HPLN LED lighting for hazardous areas

Product introduction

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

The HPLN features a compact, high-efficacy design with custom optics to ensure maximum efficiency and mounting flexibility. It is designed for both pendant and floodlight application.

Model	Nominal* lumens	Wattage	HID Equivalent
HPLN-3L	3483	26	70W-100W
HPLN-5L	5323	40	100W-150W
HPLN-7L	6684	50	150W-175W
HPLN-9L	9574	70	175W-250W
HPLN-11L	11466	85	250W-450W
HPLN-15L	14783	110	400W
HPLN-21L	21128	163	600W
HPLN-25L	24229	190	600W-1000W

*tolerance±10%, nominal lumen data for 5700K,clear glass,wide bean angle

Application

- Locations requiring continuous and consistent light levels in extreme temperatures
- Areas requiring frequent on-and-off of lights
- Where flammable vapors, gases, ignitable dusts, fibers or flyings are present; indoors or outdoors
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Marine, wet locations and hose-down environments
- Manufacturing plants, heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, loading docks and tunnels etc.
- Optionally with DALI for controlling and monitoring the luminaire
- DALI 2 optional

Rated life of 5 years at 55°C provides long term, low-maintencnce operation.



HPLN LED benefits

- Instant illumination and strike
- Cold temperature operation/no warm up requirement
- Multiple mounting flexibility and easy maintenance
- Contains no mercury or other hazardous substance
- Shock-and vibration-resistant
- IP66 protection
- Ambient temperature: -40˚C to +55˚C

Standard materials

- Body and mounting modules – copper-free aluminum with C5M coating
- Lens-tempered and impact resistant glass globe
- Gaskets – silicone
- Guard – stainless steel

LED system

- Cold white 5700K,CRI70 as standard, optional: 2700k, 3000k, 4000K, 5000K
- 120˚ wide beam as standard, Narrow (25˚) / medium (60˚) beam optics as option
- Lumen efficiency up to 130 lm/w to save more energy

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Electrical rating

	3L	5L	7L	9L	11L	15L	21L	25L
Voltage range VAC	100~240	100~240	100~240	100~240	100~240	100~240	100~240	100~240
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Input power (watts)*	26	40	50	70	85	110	163	190
Input amps at 100~240 VAC	0.8A max@100VAC 0.35A max@240VAC			1.3A max@100VAC 0.6A max@240VAC		1.6A max@100VAC 0.7A max@240VAC	2.6A max@100VAC 1.2A max@240VAC	
Power factor	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Voltage range VDC	125~250	125~250	125~250	125~250	125~250	125~250	125~250	125~250
THD	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%

*1) Tolerance +/- 5%

Certifications and compliances

- Marking accd.to IECEx:
  Ex db eb mb op is IIC T4 Gb
  Ex tb op is IIIC T95˚C Db
- Marking accd.to 2014/34/EU:
  II 2 G Ex db eb mb op is IIC T4 Gb
  II 2 D Ex tb op is IIIC T95˚C Db
- Certificate No.
  IECEx PRE 19.0058X
  Presafe 19 ATEX 09286X
  IECEx_PRE_20.0006X

Weight

Model	Appr.kg
3L-11L	11kg
15L	14kg
21/25L	15kg

Ordering information

Part no.	Product type	T.amb	T code
CCL1753627	HPLN-3L-C3-20C-W	-40˚C~+55˚C	T4
CCL1753755	HPLN-5L-C3-20C-W		
CCL1753883	HPLN-7L-C3-20C-W		
CCL1754139	HPLN-11L-C3-20C-W		
CCL1754267	HPLN-15L-C3-20C-W		
CCL1754395	HPLN-21L-C3-20C-W		
CCL1754523	HPLN-25L-C3-20C-W		

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Ordering information

HPLN **-9L*** **-C3** **-20C** **-W**

Total lm	
3L	3483
5L	5323
7L	6684
9L	9574
11L	11466
15L	14783
21L	21128
25L	24229

