LED lighting solutions

CROUSE-HINDS SERIES

Safe. Reliable. Efficient.

LED solutions by Eaton's Crouse-Hinds

EATON

Powering Business Worldwide

No matter the area or application
Eaton's Crouse-Hinds has an LED to meet your needs

Eaton's 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 on the market.

Why LED?

Useful life

- Economic life can range anywhere between 60,000 to 170,000 hours or 7 to 20 years of maintenance-free and safe operation

Energy efficiency

- LED consumes on average 50% less energy than HID and 85% less energy than incandescent

Start/restart time

- Instant illumination versus ~10 minutes (HID)

Lighting quality

- Higher color rendering compared to fluorescent and HID

Environmental benefits

- LED reduces carbon footprint
- Mercury-free fixtures means no disposal costs

Why Crouse-Hinds?

Industry-best reliability

- Built to withstand extreme temperatures, high vibration, water and dust

Thermal management

- Engineered heat sinking ensures longer life and better lumen output

Quality of light

- Custom optics designed to maximize light distribution and intensity

Retrofit compatibility

- LEDs compatible with Crouse-Hinds HID installed base for significant installation savings

Certified and compliant

- Global certifications on most fixtures and a broad range of DLC qualified luminaires

Selection guide – Harsh/heavy & light industrial

Area Classification	Application	Product		Equivalent light output	Lumen level	Input watts	Input voltage	DLC Qualified
Harsh/heavy industrial	High/mid bay	**Champ® Pro PVM**		9 models - 70W to 1000W HID replacement	3,000 - 26,000 lumens	29W to 232W	120-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Low bay	**Vaporgard™ Pro P2L**		1 model - 100W to 200W incandescent; 50W HID	1,600 lumens	22W	90-277 VAC, 12-24 VDC	*(select models)**
	Flood	**Champ® Pro PFM**		9 models - 70W to 1500W HID replacement	3,000 - 50,000 lumens	28W to 531W	100-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Linear	**Champ® PLL**		2 models - 2 lamp T5HO replacement	3,600 - 7,100 lumens	29W to 55W	100-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Wall pack	**Endure™**		2 models - 50W to 70W HPS & 70W HID replacement	2,300 - 4,700 lumens	27W to 51W	120-277 VAC	N/A
Light Industrial	High bay	**Industrial high bay**		5 models - 250W-1000W HID & 4-10 Lamp T5HO replacement	16,000 - 67,000 lumens	145W to 582W	100-277 VAC/ 127-250 VDC, 347-480 VAC	*(select models)*

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

Find out which solution is right for you.

Selection guide – Hazardous area

Area classification	Application	Product	Equivalent light output	Lumen level	Input watts	Input voltage	DLC Qualified
Class I, Division 2 and/or Zone 2	High/mid bay c UL us LISTED IEC	**Champ® VMV**	9 models - 70W to 1000W HID replacement	3,000 - 26,000 lumens	29W to 232W	120-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Flood c UL us LISTED IEC	**Champ® FMV**	9 models - 70W to 400W HID replacement	3,000 - 50,000 lumens	28W to 531W	100-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Low bay c UL us LISTED IEC	**Vaporgard™**	1 models - 100W to 200W incandescent & 50W HID	1,600 lumens	22W	90-277 VAC, 12-24 VDC	*(select models)**
	Linear c UL us LISTED	**Champ® MLL**	2 models - 2 lamp T5HO replacement	3,600 - 7,100 lumens	29W and 55W	100-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Emergency c UL us LISTED	**Light-Pak™ N2LPS**	1.5 hours of battery with 28W power consumption	N/A	28W	120, 220, 230, 240, 277 VAC	N/A
	Exit c UL us LISTED IEC	**Ex-Lite/ CCH UX**	3 models - Ex-Lite Z & Ex-Lite ZE (with battery) and CCH UX	N/A	N/A	120-277 VAC, 110-250 VDC	N/A
Class I, Division 1 and/or Zone 1 Zone 21	High/mid bay c UL us LISTED IEC	**Hazard•Gard® EVLL**	5 models - 70W to 400W HID/HPS replacement	5,700 - 13,500 lumens	56W to 149W	120-277 VAC/ 108-250 VDC, 347-480 VAC	*(select models)**
	Low bay c UL us LISTED	**EV LED**	2 models - 100W to 200W incandescent & 70W-100W HID replacement	1,500 - 2,000 lumens	26W to 36W	100-277 VAC, 10-30 VDC	N/A
	High/mid bay IEC	**LPL**	4 models - 70W to 250W HID replacement	5,100 - 10,200 lumens	53W to 105W	100-277 VAC	N/A
	Linear c UL us LISTED	**Hazard•Gard® XPL**	2 models - 2 lamp T5HO replacement	3,800 - 7,600 lumens	33W and 63W	100-277 VAC, 347-480 VAC, 108-250 VDC	*(select models)**
	Linear CSA us IEC	**eLLK**	2 models - 2x18W and 2x36W fluorescent replacement	2,100 - 4,100 lumens	2X13W and 2X26W	110-254 VAC, 110-250 VDC	N/A
	Bulkhead IEC	**AB05**	1 model - 150W incandescent replacement	2,000 lumens	32W	120-240 VAC	N/A
	Low Bay IEC	**EV35**	1 model - 100W to 150W incandescent & 50W mercury vapor replacement	2,120 lumens	32W	220-240 VAC	N/A

