

HPLN LED lighting-hazardous area

Product introduction

The Zone 1 HPLN product series LED luminaires using high-quality international brand LED chips, have extremely long lifespan. Multiple version of the HPL LED are available, providing ideal solutions for a wide range of applications.

HPLN provides the same durability and reliability of a traditional HID fixture, coupled with the low cost of ownership and energy efficiency of Crouse-Hinds LED technology. High-performance LEDs and a solid-state electronic driver provide light where you need it, at a fraction of the operating costs of HID lighting technologies.

Suitable for Zone 1 & Zone 2 Ex-gas and Zone 21/22 Ex-dust hazardous area, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyard, electric power, loading docks, wastewater treatment, paper mill.

Product features

- High efficient & Energy saving
 - Up to 133Lm/W and 78% energy-saving comparing to HID luminaire

Model	Nominal* lumens	Wattage	Equivalent HID luminaire
HPLN-3L	Approx.3000	Approx.25	70W-100W
HPLN-5L	Approx.5000	Approx.38	100W-150W
HPLN-7L	Approx.7000	Approx.50	150W-175W
HPLN-9L	Approx.9000	Approx.66	175W-250W
HPLN-11L	Approx.11000	Approx.78	250W-450W
HPLN-15L	Approx.15000	Approx.110	400W
HPLN-21L	Approx.21000	Approx.164	600W
HPLN-25L	Approx.25000	Approx.190	600W-1000W

*tolerance±10%

- Industry-best safety reliability
 - Rugged & light weight
 - Copper free aluminum housing, tempered and impact resistant glass globe, heat & corrosion proof
 - IP66 protection
 - C5M coating
 - Suitable for Zone 1 & Zone 2, Zone 21 & Zone 22 both gas and dust Ex - hazardous area
- Perfect temperature and optical performance for wide application
 - Best T- rating: T4
 - Permissible temp. range:
ATEX/IECEX: -40°C~+55 °C,
CUTR: -55°C~+55°C(Pending)



- Cold white 5700K & warm white 3000K as standard optional: 2700K, 4000K, 5000K
- Narrow(25°) / medium(60°) / wide(120°) beam optics available
- 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
- 5-year warranty
- Fixture life and years of maintenance-free operation

Ambient temperature	No. of years at 24 hours usage	No. of years at 12 hours usage
25°C	10	20
30°C	10	20
35°C	10	20
40°C	10	20
45°C	10	20
50°C	7	14
55°C	5	10

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Technical data

Marking accd.to 94/9/EC	II 2 G Ex db eb mb op is IIC T4 Gb II 2 D Ex tb op is IIIC T80°C Db
Marking accd.to IECEx	Ex db e mb IIC T4 Gb Ex tb IIIC T80°C Db IP66
Marking accd.to GB	Ex d e mb IIC T4 Gb Ex tD A21 IP66 T80°C
Power consumption	Refer to below table
Rated voltage/frequency	100~240 VAC, 50/60HZ, 127V~250VDC
T. Ambient	-40°C(-55C for CUTR) up to + 55°C
Power factor	≥ 0.95
THD	<0.15
Surge protection	Standard(L-N:4KV/L-G:4KV), (6-10kv) optional
Material	Copper Free Aluminum,
Finish	ASTM200hours & C5M coating.
CCT	standard: 5700K (cool white), 3000K (warm white)
CRI	>70
Beam	Wide(120°), Medium(60°), Narrow(25°)
Weight	<12Kg
Mounting options	Stanchion, Pendant, Ceiling, Wall, Trunnion

Ordering logic

HPLN	-9L *	-W1	-2A	-W	-F	-G	-S812	-S	-BV
Series No.	Total lm	Color Temp.	Mounting type	Beam angle	Glass	Guard	Suffixes	SPD	Breather valve
HPLN	-3L=3000 -5L=5000 -7L=7000 -9L=9000 -11L=11000 -15L=15000 -21L=21000 -25L=25000	-W1=2700K -W2=3000K* -C1=4000K -C2=5000K -C3=5700K*	Blank=no cover J= 1-½" Stanchion, 25°Angled P = 1-½" Stanchion, Straight 2A = ¾" Pendant 3A = 1" Pendant 20A = 20mm Pendant 3C = 1" Ceiling 20C = 20mm Ceiling 25C = 25mm Ceiling 2HA = ¾" Flexible Pendant 25A = 25mm Pendant 2B = ¾" Cone Pendant 3B = 1" Cone Pendant 2C = ¾" Ceiling 2TW = ¾" Wall 3TW = 1" Wall 20TW = 20mm Wall 25TW = 25mm Wall	Default=Without lens -W=Wide(120°) -M=Medium(60°) -N=Narrow(25°)	Default=Clear Glass -F=Foggy Glass	Default=without guard -G=with guard	S812=Trunnion Mount Kit with Pin S831 = Safety Cable S890 = Quick Clip	Default=Standard version S = High version	Default=without breather valve BV = Breather valve

