surge protection options (up to 10kV)‡
- 5 year fixture warranty

## Versatile mounting options



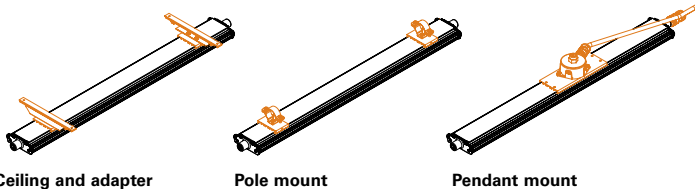
Offset wall

Flush ceiling



Offset ceiling

Ceiling/swivel



Ceiling and adapter

Pole mount

Pendant mount



PLLA4

PLLA2

## Up to 63% reduction in energy costs

| Model | Typical lumens | Wattage | Efficacy | Equivalent HID luminaire |
|-------|----------------|---------|----------|--------------------------|
| PLLA2 | 3,700          | 28.4    | 130      | 2 x 2 ft. T5/T8/T12HO    |
| PLLA4 | 7,900          | 59.8    | 132      | 2 x 4 ft. T5/T8/T12HO    |



# Vaporgard Pro LED

## Overview

Vaporgard™ Pro LED Luminaires are suitable for lower mounting heights, confined spaces, tunnels or utility rooms.

This fixture delivers similar light levels to a 50W HID and is available in cool or warm white light.

For applications with DC power requirements such as solar, battery or UPS. The DC power supply is suitable for 10 VDC through 30 VDC.

## Certifications

- UL1598; UL1598A
- CSA C22.2 No. 250
- Wet Locations, Type 4X, IP66
- DesignLights Consortium® (pending)

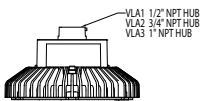
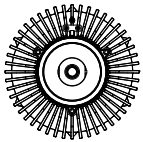
## Benefits

- Instant illumination and re-strike
- Cold temperature operation; no warm-up time
- Lightweight, low profile and cool surface temperatures
- Driver with internal fusing for branch circuit protection
- High efficacy LEDs can save up to 90% in energy costs
- No mercury or hazardous chemicals - eliminates disposal concerns
- Mounts to existing Vaporgard mounting modules
- Shock- and vibration-resistant
- Teflon coated lens (suffix S896) option for increased safety in food processing facilities
- Operating ambient:
  - P2L: -30°C to +55°C
  - P3L: -30°C to +55°C

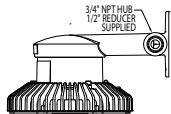
| Model              | Nominal lumens* | Wattage | Efficacy | Equivalent luminaire             |
|--------------------|-----------------|---------|----------|----------------------------------|
| <b>P2LM2C/UNV1</b> | 1,772           | 14      | 126      |                                  |
| <b>P3LM2C/UNV1</b> | 3,335           | 29      | 115      | 50W HID or 100-200W incandescent |
| <b>P2LM2C/DC</b>   | 1,772           | 14      | 126      |                                  |
| <b>P3LM2C/DC</b>   | 3,335           | 29      | 115      |                                  |

\*Tolerance +/- 10%; at 120 VAC

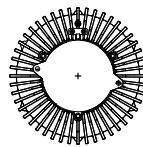
## Typical Mounting Options



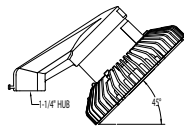
Pendant



Wall



Ceiling



Stanchion





heavy industrial

# Industrial high bay LED luminaires

## Overview

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 re-lamp or that cause production to be stopped during the lamp maintenance process.

## Certifications

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

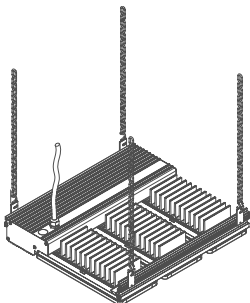
## Benefits

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

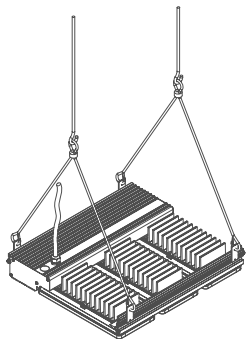
\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

Economic life can range anywhere between 60,000 hours at 40°C to 120,000+ hours at 25°C or 5 to 10 years of maintenance-free operation. L70 >140,000 hours at 60°C and >200,000 hours at 40°C.

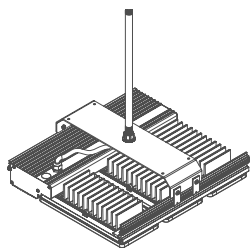
## Versatile mounting options



Jack chain



Aircraft cable



Pendant



## Equivalent luminaires

| Model  | HID            | Fluorescent    | Wattage | Lumenst | Efficacy |
|--------|----------------|----------------|---------|---------|----------|
| IHB16L | 250W-500W      | 4 lamp T5HO    | 145     | 16,900  | 117      |
| IHB24L | 400W-750W      | 4-6 lamp T5HO  | 216     | 25,350  | 117      |
| IHB32L | 500W-1,000W    | 6-8 lamp T5HO  | 289     | 33,800  | 117      |
| IHB48L | 750W-1,500W    | 8-10 lamp T5HO | 436     | 50,700  | 116      |
| IHB64L | 1,000W-1,500W+ | 10 lamp T5HO   | 582     | 67,600  | 116      |

†Preliminary typical values (+/- 10%); data subject to change. 8L option available; consult product line for availability.



hazardous area rated

# Champ VMVL LED luminaires

## Overview

Champ VMVL luminaires are designed to provide full-spectrum, crisp, white light with custom Type I, III and V distribution.

Nine versions of the VMVL are available, providing ideal solutions for a wide range of hazardous area applications.

