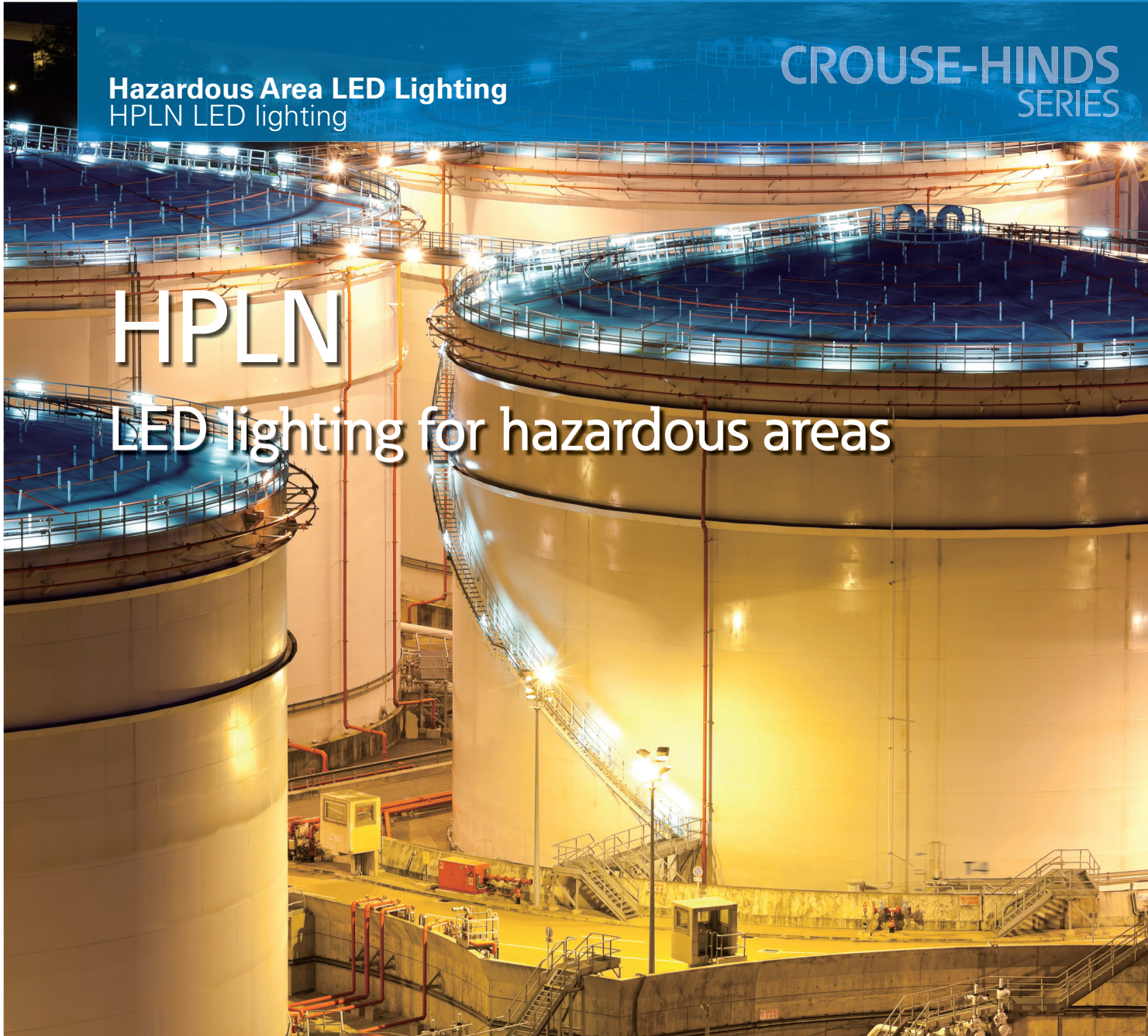


Hazardous Area LED Lighting
HPLN LED lighting

CROUSE-HINDS
SERIES

HPLN

LED lighting for hazardous areas



EATON

Powering Business Worldwide



Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh and hazardous environments, Eaton's Crouse-Hinds can deliver a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your 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

HPLN LED features

Designed for Zone 1 hazardous areas. HPLN LED luminaires are engineered to provide high quality, maintenance-free illumination in the most demanding hazardous rated environments. The HPLN LED is available in 8 models ranging from 3,000 to 25,000 lumens, providing a lighting solution for areas with mounting heights from 2.5 meters to 12 meters.