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

Champ® Pro PFM LED floodlights

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PFM3L	70W	Up to 78% reduction in energy costs and 60,000 hours of continuous operation!
PFM5L	100W-150W	
PFM7L	150W-175W	
PFM9L	175W-250W	
PFM11L	250W-400W	
PFM13L	400W	
PFM15L	400W-500W	
PFM20L	600W-750W	
PFM25L	750W-1000W	
PFM50L	1,500W	

CERTIFICATIONS & COMPLIANCES

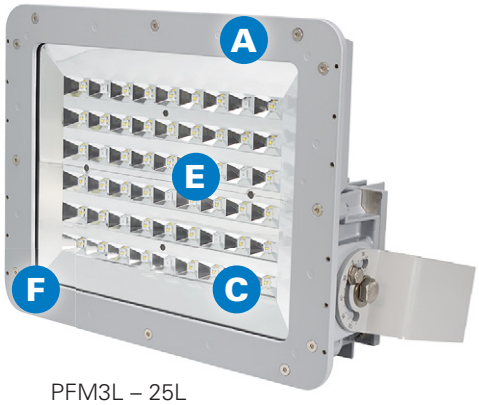
- UL1598; UL1598A; UL8750
- cUL
- Type 4X
- IP66
- DesignLights Consortium® approved for select models*
- UL approved up to 65°C ambient (3L-15L)
- cUL Listed to CSA Standard CSA C22.2 No. 250
- IEC Standards: IEC 60598; CE

ELECTRICAL RATINGS

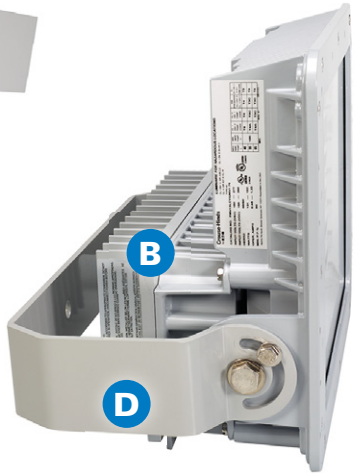
- Voltages: 100-277 VAC, 347-480 VAC, 108-250 VDC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 531W

OPTIONS AND ACCESSORIES

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



PFM3L – 25L



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

DESIGN FEATURES

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

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

C **High lumen output -** Up to 117 lumens per watt.

D **Full-frame yoke -** Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations.

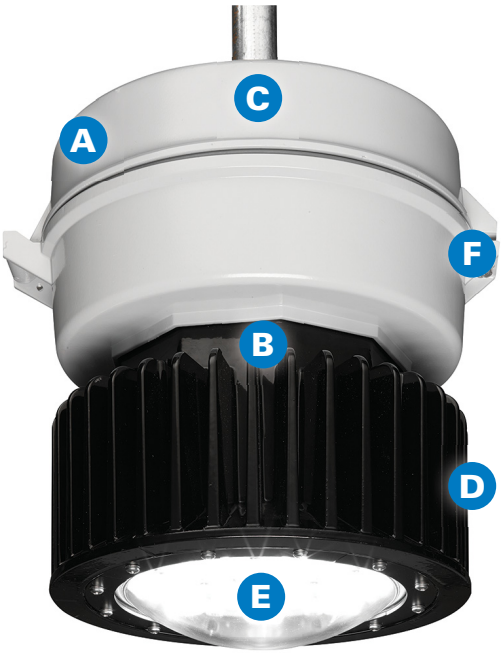
E **Multiple lens options -** Tempered and clear glass standard, polycarbonate and diffused glass options available.

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

NEC CEC

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

Champ® Pro PVM LED luminaire



PVM3L – 11L

PVM13L and 17L

PVM21L and 25L

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

DESIGN FEATURES

- **A** **Modular design -** This contractor-friendly design is ideal for both retrofit and new construction applications.
- **B** **Safe, reliable heat transfer -** Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.
- **C** **High efficiency drivers -** Designed to provide reliable operation in even the harshest environments.
- **D** **Type 4X rated -** The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- **E** **Custom optics -** Type I, III and V optics designed to maximize light distribution and intensity.
- **F** **Lever-lock connectors and 3-pole terminal block.**

NEC CEC

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

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PVM3L	70W-100W	Up to 77% reduction in energy costs and 60,000 hours of continuous operation!
PVM5L	100W-150W	
PVM7L	150W-175W	
PVM9L	250W-320W	
PVM11L	320W-400W	
PVM13L	400W	
PVM17L	400W-600W	
PVM21L	600W-750W	
PVM25L	750W-1,000W	

