





## 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	
EVLLA7L	7,600	69	150W-175W	savings and	
EVLLA9L	8,700	81	175W-250W	over 60,000 hours of	
EVLLA11L	12,000	115	250W-320W	continuous	
EVLLA13L	13,000	130	320W-400W	operation!	

<sup>\*</sup> 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





#### 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†

#### 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

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

## **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
	40°	T6	T6	T6
EVLLA5L	55°	T6	T6	T6
	65°	T6	T6	T6
	40°	T6	T6	T6
EVLLA7L	55°	T6	T6	T6
	65°	T6	T6	T6
	40°	T6	T6	T6
EVLLA9L	55°	T6	T6	T6
	65°	T6	T6	T6
EVLLA11L	40°	T6	T6	T6
EVLLATIL	55°	T6	T6	T6
EVLLA13L	40°	T6	T6	T6
EVLLAISL	55°	T6	T6	T6



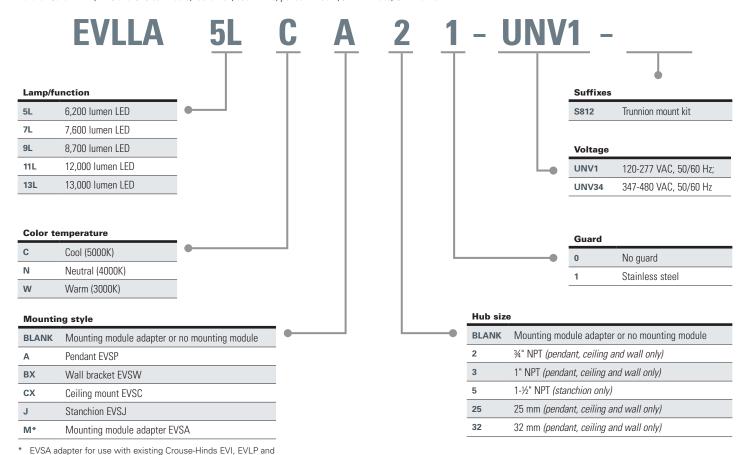
#### Weights:

•			
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	

## **Ordering information**

## Part number example EVLLA5LCA21-UNV1

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

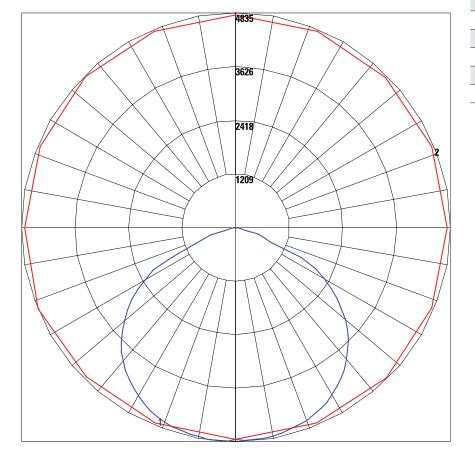


EVM mounting modules.

Replacement driver kits (ordered separately)		
EVLLA-5L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for EVLLA5L	
EVLLA-5L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for EVLLA5L	
EVLLA-7L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for EVLLA7L	
EVLLA-7L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for EVLLA7L	
EVLLA-9L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for EVLLA9L	
EVLLA-9L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for EVLLA9L	
EVLLA-11L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for EVLLA11L	
EVLLA-11L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for EVLLA11L	
EVLLA-13L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for EVLLA13L	
EVLLA-13L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for EVLLA13L	

## Photometric data

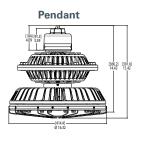
## Polar plot candela

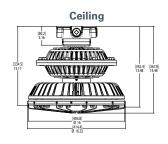


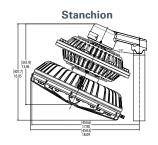
#### EVLLA13L LED (129 Watt)

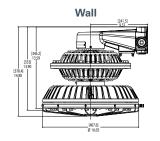
Zone	% of luminaire
0-30	28.5%
0-40	47.7%
0-60	86.4%
0-90	100.0%
90-180	0.00%
0-180	100.0%

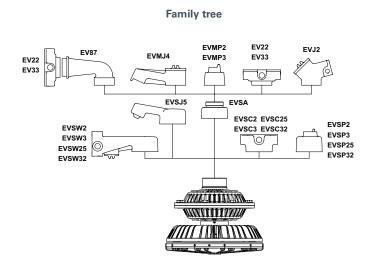
#### Mounting options and dimensions:











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