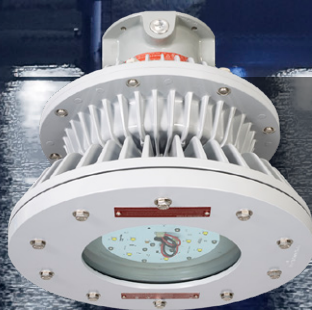


Hazardous Area LED Lighting

CROUSE-HINDS
SERIES

Hazard·Gard EVLLA

Explosionproof LED lighting for hazardous areas



Safe. Reliable. Efficient.
4 models from 5,000 to 13,000 lumens

EATON

Powering Business Worldwide



Hazard•Gard EVLLA LED

Safe. Reliable. Efficient.

Featuring a broad range of LED luminaires for harsh, hazardous and industrial environments, Eaton's Crouse-Hinds delivers lighting solutions that perform reliably even in the worst operating conditions. This reduces energy, maintenance and manpower costs.

Why LED?

Useful life

Rated life of 60,000 hours of maintenance-free and safe operation

Energy efficiency

LED average energy consumption is 50% less than HID and 85% less than incandescent

Start/restart time

Instant illumination compared to 10 minute restrike time for HID

Light quality

Higher color rendering and color temperature compared to fluorescent

Environmental benefits

Mercury-free LED eliminates disposal costs and lower energy consumption for a smaller carbon footprint

Why Crouse-Hinds?

Industry-best reliability

Built to withstand extreme temperatures, vibration, water and dust

Thermal management

Effective heat sinking ensures longer life

Quality of light

Custom optics designed to maximize light distribution and intensity

Retrofit compatibility

LED fixtures are compatible with Crouse-Hinds' HID installed base

Why Hazard•Gard EVLLA LED?

Designed for hazardous areas. Hazard•Gard EVLLA LED luminaires are engineered to stand up to the demanding conditions faced in Class I, Division 1 environments. The rugged design and efficient heat dissipation stands up to challenging conditions while delivering long life and high lumen performance.

Factory sealed

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



Optional color temperatures

- Warm, neutral or cool white color temperatures available.

Rugged design

- The LED housing is constructed of durable die cast aluminum, providing an efficient thermal path to the heat sink assembly.
- Impact-resistant lens is sealed from the outside environment and provides ingress protection against water and dust.
- Multi-die LEDs are used to provide energy-efficient, long life white light.



Robust heat sink

- Heat sink designed to perform in high ambient temperatures up to +65°C* and as low as -25°C.
- Thick walled castings make for a tough, rugged housing that keeps the internal driver and LED temperature down.

* EVLLA5-EVLLA9 models

Easy installation and replacement

- Contractor-friendly design is ideal for both retrofit and new construction applications.
- Installed using the same mounting modules as existing Hazard•Gard Series luminaires.
- Quick-connect design facilitates installation – install and wire the mounting module, then screw in your luminaire. Two start Acme threads ease and reduce installation time.



Case study: HID to LED retrofit

Location:

Petrochemical facility

Challenge:

Find a rugged, low maintenance solution to replace existing 400W pulse start metal halide HID luminaires

Solution:

Install EVLLA-13, 129W LEDs

Results:

Energy consumption was reduced by 62%. Quick-connect design mounting modules made installation easy, and lamp maintenance was virtually eliminated.



Features & benefits

Hazard•Gard EVLLA LED luminaires

The hazardous rated Hazard•Gard EVLLA LED luminaire is used for general lighting in areas where flammable or explosive vapors or gases are present.

Model number	Nominal lumens	Wattage*	Equivalent HID luminaire	Typical energy savings/lifetime
EVLLA5L	6,200	59	100W-150W	62% energy savings and over 60,000 hours of continuous operation!
EVLLA7L	7,600	69	150W-175W	
EVLLA9L	8,700	81	175W-250W	
EVLLA11L	12,000	115	250W-320W	
EVLLA13L	13,000	130	320W-400W	

* UNV1 at 120 VAC.

Applications:

- For areas with mounting heights of up to 30 feet
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- NEMA 4X, marine, wet locations and hose-down environments
- Classified and hazardous locations



Safe. Reliable. Efficient.
4 models from 5,000 to 13,000 lumens



Features and benefits:

Industry best ease of installation

- Quick-connect design – install and wire the mounting module, then simply screw in the luminaire
- Factory sealed – no external sealing fittings required in Groups B, C and D
- Adapter available for connection to existing Hazard•Gard EVI, EVLP and EVM modules

Reduce operation and maintenance costs

- Energy-efficient – up to 62% reduction in energy used versus equivalent HID fixtures
- 60,000 hours rated life – eliminates need for frequent lamp replacement
- 6kV surge protection

Reliable performance in any environment

- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- T6 temperature rating
- 5 year fixture warranty†

†Refer the authorized distributor price book for Crouse-Hinds standard Terms and Conditions.