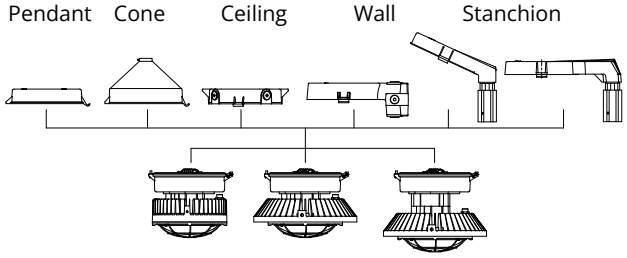
Color Temp.	
C3	5700K**

Mounting type	
J***	1-½" Stanchion, 25°Angled
P***	1-½" Stanchion, Straight
20A	20mm Pendant
25A	25mm Pendant
20C	20mm Ceiling
25C	25mm Ceiling
20TW	20mm Wall
25TW	25mm Wall

Bean angle	
W	Wide(120°)
M	Medium(60°)
N	Narrow(25°)

*tolerance±10%, nominal lumen data for 5700K,clear glass,wide bean angle
**5700K is standard version, if other option, pls contact Crouse-Hinds sales for details.
***with J and P stanchion mounting type, need to tell internal entry size
Contact your local sales representative for special requirements:foggy, guard...etc,.

Pendant Cone Ceiling Wall Stanchion



Tunnion



Stanchion mounting type



Safety Chain

Mounting type	Config	Part no
Ceiling with U bracket	3L-25L	CHR6196
		CCL1625591
Other mounting	3L-11L	CHR7005
	15L-25L	CCL1622490

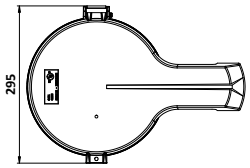
Trunnion mounting bracket(for ceiling mounting only)

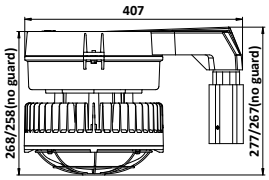
Part no	Config
CHLAS2182-06	Trunnion bracket for 3L-11L
CHLAS2183-06	Trunnion bracket for 15L
CHLAS2184-06	Trunnion bracket for 21L-25L

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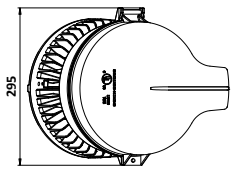
Mounting options and dimensions
3- 11L