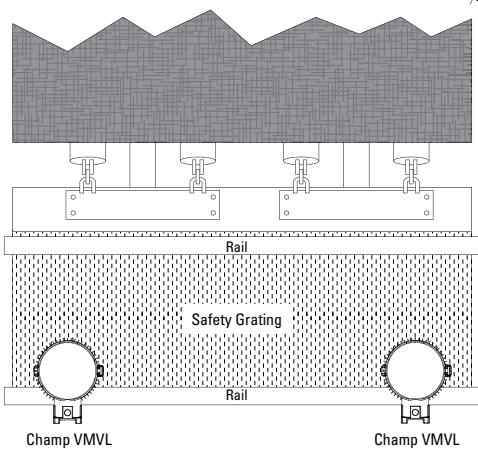
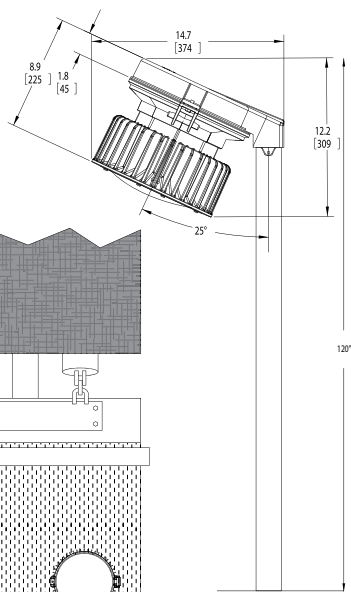
## Certifications

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

## Benefits

- Modular design - This contractor-friendly design is ideal for both retrofit and new construction applications
- Safe, reliable heat transfer - Die cast aluminum housing provides safe and effective heat transfer for 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 die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed and provides ingress protection against water and dust
- Custom optics - Type I, III and V optics designed to maximize light distribution and intensity
- Lever-lock connectors and 3-pole terminal block

The Champ® VMVL is the ideal fixture for illuminating conveyor belts and walkways. Optics allow for increased visibility and performance.



\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

**Up to 75% reduction in energy costs and 200,000 hours of continuous operation.**

| Model          | Typical lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|----------------|-----------------|---------|----------|--------------------------|
| <b>VMVL-3</b>  | 3,250           | 26      | 123      | 70W-100W                 |
| <b>VMVL-5</b>  | 5,537           | 43      | 127      | 100W-150W                |
| <b>VMVL-7</b>  | 7,442           | 59      | 127      | 150W-175W                |
| <b>VMVL-9</b>  | 9,234           | 73      | 126      | 250W-320W                |
| <b>VMVL-11</b> | 11,114          | 91      | 122      | 320W-400W                |
| <b>VMVL-13</b> | 13,100          | 95      | 125      | 400W                     |
| <b>VMVL-17</b> | 17,800          | 147     | 121      | 400W-600W                |
| <b>VMVL-21</b> | 21,500          | 172     | 125      | 600W-750W                |
| <b>VMVL-25</b> | 25,000          | 206     | 121      | 750W-1000W               |

\*Tolerance +/- 10%; Type V optics.

## Mounting adapters make retrofits easy

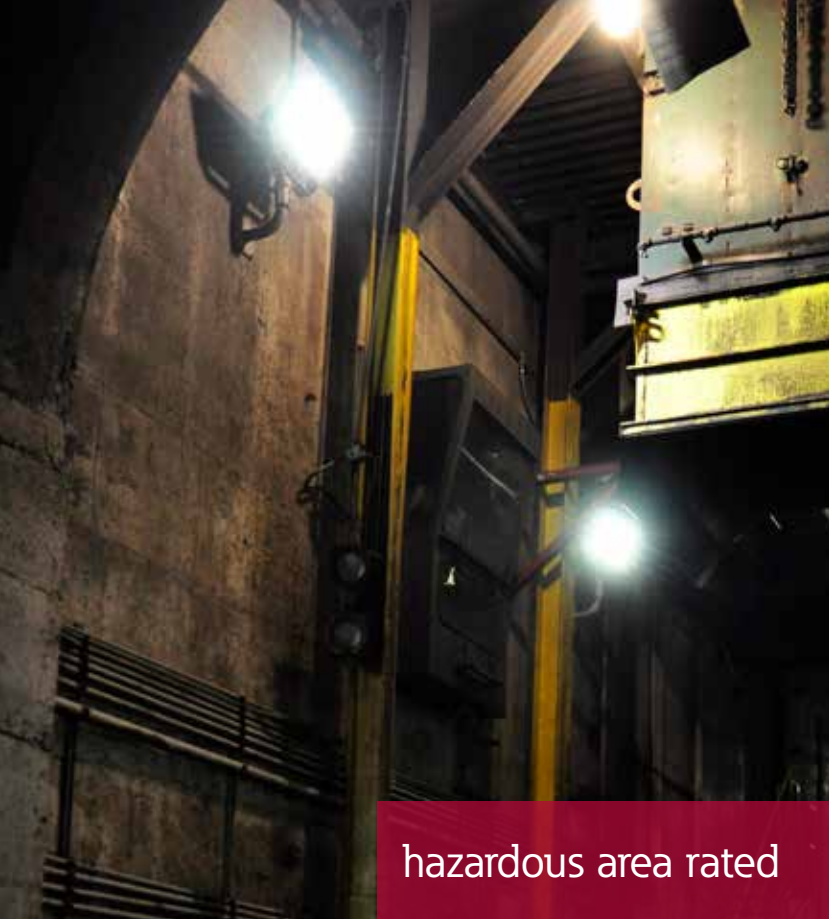
Reliably retrofit Crouse-Hinds series Champ VMV/VMVL LED luminaires to mounts from Appleton, Thomas & Betts and GE.

- Smart design saves hours of tear down and installation time
- Compact design allows for easy conversion to Crouse-Hinds series Champ VMV fixtures
- Easily convert wall and ceiling mounts without accessing conduit system



VMVL-3-VMVL-11

# Champ FMVA LED floodlights



hazardous area rated

## Overview

Champ FMVA floodlights are hazardous location rated and are designed to provide full-spectrum, crisp, white light.

Nine versions of the FMVA are available for pole and wall mounting, providing ideal solutions for a wide range of hazardous area applications.

## Certifications

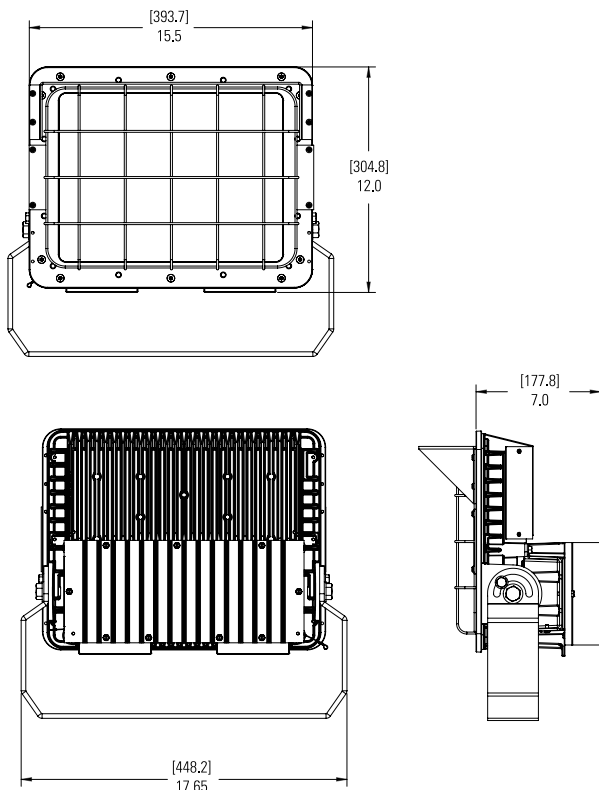
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Groups E, F, G; Simultaneous Presence; Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- IECEx/ATEX Certified; Zone 2/22; CE
- DesignLights Consortium® approved for select models\*