CERTIFICATIONS & COMPLIANCES

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

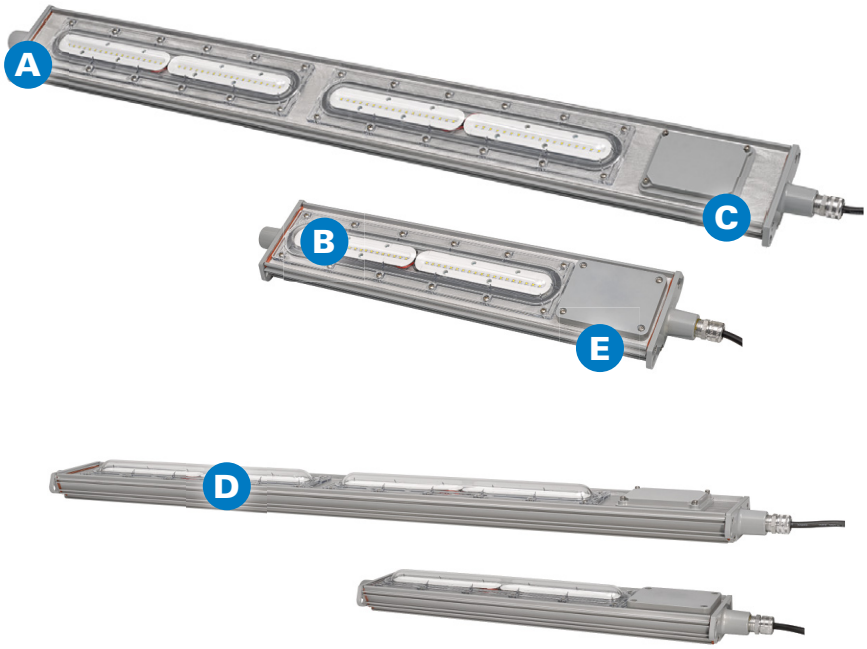
ELECTRICAL RATINGS

- Voltages: 120-277 VAC/108-250 VDC, 347/480 VAC
- Input power: 29W, 43W, 62W, 85W, 113W, 130W, 168W, 196W, 232W

OPTIONS AND ACCESSORIES

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

Champ® PLL linear LED luminaire



PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent fluorecsent luminaire	Typical energy savings/lifetime
PLL2	2 x 2 ft. T5/T8/ T12HO	Up to 63% reduction in energy costs and 60,000 hours of continuous operation!
PLL4	2 x 4 ft. T5/T8/ T12HO	

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

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

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

OPTIONS AND ACCESSORIES

- Glass or polycarbonate lens
- Diffused glass or polycarbonate lens
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish

DESIGN FEATURES

A **Best-in-class efficacy -** Up to 130 lumens per watt.

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

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

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

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

NEC CEC

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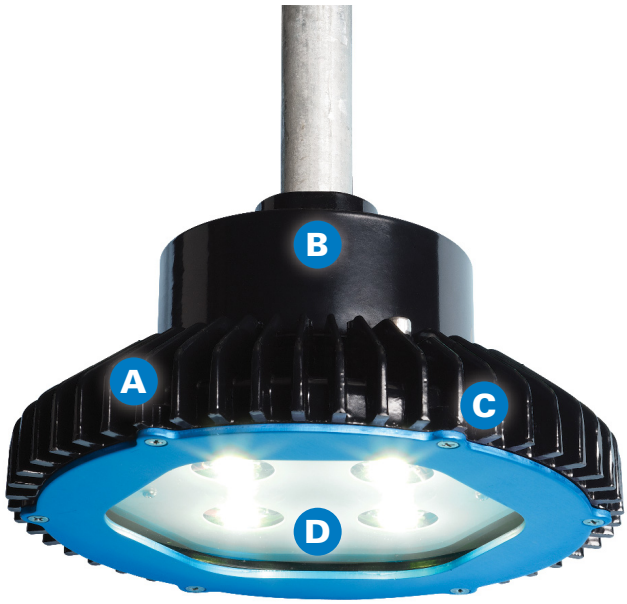
Vaporgard™ Pro P2L LED luminaires



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

DESIGN FEATURES

- **A** **Domeless reflector, low profile design -** Designed for low mounting heights and confined spaces where incandescent and HID based luminaires are too large.
- **B** **Installation and replacement made simple -** Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard™ fixtures.
- **C** **Safe, reliable heat transfer -** Heat sink engineered to safely and effectively remove heat from the LED and driver, ensuring long product life and superior T-ratings.
- **D** **High power multi-die LED arrays -** Provides instant on and full illumination in the harshest conditions, even when exposed to high, repeated vibration.

NEC CEC

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

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
P2LC/UNV1	50W HID or 100-200W incandescent	Up to 85% reduction in energy costs and 50,000 hours of continuous operation!
P2LW/UNV1		
P2LC/DC1		
P2LW/DC1		

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

- Voltages: 90-264 VAC; 277 VAC, 12-24 VDC
- Input power: 22W

OPTIONS AND ACCESSORIES

- Frosted lens
- Teflon coated lens
- High temperature option (55°C)
- Warm white (3000K) and cool white (5600K) color temperatures
- 12-24 VDC driver

Endure™ LED wall pack

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
FM1 B01	50W	59%
FM1 B02	70W	43%
50,000 hours of continuous operation!		

CERTIFICATIONS & COMPLIANCES

- UL1598
- cUL
- IP66

ELECTRICAL RATINGS

- Input power: 27W, 51W

50,000 hours rated life and up to 59% more energy-efficient than equivalent 70 watt HID luminaire

DESIGN FEATURES

A **White light -** Provides superior color rendering and ambient clarity. Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing.

B **Energy efficiency and longer life -** 50,000 hours rated life and up to 59% more energy-efficient than the 70W high pressure sodium equivalent.

