

# Hazard-Gard EVLL 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  
IECEX/ATEX  
Wet Locations  
NEMA 4X; IP66

2L

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

Model	Nominal lumens	Watts <sup>A</sup>	Equivalent HID luminaire	Typical energy savings / lifetime
EVLL5L	5,734	56	100W-150W	62% energy savings and over 60,000 hours of continuous operation
EVLL7L	8,293	85	150W-175W	
EVLL9L	10,313	115	175W-250W	
EVLL11L	10,997	112	250W-320W	
EVLL13L	13,583	149	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
- Shock- and vibration-resistant solid state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- T5 temperature rating
- 5 year fixture warranty

## Operating ambient temperature:

### EVLL:

- -25°C to 65°C (EVLL5L-EVLL9L);  
-25°C to 55°C (EVLL11L & EVLL13L)

### nEVLL:

- -20°C to 65°C (nEVLL5L-nEVLL9L);  
-20°C to 55°C (nEVLL11L & nEVLL13L)

## Certifications and compliances:

### EVLL models:

#### 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

### nEVLL models:

#### IECEX/ATEX:

- Ex II 2G Ex d IIC (Zone 1, 2)
- Ex II 2D Ex tD A21 IP66 (Zone 21, 22)

#### ATEX:

- DEMKO 14 ATEX 1302151X
- CE

#### IECEX:

- IECEX UL 14.0053X

#### EMC:

- 2004/108/EC

## Electrical ratings:

	EVLL5L	EVLL7L	EVLL9L	EVLL11L	EVLL13L
Voltage range, VAC	120-277	120-277	120-277	120-277	120-277
Frequency	50/60 Hz				
Input power (watts)	56	85	115	112	149
Input amps at 100-277 VAC	0.47 - 0.21	0.72 - 0.32	0.96 - 0.42	0.94 - 0.41	1.25 - 0.54
Voltage range, VDC	108-250	108-250	108-250	108-250	108-250
Input amps at 108-250 VDC	0.53 - 0.23	0.81 - 0.35	1.08 - 0.46	1.07 - 0.45	1.43 - 0.60
Power factor	>0.95	>0.95	>0.95	>0.95	>0.95
Maintained lumens	5,734	8,293	10,313	10,997	13,583



## Standard materials:

- Body and mounting modules – copper-free aluminum with Corro-free epoxy powder coat
- Lens – shatter-resistant, explosionproof glass
- Gaskets – Buna and Viton
- Guard – stainless steel
- External hardware – stainless steel
- Factory sealed<sup>B</sup>

## LED system:

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

## Photometrics:

- Complete photometrics can be found at [www.crouse-hinds.com/photometrics](http://www.crouse-hinds.com/photometrics)

<sup>A</sup> UNV1 at 120 VAC.

<sup>B</sup> Refer to installation and maintenance sheet for conduit seal requirements.

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**Designed for hazardous areas.** Hazard-Gard EVLL 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.

## 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

## Optional color temperatures

- Warm and 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

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## Ordering information:

Part number example

nEVLL5LCA20/UNV1 S812

<b>n</b>	<b>EVLL</b>	<b>5L</b>	<b>C</b>	<b>A</b>	<b>2</b>	<b>0</b>	<b>/UNV1</b>	<b>S812</b>
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Certification	
n	IEC certified
BLANK	NEC and CEC certified

Lamp / function	
5L	5,734 lumen LED
7L	8,293 lumen LED
9L	10,313 lumen LED
11L	10,997 lumen LED
13L	13,583 lumen LED

Color temperature	
C	Cool (5000K)
W	Warm (3000K)

Mounting style	
BLANK	Mounting module adapter or no mounting module
A	Pendant EVSP
BX	Wall bracket EVSW
CX <sup>ⓓ</sup>	Ceiling mount EVSC
J	Stanchion mount EVSJ
ME	Mounting module adapter EVSA