A

AC/DC universal input and built-in surge protection device (SPD)

- 4kV protection as standard, but option up to 10kV surge protection for offshore applications

B

Rugged design

- Copper-free aluminum housing, tempered and impact resistant glass globe
- Outstanding corrosion proof capability (C5M-IEC, UL1598A-UL) and anti vibration design
- Lightweight but durable Zone 1 IIC fixture

C

Robust heat sink

- Innovative heat sink facilitates air flow, ensuring long life in extreme environments

D

Mounting style

- IEC (trunnion indirect cable system) and NEC (direct conduit system) mounting style available
- Stanchion, pendant, ceiling, wall and trunnion mounting options for installation flexibility



E

Superior optical performance

- Cool white 5700K & warm white 3000K models available; consult factory for additional options (2700K, 4000K, 5000K)
- Narrow (25°) / medium (60°) / wide (120°) beam optics available to distribute the light where it is needed the most
- Efficiency up to 130 lm/W to save more energy

Frosted lens option

- Reduces dangerous and unwanted glare on critical applications

Why choose HPLN LED lighting?

Multiple versions of the HPLN LED are available from 3,000 to 25,000 lumens, providing a single solutions for a wide range of lighting applications.

3~11L

15L

21L/25L



Safe, reliable and efficient. HPLN LED luminaires are engineered to deliver high lumen output and maintenance-free long life in the toughest conditions.

HPLN 7L vs. 175 watt HID



70%
ENERGY
EFFICIENCY



65%
TOTAL COST
OF OWNERSHIP



100%
MAINTENANCE
REDUCTION

Assumptions: Calculations based on overall life of the LED system. Energy cost of €0.09 per kilowatt; 24 hour per day operation; labor rate of €75 each for 2 workers; average time for fixture maintenance of 2 hours.

Features & specifications

Rugged solutions for challenging environments

HPLN LED luminaires are used for general lighting in hazardous areas where flammable or explosive vapors or gases are present.

The HPLN features a compact, high-efficacy design with custom optics to ensure maximum light distribution and intensity. It is available with a variety of mounting options for installation flexibility.

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 $\pm 10\%$, nominal lumen data for 5700K, clear glass, wide beam angle

Application:

- Locations requiring continuous and consistent light levels in extreme ambient 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
- For areas with mounting heights up to 12 meters in manufacturing plants, heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, loading docks and tunnels etc.

HPLN LED benefits:

- Instant illumination and strike
- Cold temperature operation/no warm up requirement
- Multiple mounting options provide installation flexibility and ease
- Contains no mercury or other hazardous substance
- Shock-and vibration-resistant
- 5-year warranty



Certifications and compliances:

Marking accd.to IECEx:

- Ex db eb mb op is IIC T4 Gb
- Ex tb op is IICT95°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 IICT95°C Db

Certificate No.

- IECEx PRE 19.0058X
- Presafe 19 ATEX 09286X

Permissible ambient temperature

- -40°C up to +55°C

Degree of protection accd. to EN60529

- IP66

LED system:

- Cool white 5700K (CRI70) & warm white 3000K (CRI80) as standard options. Consult factory for 2700K, 4000K, 5000K
- Narrow (25°) / medium (60°) / wide (120°) beam optics available

Standard materials:

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

Features & specifications

Electrical rating:

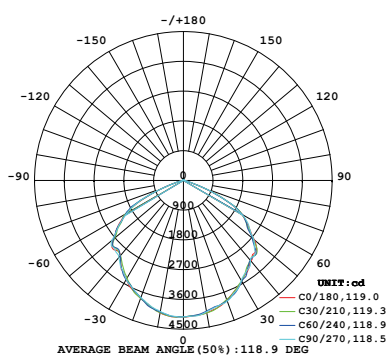
	3L	5L	7L	9L	11L	15L	21L	25L
Voltage range VAC	100-240	100-240	100-240	100-240	100-240	100-240	100-240	100-240
Input power (watts)	26	40	50	70	85	110	163	190
Lumens	3483	5323	6684	9574	11466	14783	21128	24229
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Inrush current	12A for 1ms	12A for 1ms	12A for 1ms	12.5A for 1ms	12.5A for 1ms	24A for 1ms	25A for 1ms	25A for 1ms
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	127-250	127-250	127-250	127-250	127-250	127-250	127-250	127-250
THD	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%