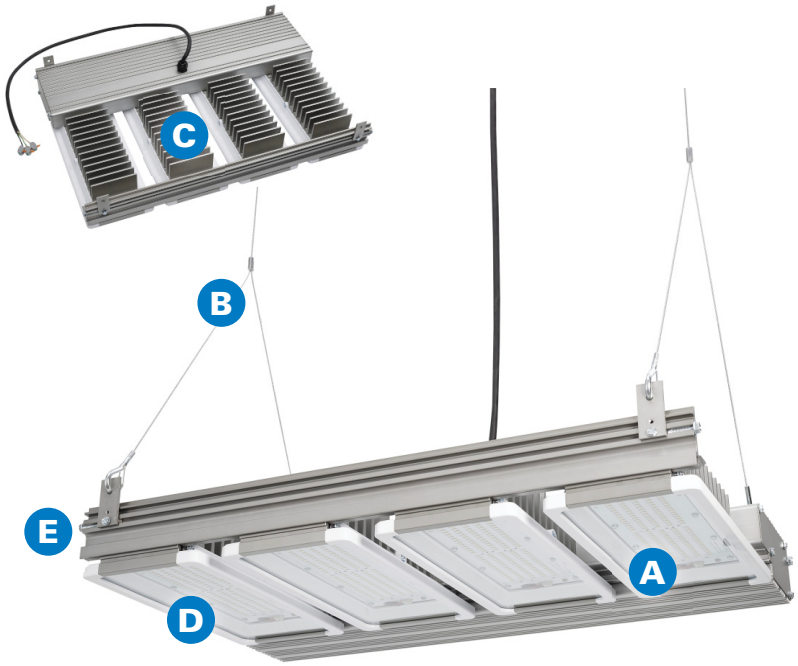
C **Reduction in light pollution -** Controlled distribution of light means far less light loss.

D **IP66 ingress protection rating and -30°C to 50°C ambient temperature rating -** Ensures trouble-free operation in a variety of harsh and complex applications.

E **Junction box -** Polycarbonate, IP66 rated, four screws to access cover, double row terminal box to expedite installation.

NEC

Industrial High Bay LED luminaires



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

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

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

DESIGN FEATURES

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

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

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

OPTIONS AND ACCESSORIES

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

NEC CEC

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

Champ® FMV LED floodlights

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
FMV3L	70W	Up to 78% reduction in energy costs and 60,000 hours of continuous operation!
FMV5L	100W-150W	
FMV7L	150W-175W	
FMV9L	175W-250W	
FMV11L	250W-400W	
FMV13L	400W	
FMV15L	400W-500W	
FMV20L	600W-750W	
FMV25L	705W-1000W	
FMV50L	1,500W	

CERTIFICATIONS & COMPLIANCES

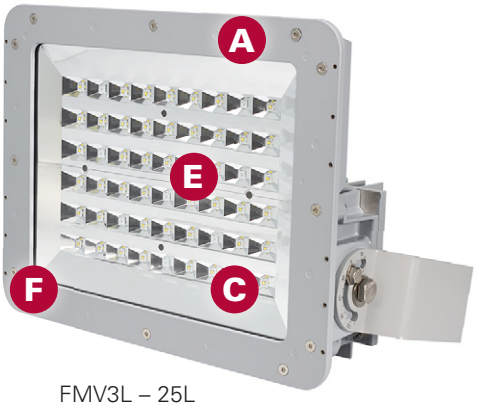
- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2
- Class II, Groups E, F, G; Simultaneous Presence; Class III
- Type 4X, IP66
- UL844; UL1598; UL1598A; UL8750
- CSA C22.2 No. 137
- IECEx/ATEX Certified; Zone 2/22
- CE
- DesignLights Consortium® approved for select models*

ELECTRICAL RATINGS

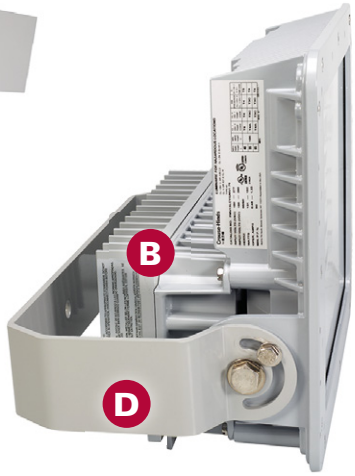
- Voltages: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 28W, 45W, 62W, 79W, 99W, 112W, 131W, 175W, 216W, 531W

OPTIONS AND ACCESSORIES

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



FMV3L – 25L



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

DESIGN FEATURES

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

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

C **High lumen output -** Up to 117 lumens per watt.

D **Full-frame yoke -** Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations.