Options	
S812 <sup>ⓕ</sup>	Trunnion mount kit

Voltage	
/UNV1	120-277 VAC, 50/60 Hz; 108-250 VDC
/UNV34	347-480 VAC, 50/60 Hz

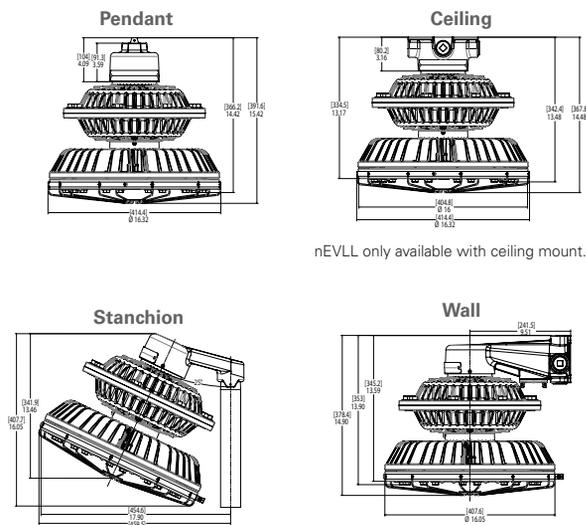
Guard	
0	No guard
1	Stainless steel

Hub size	
BLANK	Mounting module adapter or no mounting module
2	3/4" NPT (pendant, ceiling and wall mount only)
3	1" NPT (pendant, ceiling and wall mount only)
5	1 1/2" NPT (stanchion mount only)
25	25mm (pendant, ceiling and wall mount only)
32	32mm (pendant, ceiling and wall mount only)

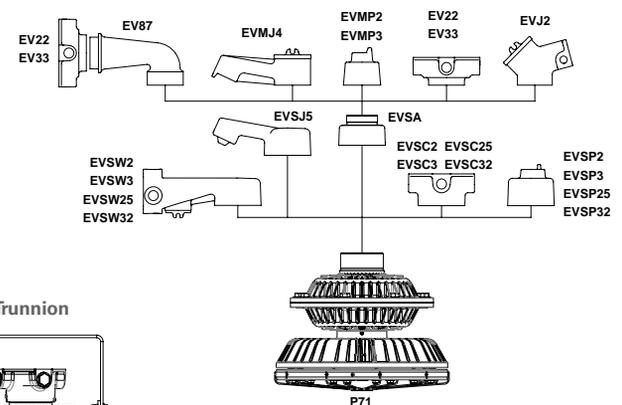
## Accessories (ordered separately):

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

## Dimensions:



## Family tree:



<sup>ⓓ</sup>nEVLL only available with ceiling mount or trunnion with ceiling mount.  
<sup>ⓔ</sup>EVSA adapter for use with existing Crouse-Hinds series EVI, EVLP and EVM mounting modules.  
<sup>ⓕ</sup>For pendant and ceiling mount only.

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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
EVLL5L	40	T6	T5	T5
	55	T6	T5	T5
	65	T5	—	—
EVLL7L	40	T6	T5	T5
	55	T6	T5	T5
	65	T5	—	—
EVLL9L	40	T6	T5	T5
	55	T6	T5	T5
	65	T5	—	—
EVLL11L	40	T6	T5	T5
	55	T6	T5	T5
	65	T5	—	—
EVLL13L	40	T6	T5	T5
	55	T6	T5	T5

Model	Max. ambient temp. °C	Zone 1	Zone 21
nEVLL 5L, 7L, 9L	65	T6	95
nEVLL 11L, 13L	55	T6	95

## Net luminaire weights:

Model	Lbs.	Kg.
EVLL5L	51.76	23.48
EVLL7L	51.81	23.50
EVLL9L	52.38	23.76
EVLL11L	53.00	24.04
EVLL13L	53.00	24.04
<b>Add mounting modules:</b>		
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