## Benefits

- 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
- Rugged heat sink - Designed to perform in high ambient temperatures up to +65°C and as low as -40°C
- High lumen output - Up to 144 lumens per watt
- Full-frame yoke - Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations
- Multiple lens options - Tempered and clear glass standard, polycarbonate and diffused glass options available
- Smaller and lighter - 25% smaller and 10 lbs. (4.5 kg) lighter than previous model (3L-15L models)

\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

## Dimensions (3L-15L models)



Up to 75% reduction in energy costs and 150,000 hours of continuous operation.

| Model   | Nominal lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|---------|-----------------|---------|----------|--------------------------|
| FMVA3L  | 3,312           | 26      | 129      | 70W                      |
| FMVA5L  | 5,381           | 40      | 133      | 100W                     |
| FMVA7L  | 7,274           | 55      | 132      | 175W                     |
| FMVA9L  | 9,479           | 67      | 142      | 250W                     |
| FMVA11L | 11,776          | 82      | 144      | 320W                     |
| FMVA13L | 13,362          | 93      | 143      | 400W                     |
| FMVA15L | 15,183          | 108     | 140      | 500W                     |

\*Tolerance +/- 10%; at 120 VAC, 25°C ambient, 7x6 optics.



FMVA3L-FMVA15L

# Champ-Pak CPMV



## Overview

Champ-Pak CPMV LED wall packs are engineered to provide maintenance-free illumination, long life and high performance in Class I, Division 2 areas.

The Champ LED is available from 3,000 to 7,000 lumens and is designed for extreme conditions and hazardous applications.

## Certifications

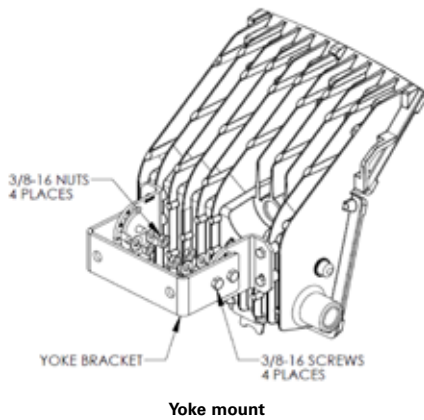
- DesignLights Consortium® Qualified (pending)
- NEC and CEC
- UL Standards: UL1598, UL1598A, UL 844, UL8750
- CSA Standard: C22.2 No. 137
- Class I, Division 2, Groups A, B, C, D,
- Class II, Division 1, Groups E, F, G
- Class III & Simultaneous Presence
- Marine and Wet Locations, NEMA 4X and IP66

## Benefits

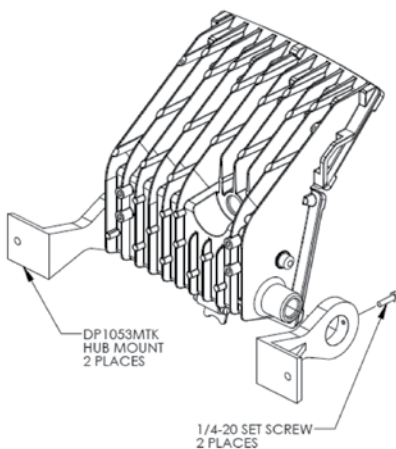
- Increased efficiency - Up to 116 lumens per watt
- Multiple mounting options -
- NEMA 4X, marine, wet locations and hose-down environments
- Contractor-friendly design is ideal for both retrofit and new construction
- Impact-resistant lens sealed from the outside environment provides ingress protection against water and dust
- 60,000+ hours of operation at 55°C

\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

## Versatile mounting options



Yoke mount



Hub mount

**Up to 75% reduction in energy costs and 150,000 hours of continuous operation.**

| Model  | Nominal lumens* | Wattage | Efficacy | Equivalent HID luminaire |
|--------|-----------------|---------|----------|--------------------------|
| CPMV3L | 3,400           | 30.6    | 111      | 70W                      |
| CPMV5L | 5,200           | 44.8    | 116      | 100W                     |
| CPMV7L | 6,800           | 58.9    | 115      | 150W-175W                |

\*Tolerance +/- 10%; at 120 VAC, 25°C ambient, 7x6 optics.





# Champ MLLA linear LED luminaires

## Overview

The Champ MLLA linear LED is specifically designed to replace fluorescent T12, T8 and T5HO lighting in harsh and hazardous applications. The rugged and durable design features the industry's most versatile and flexible mounting options. The Champ MLLA is the ideal solution for high vibration, impact and hose down applications.

## Certifications

- Class I, Division 2, Groups B, C, D
- Class II, Division 2 Groups F, G
- Marine and Wet locations, NEMA 4X, IP66
- UL844; UL1598; UL1598A; UL924
- CSA C22.2 Nos. 250, 137, 141
- DesignLights Consortium® approved for select models\*

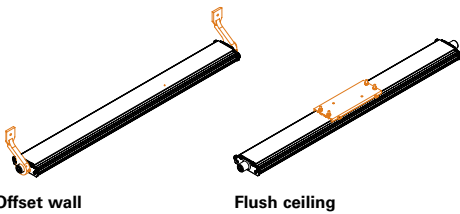
## Benefits

- Industry-leading efficacy: up to 132 LPW
- -40°C to +65°C ambient operating temperature
- Low profile (<3" height)
- Versatile ceiling/swivel, wall, flush, pole and pendant mounting options
- Wide and narrow optics for uniform illumination
- Four points of secondary retention
- 2,000 psi high pressure hose rated
- High vibration resistance (up to 5Gs)
- Emergency battery back-up (90 minutes) and surge protection options (up to 10kV)‡
- 5 year fixture warranty

\* Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for full listing details. Not all models are approved for all application categories.