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

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

IEC NEC CEC INMETRO GOST

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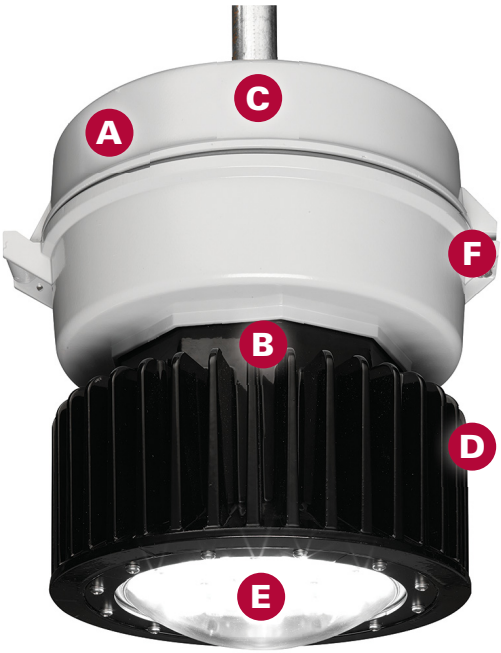
Champ® VMV LED luminaires



VMV3L – 11L

VMV13L and 17L

VMV21L and 25L

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

DESIGN FEATURES

- **A** **Modular design -** This contractor-friendly design is ideal for both retrofit and new construction applications.
- **B** **Safe, reliable heat transfer -** Die cast aluminum housing provides safe and effective heat transfer from the LED assembly to the outside environment, ensuring low LED junction temperature, reliability and sustained lumen performance.
- **C** **High efficiency drivers -** Designed to provide reliable operation in even the harshest environments.
- **D** **Type 4X rated -** The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly. The impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- **E** **Custom optics -** Type I, III and V optics designed to maximize light distribution and intensity.
- **F** **Lever-lock connectors and 3-pole terminal block.**

IEC NEC CEC INMETRO GOST

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

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
VMV3L	70W-100W	Up to 77% reduction in energy costs and 60,000 hours of continuous operation!
VMV5L	100W-150W	
VMV7L	150W-175W	
VMV9L	250W-320W	
VMV11L	320W-400W	
VMV13L	400W	
VMV17L	400W-600W	
VMV21L	600W-750W	
VMV25L	750W-1000W	

CERTIFICATIONS & COMPLIANCES

- 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
- Simultaneous presence
- UL844; UL1598; UL1598A; UL8750; UL50; UL50E
- cUL Listed to CSA C22.2 No. 137
- NEMA 4X, IP66, Wet Locations
- IECEx/ATEX Certified; Zone 2/21
- DesignLights Consortium® approved for select models*
- CE

ELECTRICAL RATINGS

- Voltages: 120-277 VAC/ 108-250 VDC, 347/480 VAC
- Input power: 29W, 43W, 62W, 85W, 113W, 131W, 168W, 196W, 232W

OPTIONS AND ACCESSORIES

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

Hazard•Gard® XPL linear LED luminaires

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent fluorecsent luminaire	Typical energy savings/lifetime
XPL2	2 x 2 ft. T5/T8/ T12HO	Up to 53% reduction in energy costs and 60,000 hours of continuous operation!
XPL4	2 x 4 ft. T5/T8/ T12HO	

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

- Voltage: 100-277 VAC/108-250 VDC, 347-480 VAC
- Input power: 34W, 63W

OPTIONS AND ACCESSORIES

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

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

DESIGN FEATURES

A **Best-in-class efficacy -** Up to 130 lumens per watt.

B **Custom optics -** Standard wide (120°) beam spread maximizes illumination on wall panels.

C **Built to last -** 2,000 psi high pressure hose down rated; passed 5G vibration test; 60,000 hour lifetime @ 55°C ambient.

D **Slim profile -** Less than 5" fixture height (excluding mounting brackets), perfect for mounting in confined or low height areas.

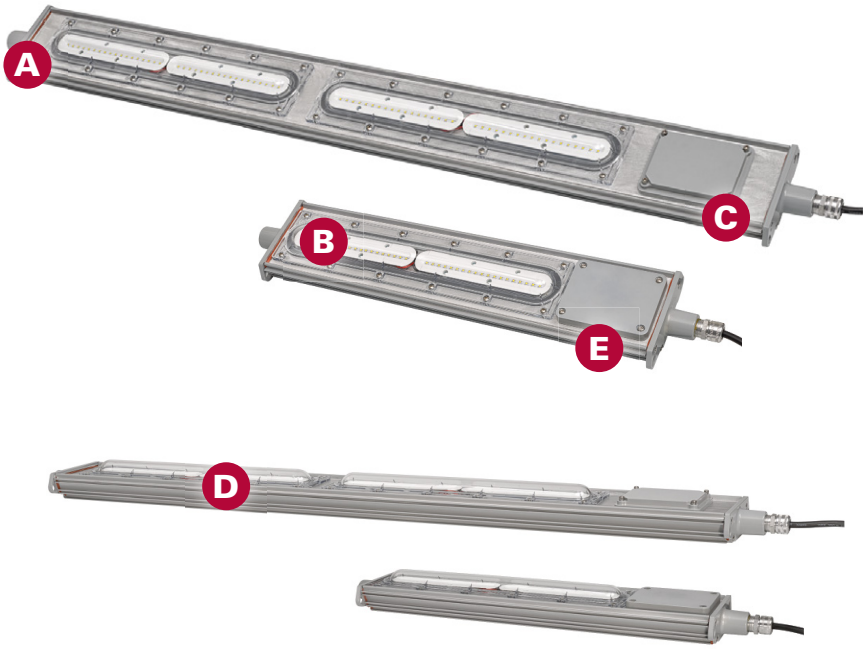
E **Quick & easy installation -** Easy access to drivers and wiring; no custom brackets or hardware needed; Two mounting options available.

