Hazard-Gard EVLLA explosionproof LED luminaires

Class I, Division 1 factory sealed LED luminaire for general illumination

Cl. I, Div. 1, Groups B, C, D
Cl. II, Groups E, F, G
Cl. III & Simultaneous Presence

UL Listed
CSA Certified
Wet Locations
NEMA 4X; IP66

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	Nominal lumens	Watts[A]	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	



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:

- 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
- 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
- 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-9L models); -25°C to 55°C (11L and 13L models)

Certifications and compliances:

NEC/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

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[B]

Electrical ratings:

All models			
Voltage range, VAC	120-277	THD	<15%
Frequency	50/60 Hz	Power factor	>0.90

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

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

Photometrics:

- Refer to www.eaton.com (under the Resources tab of each product family) for specific photometric IES files

[A] UNV1 at 120 VAC.

[B] Refer to installation and maintenance sheet for external seal requirements.

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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



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[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

Optional color temperatures

- Warm, neutral or cool white color temperatures available



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 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

[C] EVLLA5L-EVLLA9L models.

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Ordering information:

Part number example
EVLLA5LCA21-UNV1-S812

EVLLA 5L C A 2 1 -UNV1 -S812

Lamp / function

5L	6,200 lumen LED
7L	7,600 lumen LED
9L	8,700 lumen LED
11L	12,000 lumen LED
13L	13,000 lumen LED

Color temperature

C	Cool (5000K)
N	Neutral (4000K)
W	Warm (3000K)

Mounting style

BLANK	Mounting module adapter or no mounting module
A	Pendant EVSP
BX	Wall bracket EVSW
CX	Ceiling mount EVSC
J	Stanchion mount EVSJ
M[D]	Mounting module adapter EVSA

Hub size

BLANK	Mounting module adapter or no mounting module
2	¾" NPT *(pendant, ceiling and wall mount only)*
3	1" NPT *(pendant, ceiling and wall mount only)*
5	1½" NPT *(stanchion mount only)*
25	25mm *(pendant, ceiling and wall mount only)*
32	32mm *(pendant, ceiling and wall mount only)*

Guard

0	No guard
1	Stainless steel

Voltage

UNV1	120-277 VAC, 50/60 Hz
UNV34	347-480 VAC, 50/60 Hz

Options

S812	Trunnion mount kit

Accessories (ordered separately):

Description	Cat. #
• Stainless steel guard	**P71**

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

[D]EVSA adapter for use with existing Crouse-Hinds series EVI, EVLP and EVM mounting modules.

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Temperature performance data:

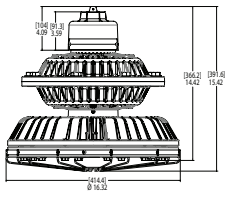
Model	Max. ambient temp. °C	Class I, Division 1	Class II, Divisions 1 & 2	Class I, II, Simultaneous Presence
EVLLA5L	40	T6	T6	T6
	55	T6	T6	T6
	65	T5	T6	T6
EVLLA7L	40	T6	T6	T6
	55	T6	T6	T6
	65	T5	T6	T6
EVLLA9L	40	T6	T6	T6
	55	T6	T6	T6
	65	T5	T6	T6
EVLLA11L	40	T6	T6	T6
	55	T6	T6	T6
EVLLA13L	40	T6	T6	T6
	55	T6	T6	T6

Net luminaire weights:

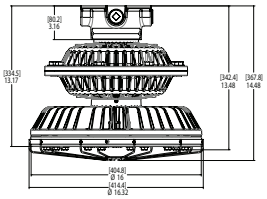
Model	Lbs.	Kg.
EVLLA5L	51.76	23.48
EVLLA7L	51.81	23.50
EVLLA9L	52.38	23.76
EVLLA11L	53.00	24.04
EVLLA13L	53.00	24.04
Add mounting modules:		
Pendant	2.00	0.90
Ceiling	3.50	1.59
Wall	3.00	1.36
Stanchion	5.50	2.49
Adapter	2.00	0.90

Dimensions:

Pendant

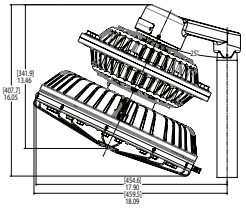


Ceiling

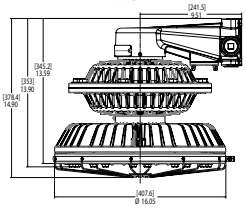


nEVLL only available with ceiling mount.

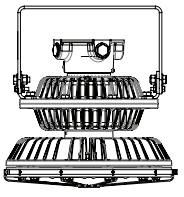
Stanchion



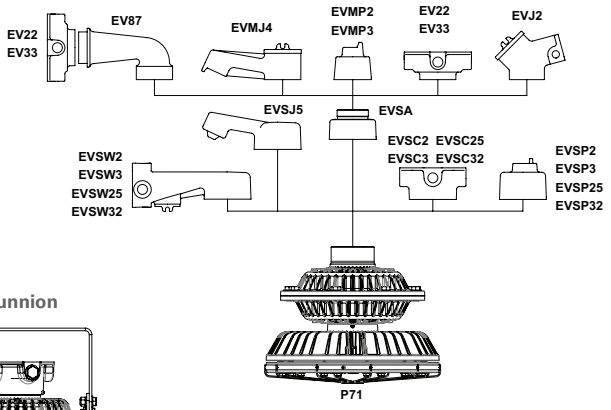
Wall



Trunnion



Family tree:



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