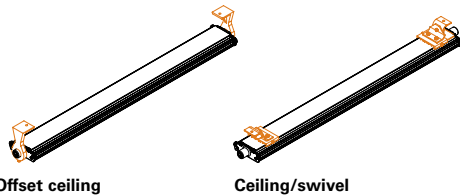
‡ One year warranty

## Versatile mounting options



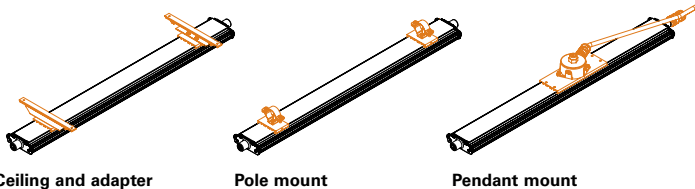
Offset wall

Flush ceiling



Offset ceiling

Ceiling/swivel



Ceiling and adapter

Pole mount

Pendant mount



MLLA4

MLLA2

## Up to 67% reduction in energy costs

| Model | Typical lumens | Wattage | Efficacy | Equivalent HID luminaire |
|-------|----------------|---------|----------|--------------------------|
| MLLA2 | 3,700          | 28.4    | 130      | 2 x 2 ft. T5/T8/T12HO    |
| MLLA4 | 7,900          | 59.8    | 132      | 2 x 4 ft. T5/T8/T12HO    |



# Vaporgard LED

## Overview

Vaporgard™ LED Luminaires are suitable for lower mounting heights, confined spaces, tunnels or utility rooms.

This fixture delivers similar light levels to a 50W HID and is available in cool or warm white light.

For applications with DC power requirements such as solar, battery or UPS. The DC power supply is suitable for 10 VDC through 30 VDC.

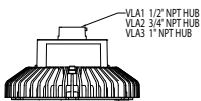
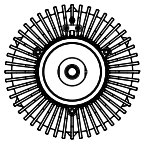
## Certifications

- Class I, Division 2, Groups A, B, C, D
- Class II, Divisions 1 & 2, Groups F, G\*  
\*mounting options limited
- UL844; UL1598; UL1598A
- CSA C22.2 No. 137
- NEMA 4X
- IP66
- IEC and ATEX certified
- DesignLights Consortium®  
(pending)

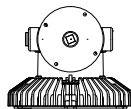
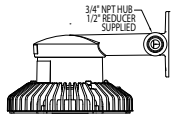
## Benefits

- Instant illumination and re-strike
- Cold temperature operation; no warm-up time
- Lightweight, low profile and cool surface temperatures
- Driver with internal fusing for branch circuit protection
- High efficacy LEDs can save up to 90% in energy costs
- No mercury or hazardous chemicals - eliminates disposal concerns
- Mounts to existing Vaporgard mounting modules
- Shock- and vibration-resistant
- Teflon coated lens (suffix S896) option for increased safety in food processing facilities
- Operating ambient:
  - V2L: -30°C to +55°C
  - V3L: -30°C to +55°C

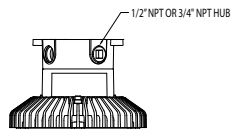
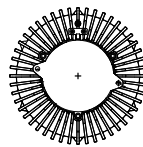
## Typical Mounting Options



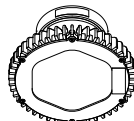
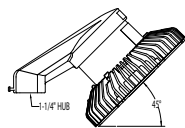
Pendant



Wall



Ceiling



Stanchion

| Model       | Nominal lumens* | Wattage | Efficacy | Equivalent luminaire             |
|-------------|-----------------|---------|----------|----------------------------------|
| V2LM2C/UNV1 | 1,772           | 14      | 126      | 50W HID or 100-200W incandescent |
| V3LM2C/UNV1 | 3,335           | 29      | 115      |                                  |
| V2LM2C/DC   | 1,772           | 14      | 126      |                                  |
| V3LM2C/DC   | 3,335           | 29      | 115      |                                  |

\*Tolerance +/- 10%; at 120 VAC





# N2LPS Light-Pak LED emergency lighting system

## Overview

N2LPS Light-Pak emergency lighting systems are designed specifically for egress and emergency illumination in the most demanding harsh and hazardous environments.

## Certifications

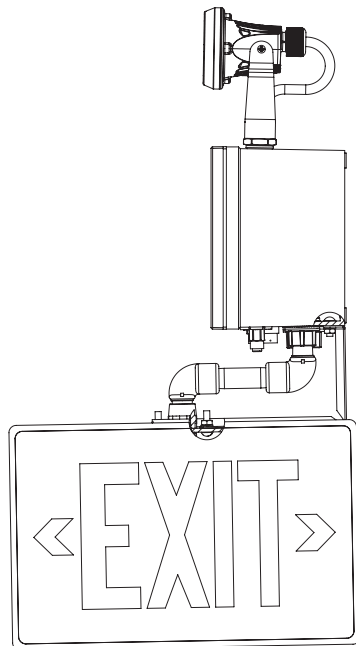
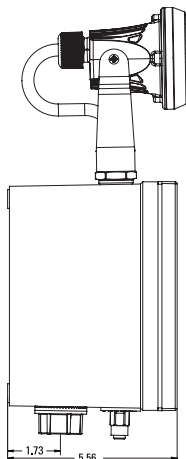
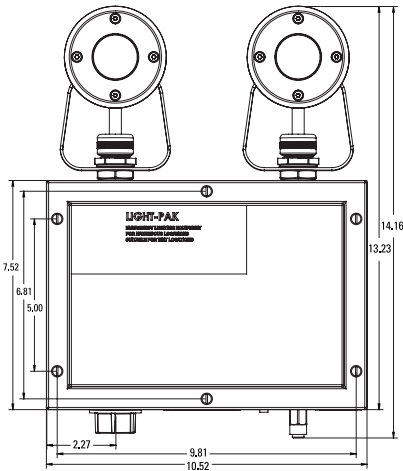
- NEC/CEC:  
Class I, Division 2, Groups B, C, D, Zone 2; Class II, Division 1, Groups F, G
- UL Standards: 1598A; 924; 844
- CSA Standards:  
C22.2 No. 141-M1985;  
C22.2 No. 137-M1981
- Life Safety Code NFPA101® – Section 5-9
- Marine Wet Locations Suitability, NEMA 4, 4X

## Benefits

- 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.
- High temperature rated nickel cadmium battery for reliable operation up to 55°C ambient.
- Self-test, monitoring and diagnostics reduce costly maintenance checks.
- Remote mountable lamp heads can be mounted independently from the enclosure, allowing you to focus light where you need it.
- Solid state battery charger ensures long life and reliable battery operation. Prevents deep discharge by automatically disconnecting the battery from the luminaire.

hazardous area rated

## Dimensions



| Model Number                   | Description  |
|--------------------------------|--|
| <b>N2LPSM212222</b>            | 28W, 12V power supply, (2) 1W LED lamp heads       |
| <b>N2LPSM212220</b>            | 28W, 12V power supply, less luminaire heads        |
| <b>N2RFM21221</b>              | Remote luminaire assembly, (1) LED lamp head       |
| <b>N2RFM21222</b>              | Remote luminaire assembly, (2) LED lamp heads      |
| <b>*N2LPSM212222 UX71SDHAZ</b> | 6W, 12V power supply with exit sign (single sided) |
| <b>*N2LPSM212222 UX72SDHAZ</b> | 6W, 12V power supply with exit sign (two sided)    |





hazardous area rated

# UX exit lighting

## Overview

UX LED exit signs are designed specifically for marking escape routes and exits in harsh and hazardous environments.