NEC CEC

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

** See product brochure for lens type.

Champ® MLL linear LED luminaires



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

DESIGN FEATURES

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

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model Number	Equivalent fluorecsent luminaire	Typical energy savings/lifetime
MLL2	2 x 2 ft. T5/T8/ T12HO	Up to 67% reduction in energy costs and 60,000 hours of continuous operation!
MLL4	2 x 4 ft. T5/T8/ T12HO	

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

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

OPTIONS AND ACCESSORIES

- Glass or polycarbonate lens
- Diffused glass or polycarbonate lens
- Flush/back, ceiling/swivel, wall, offset wall, pole and pendant mounts
- Safety chain kit
- Epoxy painted or natural aluminum finish

NEC CEC

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

** See product brochure for lens type.

Hazard•Gard® EVLL LED luminaires

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

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

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

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

OPTIONS AND ACCESSORIES

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

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

DESIGN FEATURES

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

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

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

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

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

IEC NEC CEC

EV
LED luminaires

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

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

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

CERTIFICATIONS & COMPLIANCES

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

DESIGN FEATURES

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

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

ELECTRICAL RATINGS

- Voltages: 100-277 VAC, 10-30 VDC
- Input power: 26W, 30W, 36W

OPTIONS AND ACCESSORIES

- Amber color
- Color temperature: warm white (3500K)
- 10-30 VDC

NEC CEC GOST

Vaporgard™ LED luminaires

PRIMARY APPLICATIONS

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

LUMINAIRE MODEL

Model number	Equivalent luminaire	Typical energy savings/lifetime
V2L	100W-200W incandescent	Up to 85% reduction in energy costs and 60,000 hours of continuous operation!
	50W HID	

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

- Voltages: 90-264 VAC, 277 VAC, 12-24 VDC
- Input power: 22W

OPTIONS AND ACCESSORIES

- Frosted lens
- Teflon coated lens
- High temperature option (55°C)
- Brazil (CEPEL) Certification
- Color temperature: Warm white (3000K)
- 12-24 VDC Driver

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

DESIGN FEATURES

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

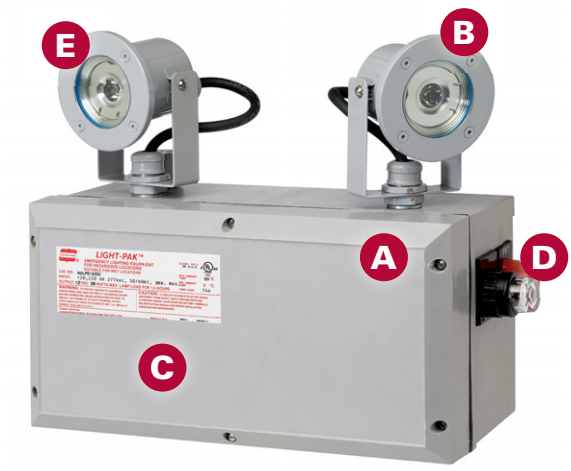
B **Installation and replacement made simple -** Installed using the same mounting modules as existing Eaton's Crouse-Hinds Vaporgard™ fixtures.

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

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

IEC NEC CEC INMETRO GOST

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



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

N2LPS DESIGN FEATURES

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

Exit Lighting DESIGN FEATURES

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

NEC CEC

Emergency & exit lighting

IEC

Exit lighting only

LED emergency and exit luminaires

Light-Pak™ N2LPS Emergency Lighting

PRIMARY APPLICATIONS

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

LUMINAIRE MODEL

Model number	Battery life
N2LPS	90 minutes

CERTIFICATIONS & COMPLIANCES

- Class I, Division 2, Groups B, C, D
- Class I, Zone 2
- UL844; UL924; UL1598A
- 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, 277 sVAC; 28W max.

LED Exit Signs

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model Number	Rating	Battery
Ex-Lite Z	Hazardous	No
Ex-Lite ZE	Hazardous	Yes
CCH UX	Industrial/Hazardous	Optional

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; UL60079CSA22.2 E60079; UL1203/CSA22.2 E6124-1-1-02

CCH UX:

- NEMA 4X; UL50
- UL924 Wet Location
- IP65; IP66
- Class I, Division 2, Groups A, B, C, D
- NSF