Operating ambient temperature:

- -25°C to 65°C (5L to 9L)
- -25°C to 55°C (11L and 13L)

Certifications and compliances:

NEC and CEC

- Class I, Division 1, Groups B, C, D
- Class II, Groups E, F, G
- Class III, Simultaneous Presence
- Wet Locations, NEMA 4X, IP66

UL Standards

- UL844; UL1598; UL1598A

CSA Standard

- CSA C22.2 No. 137

Specifications

Electrical ratings:

All models

Voltage range, VAC	120-277	THD	<15%
Frequency	50/60 Hz	Power factor	>.90

UNV1

	5L	7L	9L	11L	13L
Input power (watts)	59	69	81	115	130
Input amps at 120-277 VAC	0.49 -0.22	0.58-0.26	0.68-0.30	0.96-0.43	1.08-0.48
Maintained lumens	6,200	7,600	8,700	12,000	13,000

UNV34

	5L	7L	9L	11L	13L
Input power (watts)	49	68	80	104	128
Input amps at 347-480 VAC	0.15-0.11	0.20-0.15	0.23-0.17	0.30-0.23	0.37-0.28
Maintained lumens	5,500	7,600	9,000	11,000	13,300

Standard materials:

- Body and mounting modules – copper-free aluminum with Corro-free™ epoxy powder coat
- Lens – shatter-resistant, explosionproof glass
- Gaskets – silicone
- Guard – stainless steel
- External hardware – stainless steel
- Factory sealed*

* Refer to Installation and Maintenance Sheet for external seal requirements.

LED system:

- Cool white (5000K), CRI 70
- Neutral white (4000K), CRI 70
- Warm white (3000K), CRI 80
- Array complies with requirements of LM79 and LM80

Temperature codes:

Model number	Max. ambient temp. °C	Class I, Div. 1	Class II, Div. 1 & 2	Class I, II simultaneous
EVLLA5L	40°	T6	T6	T6
	55°	T6	T6	T6
	65°	T6	T6	T6
EVLLA7L	40°	T6	T6	T6
	55°	T6	T6	T6
	65°	T6	T6	T6
EVLLA9L	40°	T6	T6	T6
	55°	T6	T6	T6
	65°	T6	T6	T6
EVLLA11L	40°	T6	T6	T6
	55°	T6	T6	T6
EVLLA13L	40°	T6	T6	T6
	55°	T6	T6	T6



Weights:

Model number	Lbs.	Kg.
EVLLA5L	51.76	23.48
EVLLA7L	51.81	23.50
EVLLA9L	52.38	23.76
EVLLA11L	53.00	24.04
EVLLA13L	53.00	24.04

Add additional weights for mounting module

Pendant mount	2.00	0.90
Ceiling mount	3.50	1.59
Wall mount	3.00	1.36
Stanchion mount	5.50	2.49
Adapter	2.00	0.90

Hazard•Gard EVLLA, NEC and CEC certified 6,200 lumen, cool white, pendant mount, ¾" NPT hubs, UNV1 driver



Color temperature

Mounting style

* EVSA adapter for use with existing Crouse-Hinds EVI, EVLP and EVM mounting modules.

Suffixes

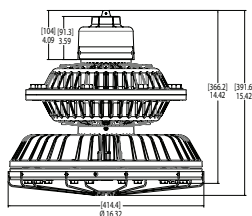
Voltage

Guard

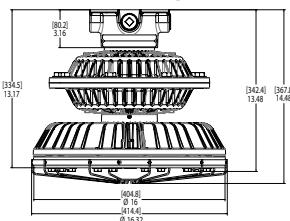
Hub size

BLANK	Mounting module adapter or no mounting module
2	¾" NPT (pendant, ceiling and wall only)
3	1" NPT (pendant, ceiling and wall only)
5	1-½" NPT (stanchion only)
25	25 mm (pendant, ceiling and wall only)
32	32 mm (pendant, ceiling and wall only)