The UX is NEMA 4X and IP66 rated, approved for temperatures from -30°C to 50°C and Class I, Division 2 certified. The housing is die cast aluminum with a vandal-proof shield. The LED source is field configurable for red or green output. The self-powered version comes standard with a nickel cadmium battery and self-diagnostics.

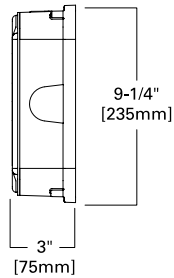
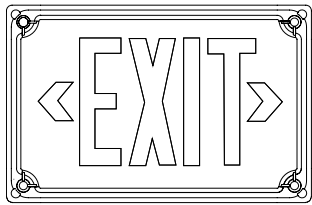
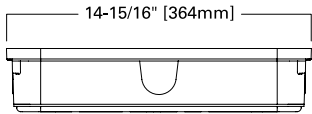
## Certifications

- Class I, Division 2, Groups A, B, C, D
- NEMA 4X, outdoor wet locations suitability
- NEC/OSHA
- UL50; UL844; UL924; UL1598A
- IP66
- Life Safety Code NFPA101–Section 5-9 (Emergency Lighting)
- NSF National Sanitation Foundation/Splash Zone (for food processing)

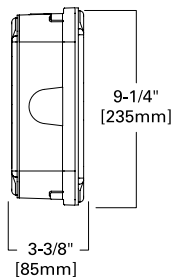
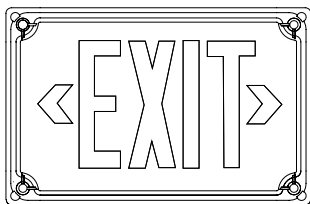
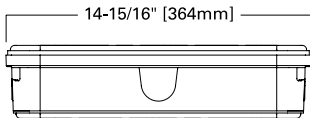
## Design features & benefits

- Wide operating temperature range (UX6: -40°C to 50°C; UX7: -30°C to 50°C)
- Die cast aluminum housing available in silver, black or white color
- Field configurable for red or green letters and chevrons
- Pendant or universal surface mounting
- Self-diagnostics standard with self-powered versions
- Heavy duty injection molded polycarbonate lens protects against impact and corrosion
- Brown-out protection protects battery and reduces labor
- Heavy duty aluminum die cast housing protects against impact and chemical resistance

### Dimensions



### Single face



### Double face

| Model Number  | Description   |
|---------------|---|
| <b>UX61</b>   | Single sided exit sign (AC only)                      |
| <b>UX71SD</b> | Single sided exit sign (self-diagnostic with battery) |



# Industrial fittings & glands

## V-Spring telescoping safety light pole

### Overview

The V-Spring™ telescoping safety light pole increases safety and decreases labor costs associated with lighting installation and routine maintenance. Its innovative design allows for all work to safely take place on the platform or walkway, eliminating the need for portable ladders and fall protection equipment.

Applications include:

- Luminaires installed on industrial walkways, platforms, stairways and conveyors where OSHA/HSE regulations require fall prevention equipment
- Hard to reach or dangerous areas where safety is a big concern
- Hazardous and harsh environments subject to corrosive agents, vibration and extreme temperatures



## TMC3 Terminator cable glands for industrial, harsh and hazardous areas

### Overview

TMC3 terminator gland is for use with metal-clad cable, TECK corrugated cable, or non-armored tray cables.



Fast & easy installation:

- 2-piece construction with lock nut and gasket for faster installation
- Increased size of wrenching surfaces on body and nut

Designed for versatility:

- Dual certified for armored (MC/TECK) and non-armored (tray) cables
- Available in copper-free aluminum, nickel-plated brass or 316 stainless steel

## Condulet conduit bodies, boxes, covers and gaskets



### Overview

Condulet™ boxes are installed in conduit systems to: accommodate wiring devices, act as pull boxes, provide openings to make 90° bends, provide for splices, taps, mounting outlets and provide access to conductors for maintenance and future system changes.

## Cable glands & accessories



### Overview

Our global offering provides a termination solution for virtually every type on the market. These cable glands are designed for strict adherence to global specifications. Available in a wide range of materials, including nickel-plated brass, stainless steel, aluminum and impact-resistant nylon.

## Stainless steel fittings



### Overview

Stainless steel fittings deliver unbeatable corrosion protection where you need it, saving you time and money. Superior resistance to corrosion and heat, combined with unmatched strength, make stainless steel fittings a long-term solution for even the most extreme environments.

## Myers hubs



### Overview

Myers™ hubs are used in the termination of electrical circuits through wall of the enclosure. Designed for use indoors or outdoors with rigid conduit and IMC. Suitable for use in environmentally demanding applications, including those with the presence of chemicals, such as acetic, citric and salt water. Also available for use in hazardous (classified) locations.

## Breathers & drains



### Overview

Breathers and drains are installed in enclosures or conduit systems to provide ventilation, minimize condensation and drain accumulated condensate.

## Liquidtight fittings – stainless steel



### Overview

Liquidtight fittings are used to terminate and seal liquidtight flexible metal conduit to an oiltight, raintight or liquidtight box or enclosure, where superior corrosion resistance and/or strength is required.

# Power distribution and control

## EMN 25 & 26 pushbutton motor starters



### Overview

Explosionproof, compact, across-the-line manual NEMA starter for single and polyphase VAC or VDC motors. Used for fans and blowers, pumps, compressors and conveyors.

## STE main breakers



### Overview

STE main breakers for hazardous areas provide overcurrent and short circuit protection for low voltage power, lighting and heat tracing applications.

## SynergEX EZFlex panelboards



### Overview

The SynergEX EZFlex™ panelboard utilizes individually encapsulated circuit breakers to reduce downtime, increase safety and lower maintenance costs in hazardous locations. SynergEX EZFlex provides overcurrent and short circuit protection for low voltage power, lighting and heat tracing applications.