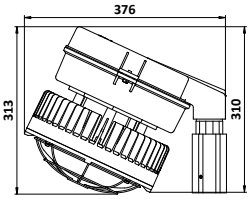
Stanchion – straight



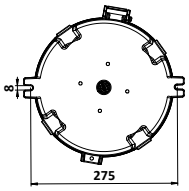


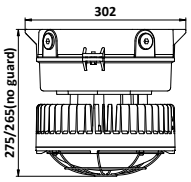
Stanchion – 25˚ angled



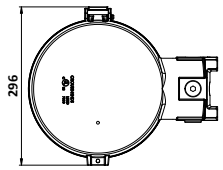


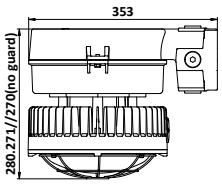
Ceiling



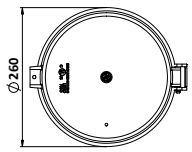


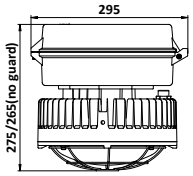
Wall



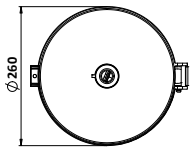


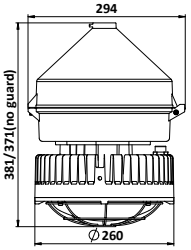
Pendant



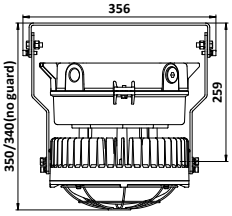


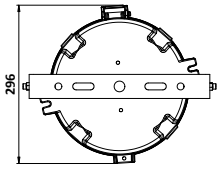
Cone pendant

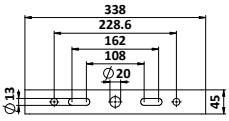




Trunnion

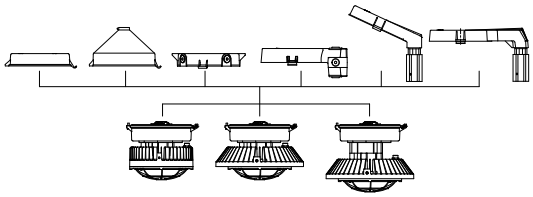






Mounting module series

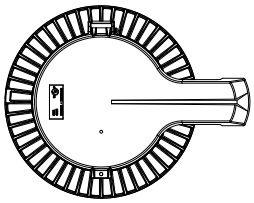
Pendant Cone Ceiling Wall Stanchion

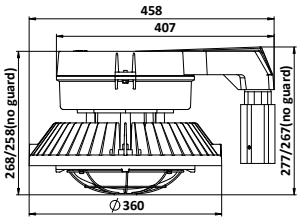


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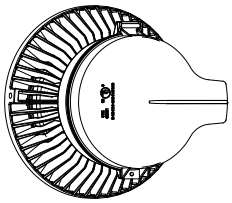
Mounting options and dimensions
15L