Weight:

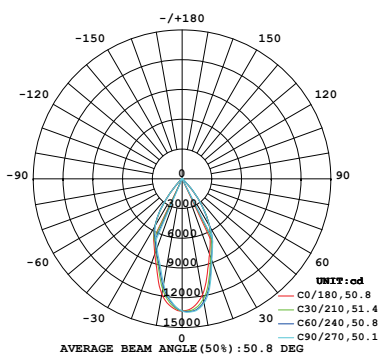
Model	Appr. kg
3L-11L	11kg
15L	14kg
21/25L	15kg

Polar Curves

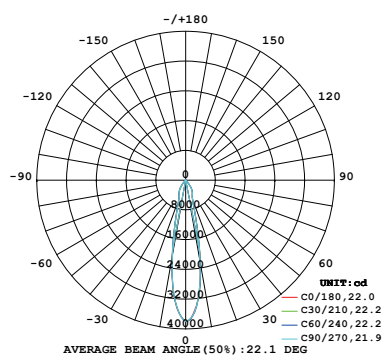
3L-25L wide 120°



3L-25L medium 60°



3L-25L narrow 25°



Ordering information

Part number example

HPLN-9L-C3-20C-W-F-G

HPLN LED fixture, 9574 lumens, 5700K (CRI 70), 20mm ceiling mount, 120° wide light beam, clear lens, with guard, 4kV surge protection

HPLN

-9L*

Total lumens

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

-C3

Color Temp.

W2	3000K**
C3	5700K**

-20C

Beam angle

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

-W

-F

-G

Guard

Blank	without guard
G	with guard

Surge

Blank	4kV
S	10kV

Mounting type

Blank	no cover
25J***	1-½" Stanchion, 25° Angled
25P***	1-½" Stanchion, Straight
20A	20mm Pendant
25A	25mm Pendant
20C	20mm Ceiling
25C	25mm Ceiling
20TW	20mm Wall
25TW	25mm Wall

Glass

Blank	Clear Glass
F	Foggy Glass

* Tolerance ±10%, nominal lumen data for 5700K, clear glass, wide beam angle

** Please contact Crouse-Hinds sales representative for additional color temperatures

*** For 1-½" / M20 stanchion mounts, change "25" to "20" (ex. 20J, 20P)

Typical ordering codes for HPLN LED luminaire without mounting accessory:

	Lumen output	Color temp	Beam pattern	Ordering Code
HPLN	-3L (3483)	-C3 (5700K)	-W (120°)	CCL1715738
HPLN	-5L (5323)	-C3 (5700K)	-W (120°)	CCL1715866
HPLN	-7L (6684)	-C3 (5700K)	-W (120°)	CCL1715994
HPLN	-9L (9574)	-C3 (5700K)	-W (120°)	CCL1716122
HPLN	-11L (11466)	-C3 (5700K)	-W (120°)	CCL1716250
HPLN	-15L (14783)	-C3 (5700K)	-W (120°)	CCL1716378
HPLN	-21L (21128)	-C3 (5700K)	-W (120°)	CCL1716506
HPLN	-25L (24229)	-C3 (5700K)	-W (120°)	CCL1716634

Accessories (ordered separately)

Mounting accessories	Part no.	Description
Ceiling cover	CHLAS2084-13	20C = 20mm ceiling
	CHLAS2084-14	25C = 25mm ceiling
Wall cover	CHLAS1230-13	20TW = 20mm wall
	CHLAS1230-14	25TW = 25mm wall
Pendant	CHLAS1231-13	20A = 20mm pendant
	CHLAS1231-14	25A = 25mm pendant
Stanchion-J 25°	CHLAS1234-09	1-½" / M20 stanchion
	CHLAS1234-10	1-½" / M25 stanchion
Stanchion-P 90°	CHLAS1370-09	1-½" / M20 stanchion
	CHLAS1370-10	1-½" / M25 stanchion