## XDT hazardous area transformers



### Overview

XDT hazardous location dry-type transformers are designed to operate where volatile flammable liquids or gases are handled, processed or used, and where ignitable concentrations of gases or vapors are normally prevented by positive mechanical ventilation.

## Control stations



### Overview

N2S and GHG43 control stations and selector switches are used for motor control, visual indication, on-off control of circuits and circuit selection.

## Disconnect switches



### Overview

Hazardous area and ordinary location disconnect switches are used in manual "ON" and "OFF" control of single-phase or three-phase AC motors where overload protection is not required or is provided separately.

## SCSR portable combination motor starter receptacles



### Overview

The SCSR combination starter with receptacle allows for portable motor control and fault diagnostics. It provides equipment protection from overload and short circuit conditions while offering local and remote motor control, preventing energization under all preceding conditions, and connectivity via a wireless gateway or the hardwire. The SCSR smart combination motor starter receptacle offers a wide range of protection devices and is suitable for a wide range of applications.

# Plugs & receptacles

## Arktite interlocked receptacles with enclosed disconnect switches



### Overview

Arktite™ interlocked receptacles with enclosed disconnect switches supply power to portable or fixed electrical equipment such as welders, compressors, conveyors, portable tools, lighting systems and similar equipment.

Arktite products also prevent engagement and disengagement of the plug under load, providing safe portable connections and extended product life.

## Posi-Max and Posi-Lok power distribution systems, panels and connectors



### Overview

Posi-Max power distribution panels provide a quick and safe method of connection to portable generators. The unique Posi-Max design allows for quick and safe restoration of essential power services.

Posi-Max panels are available in 200A to 1200A and the enclosure can be customized to meet specific environmental and configuration needs.

Posi-Lok™ distribution panels use lightweight, single conductor cables to provide the means for hurried personnel to quickly and safely connect and disconnect power systems without having to use any tools.

Posi-Lok plugs feature recessed electrical contacts that are protected by shatter-resistant insulators and impact-resistant molded sleeves.

## Macey 25kV high voltage coupling system



### Overview

Macey® 25kV high voltage coupling systems are used to supply power to draglines, longwall machines, cranes and other types of equipment.

- No special installation tools needed
- Smaller footprint and reduced weight versus the competition
- Interchangeable with other manufacturers' couplers
- Accommodates a wide range of cable types with entrance fittings, including fiber optic

## IEC 60309 plugs, connectors, receptacles & inlets



### Overview

IEC 60309 pin and sleeve devices are the industry's first to offer IP69K rated protection. Each device has been carefully engineered to offer reliability, efficiency and added safety protection in demanding wet locations, particularly where harsh wash downs are a must.

## Roughneck multi-pin & single pole connectors



### Overview

#### Roughneck™ Multi-pin connectors

Heavy duty control and instrumentation multi-pin connectors for hazardous and harsh industrial use.

#### Single pole connectors

Secure, single pole power, rated to 1135A for use in hazardous and normal locations.

## Arktite 30A-100A non-metallic plugs, receptacles & connectors



### Overview

Arktite circuit breaking plugs, receptacles, cord connectors and motor plugs are used to supply power to portable electrical devices such as welders, motors, pumps, conveyors and other similar equipment where electrical loads must be quickly disconnected from power sources.

# Enclosures

## NEMA 4X enclosures



### Overview

Broad offering of JIC, wall mount, ground mount and free-standing enclosures with superior ingress protection. Protect against corrosion, circulating and windblown dust, falling dirt, dripping non-corrosive liquids, rain, splashing water and hose-directed water.

## Ex-CELL stainless steel or sheet steel enclosures



### Overview

A globally certified enclosure and termination solution for Type 3S and 4X applications. Over 100 standard sizes in stainless steel and painted steel, featuring unique design features, precision manufacturing and the highest quality materials.

The premier choice for instrumentation and electrical applications across the globe.

## Non-metallic enclosures for non-hazardous applications (NEMA 1, 3, 3R, 4X, 6P, 12)



### Overview

Made of fiberglass-reinforced polyester, non-metallic enclosures are exceptionally durable, corrosion-resistant and can withstand abuse and exposure to chemicals, water and extreme conditions.

Extensive offering of fiberglass enclosures, including: small line, pushbutton, junction box, raised cover, Advantage, wall mount, disconnect and Xtra deep.

## NEMA 7 enclosures



### Overview

EJB explosionproof enclosures are used as a junction or pull box, enclosure for splices and branch circuit taps, terminal blocks, relays and other electrical devices.

EJB enclosures are certified for use in areas which are hazardous due to the presence of hydrogen or gases and vapors of equivalent hazard, such as those found in process industries.

# Cable tray & ladder systems

## Overview

As an industry leader in cable tray, Eaton offers one of the widest ranges of B-Line series cable management solutions available in the market today.

With unmatched quality and service, we offer a variety of styles, materials and finishes available to support virtually any commercial and industrial cable management application requirement.

## B-Line series High Performance Ladder (HPL) series

Eaton's patent-pending high performance cable ladder reduces weight while increasing load capacity. Designed to literally save tons in overall weight on offshore and modular construction applications, the HPL cable ladder offers a unique combination of low weight and high strength. The high strength to weight ratio allows for increased load capacities and helps keep weight budgets in balance.

[Learn more at Eaton.com/HPL](http://Eaton.com/HPL)



# Support systems

## Safety grating solutions



### Overview

Contractor and industry surveys reveal accidents caused by falls are high on the list of disabling and lost-time injuries and even death. In fact, statistics from many states rate this type of accident are second as the cause for industry's loss of man-hours and lower productivity. Eaton's B-Line series safety grating product offering provides superior structural walkways with increased safety and slip-resistance for rugged outdoor and indoor environments.

[Learn more at Eaton.com/gratings](http://Eaton.com/gratings)

## Strut systems



### Overview

B-Line series strut systems begin with quality and design – they are made from structural-quality steel that help ensure structural integrity and strength. Plus, they come in a wide range of protective finishes with an extensive array of accessories that help save installation time.

- Channel profile, finish and traceability information is stamped inside every channel for identification and easy reference; Material documentation can be provided upon request
- Wide range of protective finishes
- Channel available in solid, slotted and long slotted hole and welded configuration options
- Cut-to-length strut options available upon request

[Learn more at Eaton.com/strutsystems](http://Eaton.com/strutsystems)

## Pipe hangers



### Overview

Eaton offers a full line of B-Line series pipe hangers, clevis hangers, beam clamps and other mechanical supports in a variety of materials and finishes.