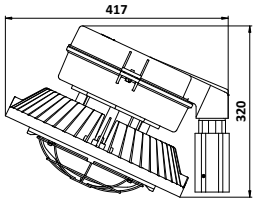
Stanchion – straight



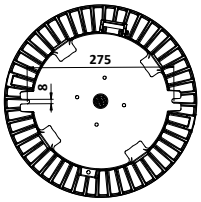


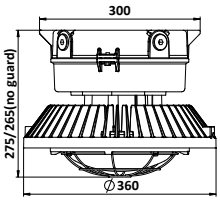
Stanchion – 25˚ angled



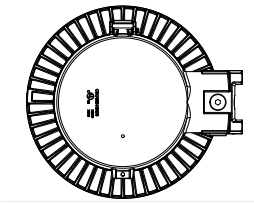


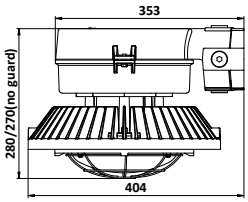
Ceiling



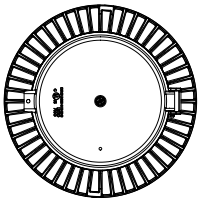


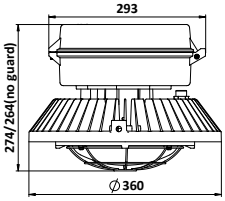
Wall



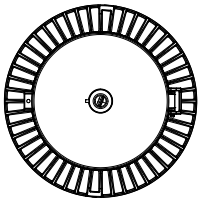


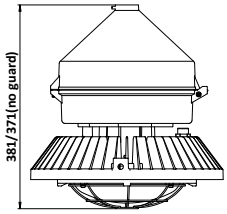
Pendant



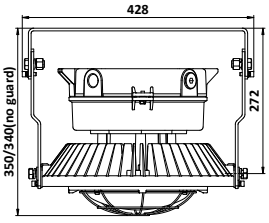


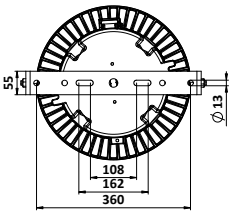
Cone pendant

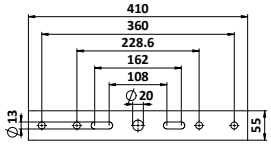




Trunnion

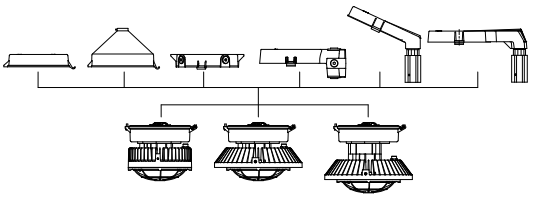






Mounting module series

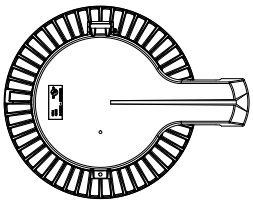
Pendant Cone Ceiling Wall Stanchion

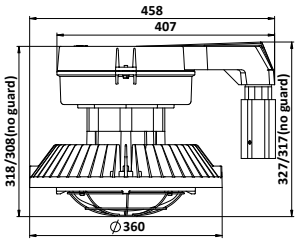


HPLN LED lighting for hazardous areas

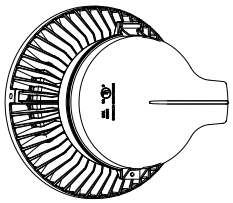
Mounting options and dimensions
21L/25L

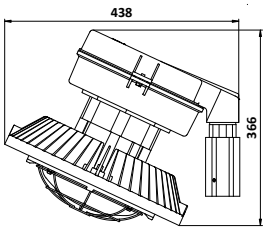
Stanchion – straight



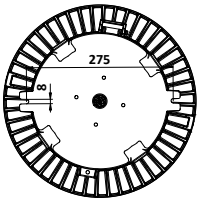


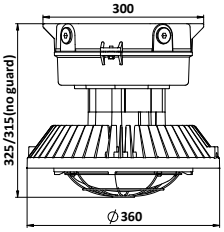
Stanchion – 25˚ angled



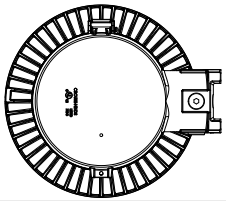


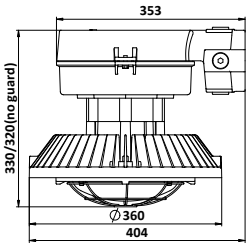
Ceiling



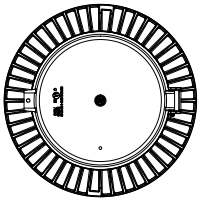


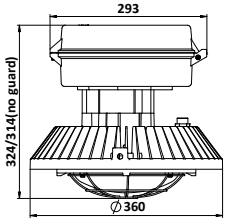
Wall



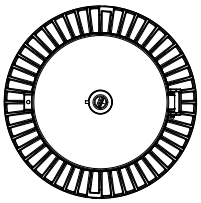


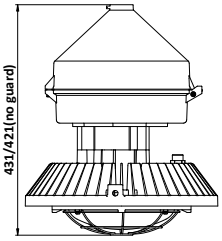
Pendant



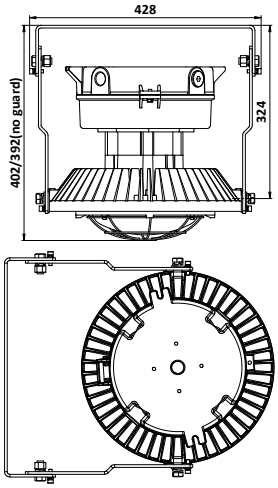


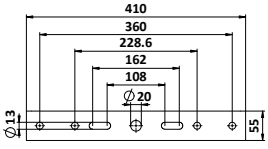
Cone pendant





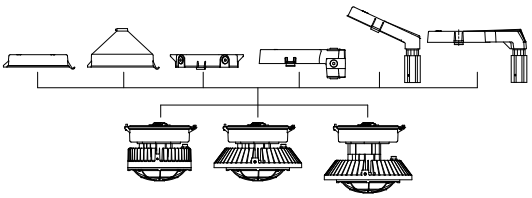
Trunnion





Mounting module series

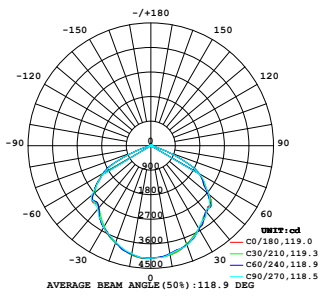
Pendant Cone Ceiling Wall Stanchion



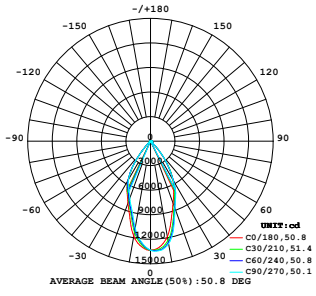
HPLN LED lighting for hazardous areas

Polar curves

3L-25L wide 120°



3L-25L medium 60°



3L-25L narrow 25°