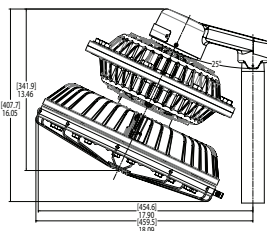
Pendant



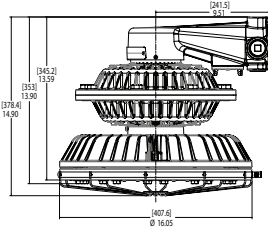
Ceiling



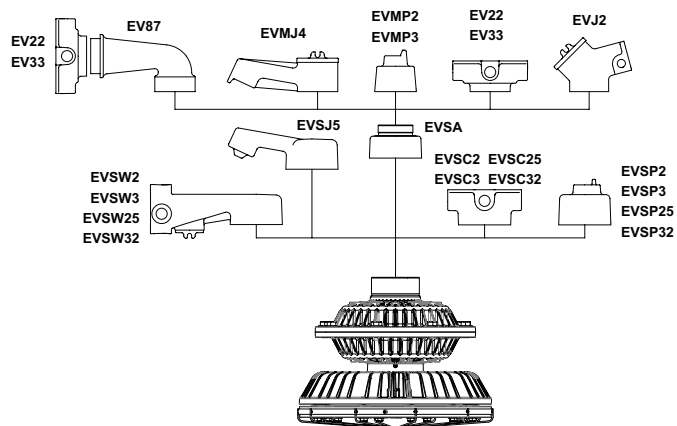
Stanchion



Wall

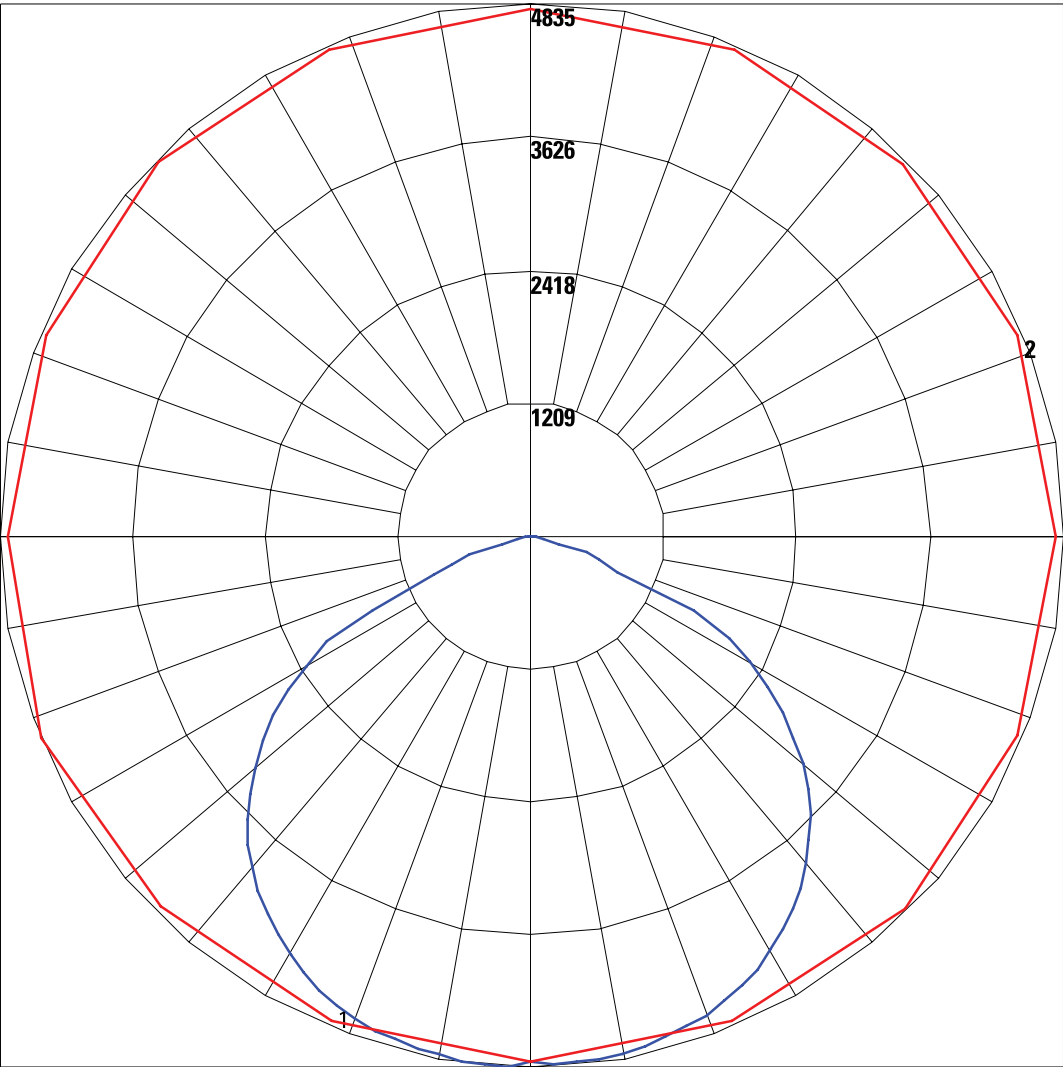


Family tree



Photometric data

Polar plot candela



EVLLA13L LED (129 Watt)

Zone	% of luminaire
0-30	28.5%
0-40	47.7%
0-60	86.4%
0-90	100.0%
90-180	0.00%
0-180	100.0%

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Printed in USA
Publication No. 5475-0221
February 2021

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