### Applications

Pipe hangers are designed to support insulated or non-insulated pipe allowing for vertical adjustment and limited movement in the piping system. Beam clamps are designed to provide attachment of hanger rods to structural members without drilling or welding.

## B3100 Side-Rite clevis hanger

### Overview

- Slide-Rite™ hanger features 15° swing in either direction allows pipe to easily feed through
- Engineered design aligns bolt holes for quicker overhead installation

# Conveyor solutions

## AFU and AFUX conveyor belt control switches



### Overview

AFU and AFUX conveyor control switches are used:

- As emergency or normal "STOP" switch for conveyor lines, cranes, unloaders, bulk handling systems and similar equipment
- In steel mills, mining and ore and coal handling operations, automotive and other assembly lines, warehouses, loading docks and various process industry facilities
- In the control circuit of magnetic motor starters to shut down motor-driven conveyors or other machinery when switch is actuated

## AFA and AFAX conveyor belt alignment switches



### Overview

AFA, AFAX conveyor belt alignment switches are used:

- As emergency or normal "STOP" switch for conveyor belts whenever they become misaligned or run off their tracks due to excessive speed, uneven load, leveling, breakage and/or other problems.
- In steel mills, mining and ore and coal handling operations, automotive and other assembly lines, warehouses, loading docks, grain loading and handling facilities, and various other bulk handling operations.
- In the control circuit of magnetic motor starters to shut down motor-driven conveyors in case of abnormal belt misalignment or run-off.

## AFU mine signal switch

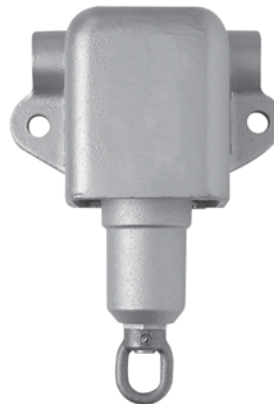


### Overview

AFU mine signal switches are used:

- For signalling circuits or remote control of magnetic motor starters
- In non-hazardous areas of mines or process industry facilities
- Mounted on walls or in shaft ways and actuated by pulling line or cable attached to the loop at the bottom

## AFC mine signal switch



### Overview

AFC mine signal switches are used:

- For remote control of signaling circuits
- In non-hazardous areas of mines or process industry facilities
- Mounted on walls or in shaft ways and actuated by pulling line or cable attached to the loop at the bottom

## AFS mine signal switch



### Overview

AFS mine signal switches are used:

- For remote control of signaling circuits
- In non-hazardous areas of mines or process industry facilities
- Mounted on walls or in shaft ways and actuated by pulling line or cable attached to the loop at the bottom

## AFM mine signal switch



### Overview

AFM mine signal switches are used:

- For audible signaling and remote signaling
- In non-hazardous areas of mines or process industry facilities
- Mounted on walls or in shaft ways and actuated by pulling line or cable attached to the loop at the bottom



# Conveyor solutions

## AFK mine signal switches



### Overview

AFK mine signal switches are used:

- For visible, audible and remote control of signaling circuits
- In non-hazardous areas of mines or process industry facilities
- Mounted on walls or in shaft ways and actuated by pulling line or cable attached to the loop at the bottom

## Limberollers

Limberollers are the best choice to decrease conveyor system down time. Constructed of a rubber encapsulated steel rope design with only two bearings per idler, they are used in place of cantenary steel cans. Available in troughing and return configurations, Limberollers provide superior belt alignment, are lightweight enough to be handled by one person, and are self cleaning and non-static.



## Limberoller troughing idlers

The Limberoller Troughing Idler consist of a steel wire rope that is completely encapsulated in rubber. The elastomer is molded to the rope, under heat and pressure, so that a virtually impervious sheath of rubber completely covers the rope. This basic design varies depending on belt width, by configuration of the molded rubber jacket.

- LR-100 and LR-150 series troughing idlers with double row ball bearings and slotted to fit into a rigid mounting
- LR-300 and LR-350 series troughing idlers with tapered roller bearing in a trunnion type housing that fits into an oarlock type support
- Troughing Idler consist of a steel wire rope that is completely encapsulated in rubber
- Troughing Brackets feature steel standard, special and training troughing styles



## Limberoller return idlers

The Limberoller Return Idler consists of a solid steel shaft completely encapsulated in rubber for a virtually impervious sheath. Return idlers feature bearing housings that are slotted so that they will fit in specially designed hanger and support brackets.

- Return idlers LR-106 & LR-307 series feature solid shaft return idlers with double row ball bearings
- LR-106 & LR-307 are for high impact of heavy duty
- LR-107 series solid shaft return idlers with double row ball bearings
- Solid steel shaft completely encapsulated in rubber for a virtually impervious sheath
- Steel hanger and training return brackets for use with LR-106, LR-107, and LR-307 series
- Synthetic rubber top mount brackets are for use with LR-106 and LR-107 series



# CoSPEC

## Online specification tools

Assembly PN: VMV7L2A/UNV1

### Configuration Options

Mounting Style  
Pendant Mount

Lamp  
7L - (7404 Lumens)

Hub Size  
3/4"

Color Temperature  
5600K (cool white)