Safety cable

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

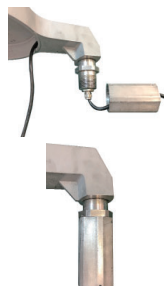
Trunnion mounting bracket (for ceiling mounting only)

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

Trunnion for floodlight applications



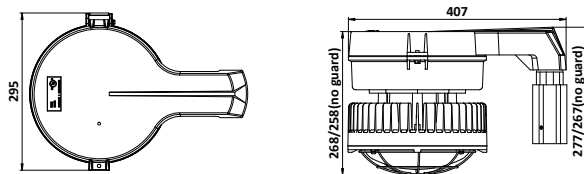
Stanchion mounting type



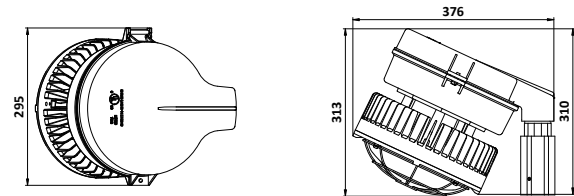
Mounting options and dimensions

3- 11L

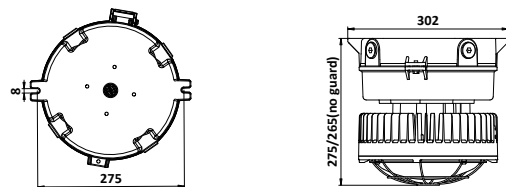
Stanchion – straight



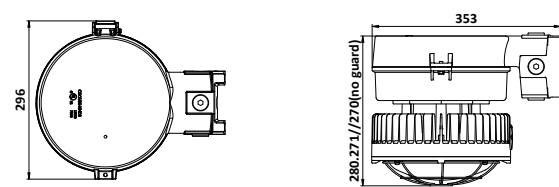
Stanchion – 25° angled



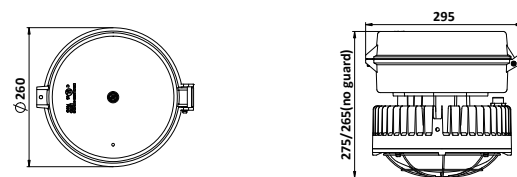
Ceiling