ELECTRICAL RATINGS

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

eLLK
linear LED luminaires

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

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

CERTIFICATIONS & COMPLIANCES

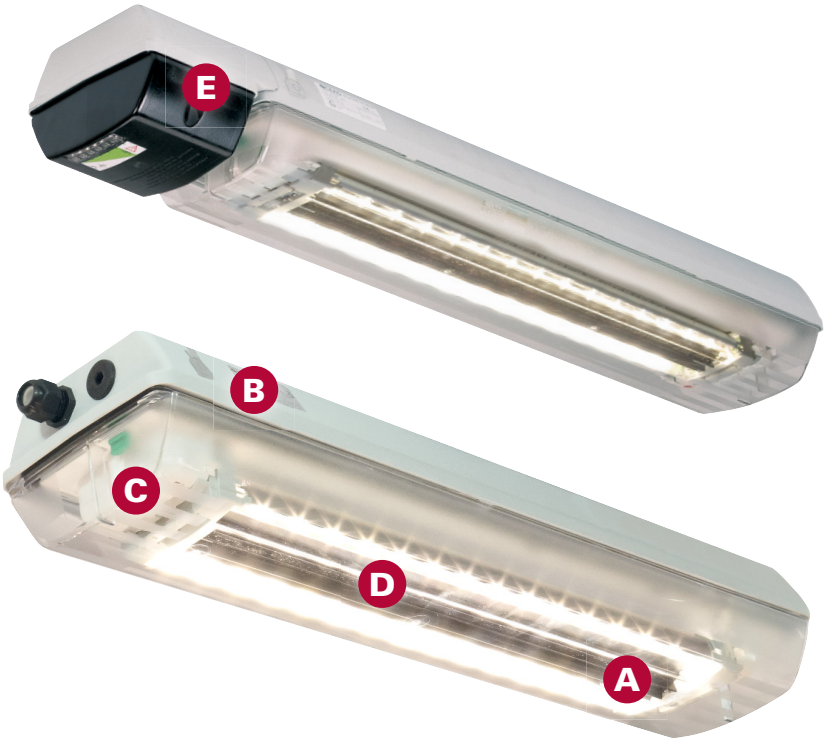
- Ⓔx II 2G Ex de mb IIC T4 Gb
- Ⓔx II 2D Ex tb IIIC T80 °C Db IP66
- BVS 09 ATEX E 034
- Ex de mb IIC T4 Gb/Ex tb IIIC T80 °C
- IECEx BVS 09.0033
- CSAus, Zone 1 (Division 2)

ELECTRICAL RATINGS

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

OPTIONS AND ACCESSORIES

- LED module 400 (2x13W) for eLLK/M 92 018/18
- LED module 800 (2x26W) for eLLK/M 92 036/36
- Through wiring single/double ended
- Cable glands
  - Ex-e M25 x 1.5 (plastic) for cables 8-17mm in diameter
  - M20 x 1.5 metal threaded



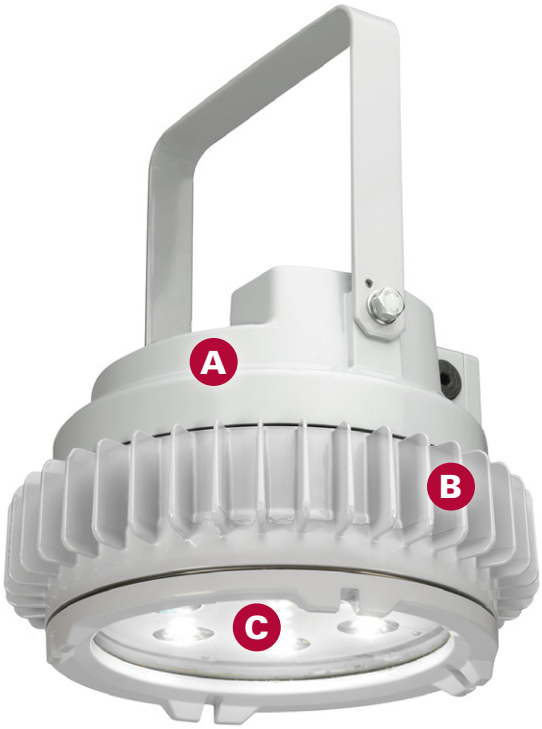
Saves on energy consumption and easily retrofit existing luminaires in hazardous and corrosive environments

DESIGN FEATURES

- **A** **High output -** Illuminance (lux/Fc) equivalent to related fluorescent tubes at measurement plane.
- **B** **Non-metallic design -** Fiberglass-reinforced polyester construction for extreme durability.
- **C** **Retrofit friendly -** Retrofits to existing eLLK/nLLK fixtures with existing EVG 09 ballast or as a complete unit.
- **D** **Better visibility -** Glare minimized by indirect emission from luminaire's built-in reflector.
- **E** **Emergency battery pack -** (NiB versions only)

IEC NEC CEC GOST

LPL
LED luminaires



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

DESIGN FEATURES

- **A** **Robust construction -** This corrosion-proof fixture offers high quality, shock- and vibration-resistant LEDs, copper-free aluminum housing and an impact-resistant glass globe.
- **B** **Excellent thermal management -** Provides over 50,000 hours of life.
- **C** **Lead-free and environmentally-friendly.**

IEC

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model Number	Equivalent HID Luminaire	Typical Energy Savings/Lifetime
LPL06-C57-5L	70W-100W	Up to 40% reduction in energy costs and 60,000 hours of continuous operation!
LPL06-C57-7L	150W	
LPL06-C57-9L	175W	
LPL06-C57-10L	250W	

CERTIFICATIONS & COMPLIANCES

- Ex d e IIC T6/T5 Gb
- Ex tb IIIc T80°C/T100°C
- EC-type Exam Certification: DNV 11 ATEX 06805X
- IECEx - Certificate of Conformity: IECEx-CM 12.0007X
- IP66
- Zones 1 and 2 (Ex-Gas)
- Zones 21 and 22 (Ex-Dust)
- CE

ELECTRICAL RATINGS

- Voltage: 100-277 VAC

OPTIONS AND ACCESSORIES

- Warm white color temperature (3300K)
- Pole mount accessories

EV35
LED luminaire

PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

Model number	Equivalent luminaire	Typical energy savings/lifetime
EV35	100W-150W Incandescent	78%
	50W HID	40%
60,000 hours of continuous operation!		