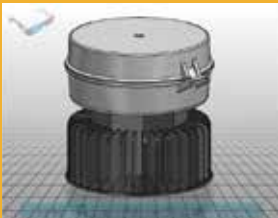
Optics  
Type V

Guard  
No Guard

Voltage  
120-277 VAC, 50/60 Hz

Options  
No Options

**SELECT**—Pick products you need to download to the unit level.



**VIEW**—View your chosen product in 2D or 3D.



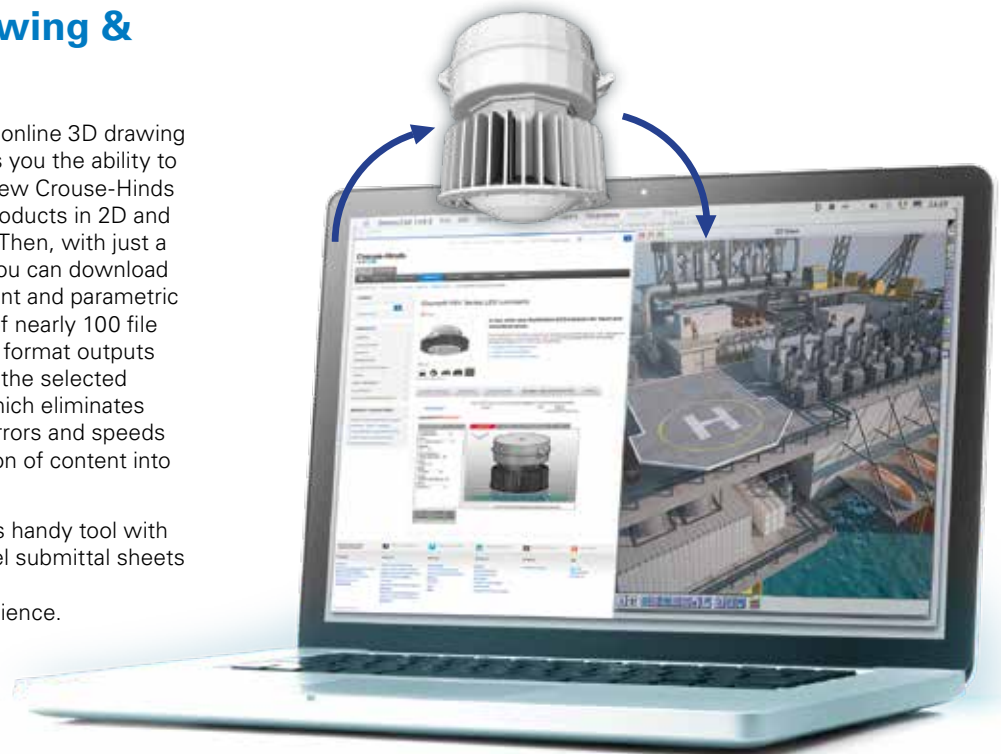
**DOWNLOAD**—Output drawing and parametric data for use on your project.

CoSPEC is a suite of specification support tools that help simplify, streamline and speed up the industrial design and specification process. From lighting designs and drawing support tools to ROI calculators, submittal sheets and spec forms, CoSPEC has you covered in virtually every aspect of the design process.

### 3D drawing & design

The CoSpec online 3D drawing catalog gives you the ability to select and view Crouse-Hinds and B-line products in 2D and 3D formats. Then, with just a few clicks, you can download design content and parametric data in one of nearly 100 file formats. File format outputs are native to the selected software, which eliminates translation errors and speeds the integration of content into your project.

Combine this handy tool with our SKU-level submittal sheets for extra convenience.



### SKU-level submittal sheets

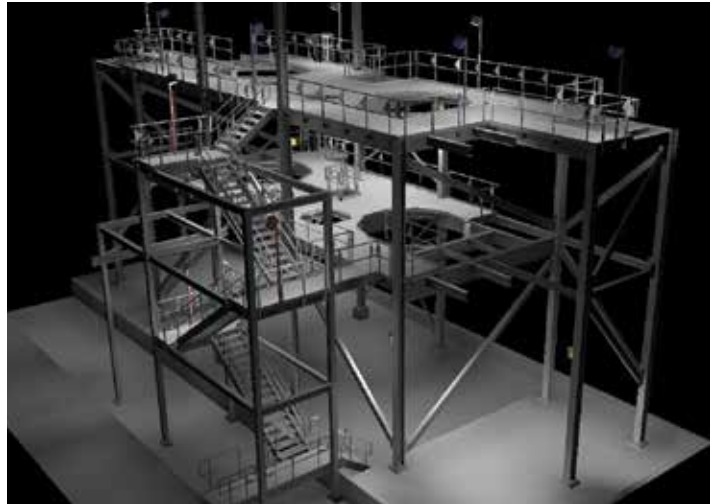
These dynamic PDFs feature both SKU-level specification data and key family specs. The sheets also include a custom text area for unique data such as project name or fixture type, as well as an embedded 3D drawing.

# Convenient resources for engineers, designers and drafters

## Lighting layouts

From simple layouts to complex drawings, our lighting design engineers deliver precise, efficient, application- and environment-appropriate lighting designs. Our experts can save you time and money by creating a virtual model of a proposed design, revealing luminaire characteristics and effects within the installation.

- 3D fixture placement with access to alternate fixtures and mounting heights
- Point-by-point footcandle diagram calculations
- AutoCAD®-generated floor plan overlays
- Complete bill of material



| Energy Savings & Maintenance Savings |                | Total Cost of Ownership Comparison |  |
|--------------------------------------|----------------|------------------------------------|--|
| <b>Total Cost of Ownership</b>       |                |                                    |  |
|                                      | 400W MH        | LED System                         |  |
| Initial investment                   | \$80,000.00    | \$150,000.00                       |  |
| Utility rebate                       | \$0.00         | (\$0.00)                           |  |
| Tax rebate                           | \$0.00         | (\$0.00)                           |  |
| Net investment                       | \$80,000.00    | \$150,000.00                       |  |
| Total energy costs                   | \$1,952,640.00 | \$609,120.00                       |  |
| Incremental Air Cooling Energy Costs | \$0.00         | \$0.00                             |  |
| Total labor costs                    | \$549,818.18   | \$0.00                             |  |
| Total cost of ownership              | \$2,582,458.18 | \$759,120.00                       |  |
| <b>Total Savings</b>                 |                |                                    |  |
|                                      |                | LED System                         |  |
| Energy savings                       |                | \$1,343,520.00                     |  |
| Labor & material savings             |                | \$549,818.18                       |  |
| Total savings                        |                | \$1,893,338.18                     |  |
| Initial investment                   |                | (\$150,000.00)                     |  |
| Estimated Utility Rebate             |                | \$0.00                             |  |
| Estimated Tax Rebate                 |                | \$0.00                             |  |
| Total return                         |                | \$1,743,338.18                     |  |

Payback Period on the Incremental LED Cost (years): 0.5  
 Payback period on the entire LED installation (years): 1.0

## ROI calculators

Use our interactive online cost calculators to determine how much you or your clients will save with LED luminaires from Eaton's Crouse-Hinds. These handy, intuitive calculators allow you to enter design parameters unique to a project and view the specific savings and payback period realized.

PRODUCT SPECIFICATION GUIDE – LED LUMINAIRES – CHAMP VMV LED SERIES  
 SECTION 26 54 00 – CLASSIFIED LOCATION LIGHTING

**Product Specification Guide – Champ® LED VMV Luminaires HI-Lumen**  
 SECTION 26 54 00 – Classified Location Lighting

**PART 1 GENERAL**

**1.01 SCOPE**  
 A. Furnishing, installation, and assembly of lighting fixtures for areas classified as hazardous.

**1.02 REFERENCES**  
 A. National Fire Protection Association (NFPA):  
 1. NFPA 70 National Electrical Code (NEC)

## Specification guide forms

Written to CSI guidelines, our specification guide forms are ideal for designers whose customers have out-of-date or incomplete spec libraries. They're a quick and easy way to optimize the safety, reliability and efficiency of your design requirements.



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