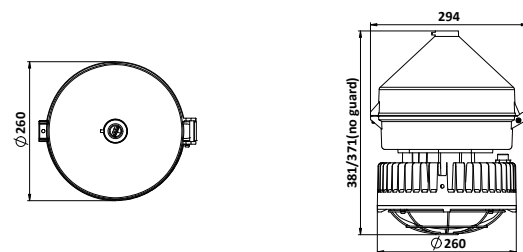
Wall



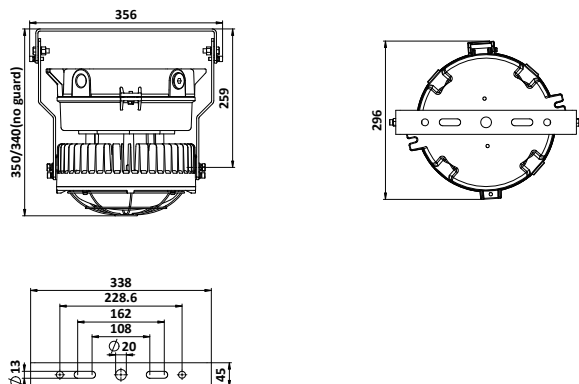
Pendant



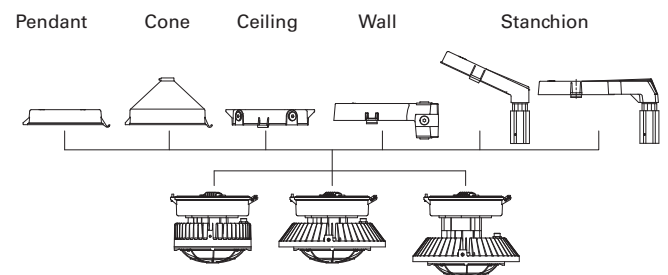
Cone pendant



Trunnion

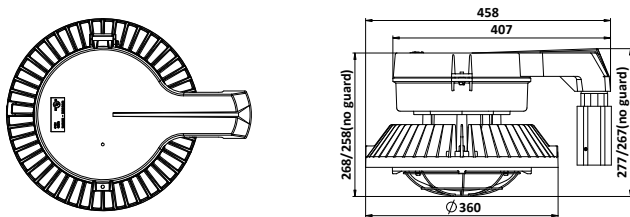


Mounting module

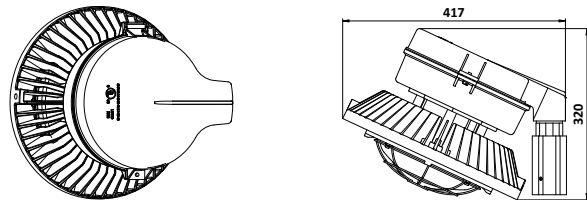


Mounting options and dimensions 15L

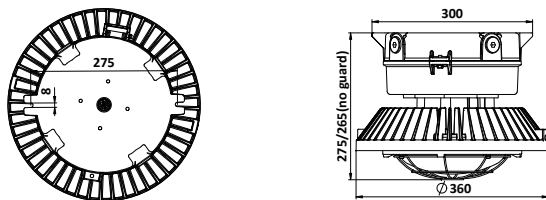
Stanchion – straight



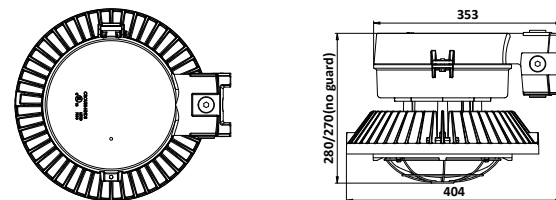
Stanchion – 25° angled



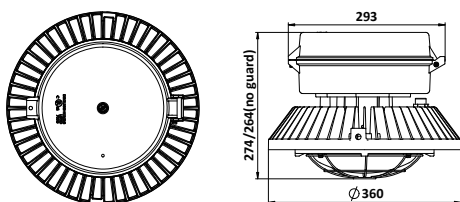
Ceiling



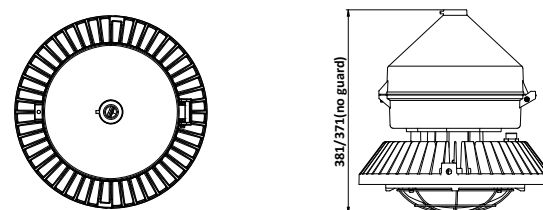
Wall



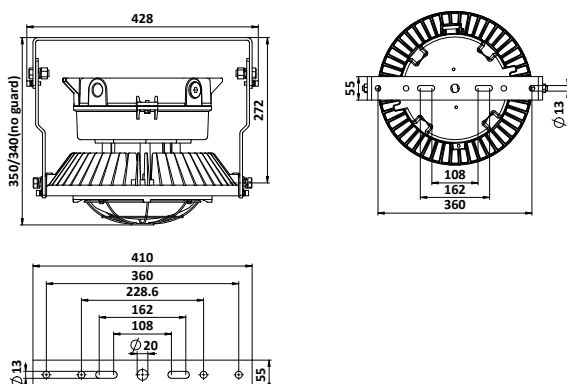
Pendant



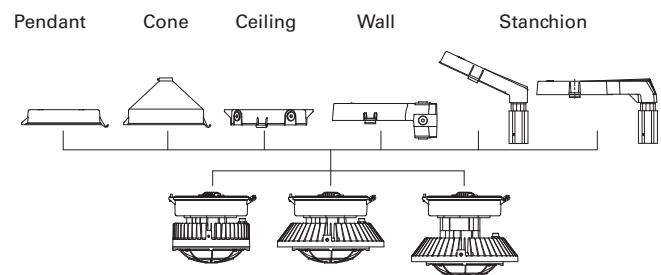