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

- Voltages: 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

Up to 78% more energy-efficient than a 150 watt incandescent and over 20 times the rated life

DESIGN FEATURES

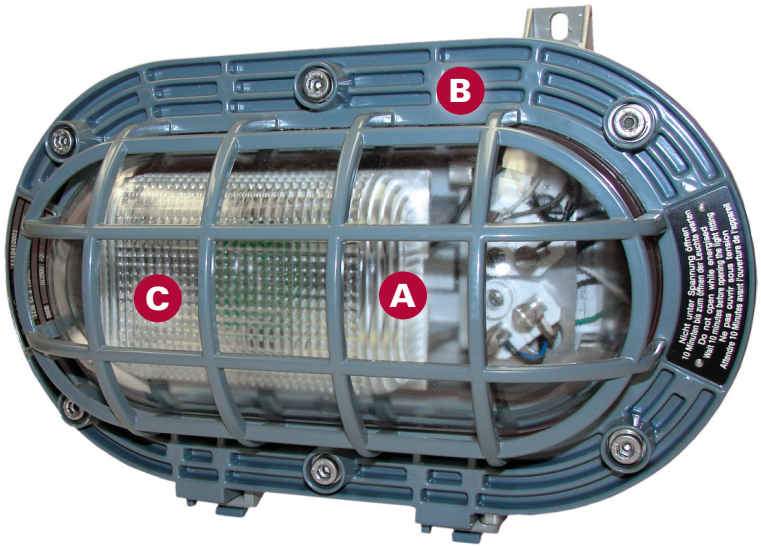
A **Wide ambient temperature range from -40°C to +55°C -** Allows installation and safe use in nearly every climatic condition.

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.

IEC

AB05
marine LED luminaire



PRIMARY APPLICATIONS

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

LUMINAIRE MODELS

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

CERTIFICATIONS & COMPLIANCES

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

ELECTRICAL RATINGS

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

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

DESIGN FEATURES

Ⓐ **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.

IEC

PXLED
LED floodlights

PRIMARY APPLICATIONS

Hazardous locations, on- and offshore drilling, heavy industrial, chemical, petrochemical, oil and gas, pharmaceuticals, shipyards, dockyards, power generation, paper mills, wastewater treatment indoor and outdoor with potentially explosive areas under harsh conditions like vibrations, dust, moisture or corrosive atmospheres and extreme temperatures.

LUMINAIRE MODELS

Model number	Equivalent HID luminaire	Typical energy savings/lifetime
PXLED5L	150W	Up to 70% reduction in energy costs and 60,000 hours of continuous operation!
PXLED10L	250W	
PXLED15L	450W	
PXLED20L	600W	
PXLED25L	750W	
PXLED30L	1000W	

CERTIFICATIONS & COMPLIANCES

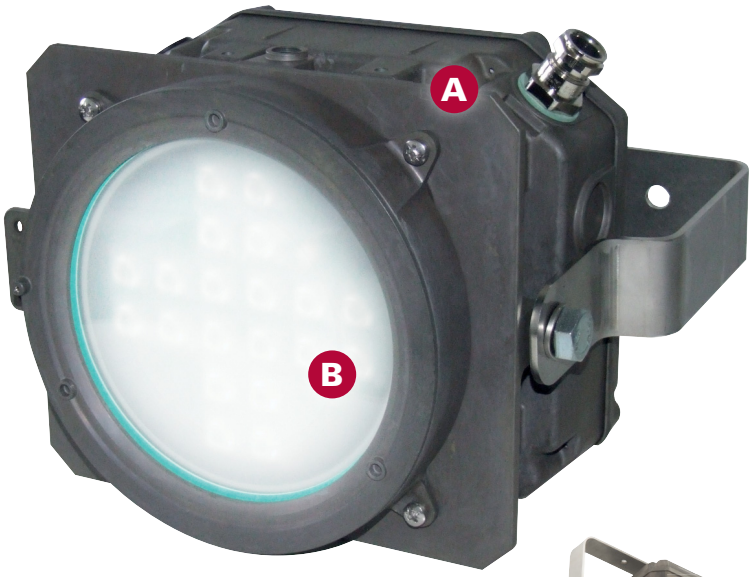
- BVS 17 ATEX E 013 X
- IECEx BVS 17.0004 X
- Ⓔx II 2 G Ex db eb op is q IIC T4 Gb/ Ⓔx II 2 D Ex tb op is IIIC T100°C Db
- Ex db eb op is q IIC T4 Gb/ Ex tb op is IIIC T100°C Db
- IP66

ELECTRICAL RATINGS

- Voltages: 110-277 VAC, 127-270 VDC
- Input power: 49W, 98W, 147W, 196W, 245W, 294W

OPTIONS AND ACCESSORIES

- Wide or narrow beam options
- Clear or frosted lens optons



Up to 70% more energy-efficient than HID and six easy to install models from 5,000 to 30,000 lumens

DESIGN FEATURES

A **Wide ambient temperature range from -50°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 **Modular design -** Six models are available form 5,000 to 30,000 lumens.

IEC

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