Cone pendant



Trunnion



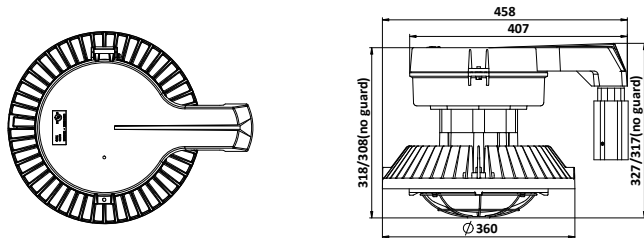
Mounting modules



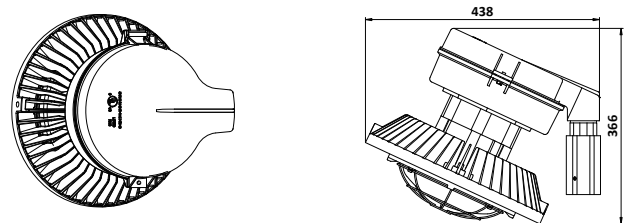
Mounting options and dimensions

21L/25L

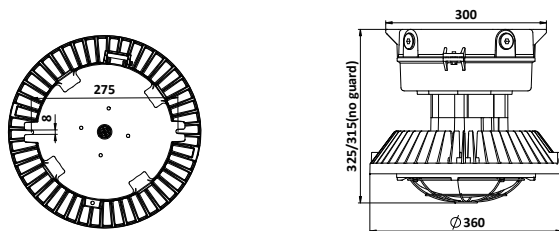
Stanchion – straight



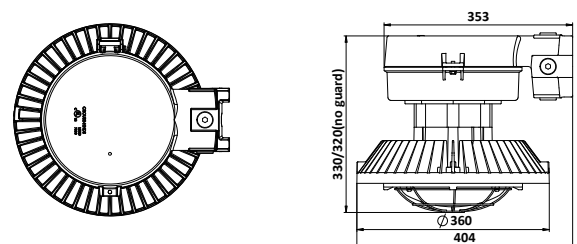
Stanchion – 25° angled



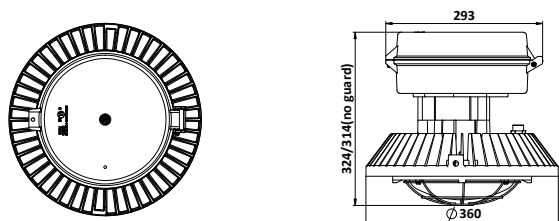
Ceiling



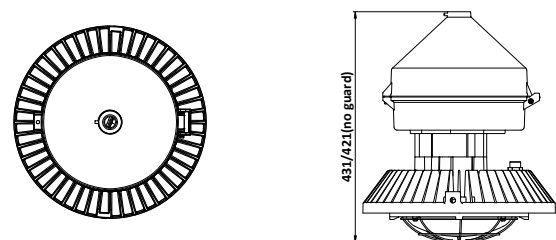
Wall



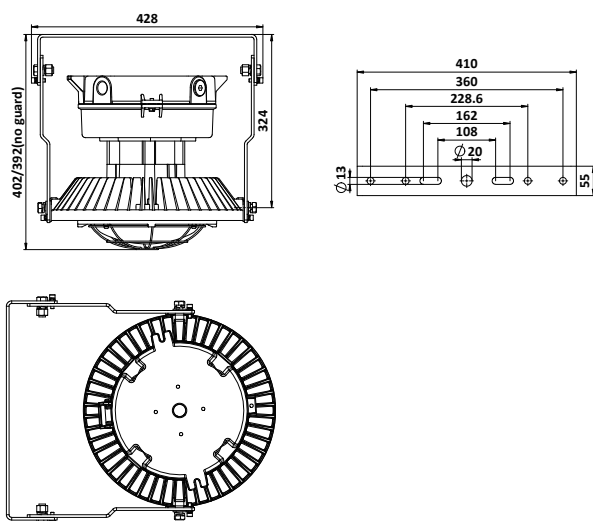
Pendant



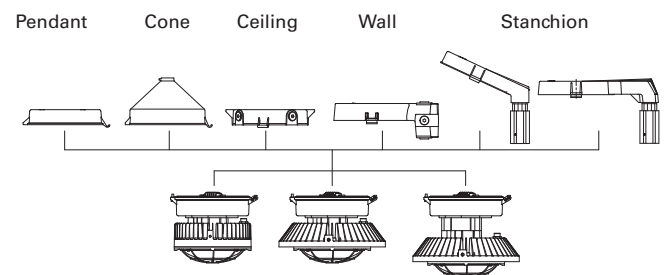
Cone pendant



Trunnion



Mounting modules



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