*lumen output was based on 5700K

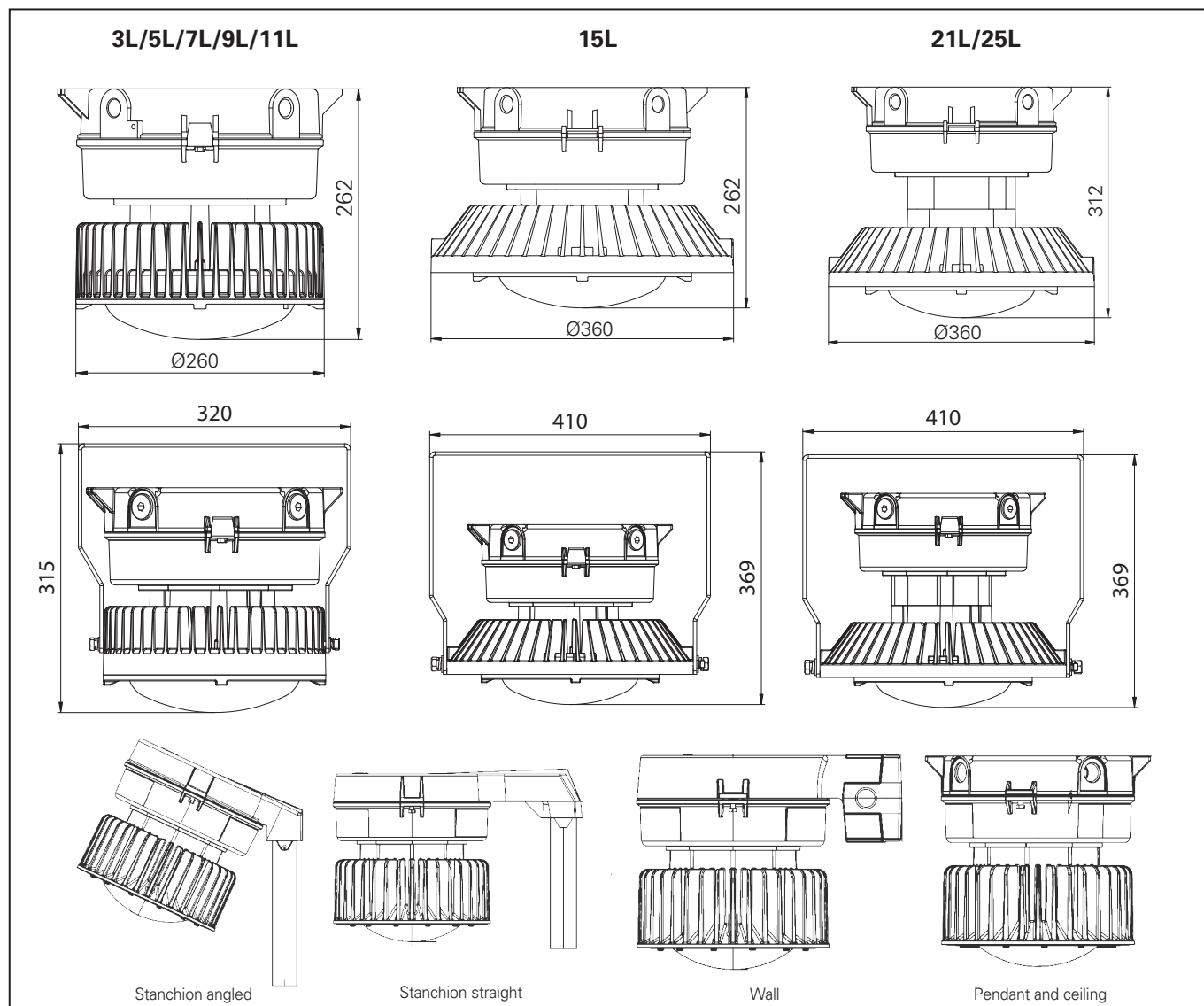
*5700K and 3000K are standard version, if other option, pls contact Crouse-Hinds sales for details.

Ordering information

Product type	T.amb	Lumen output	Colour temp.	System watt.	T code
HPLN-3L-C3-2A	-40°C~+55°C	Approx.3000	5700K	Approx.25	T4
HPLN-5L-C3-2A		Approx.5000		Approx.38	
HPLN-7L-C3-2A		Approx.7000		Approx.50	
HPLN-9L-C3-2A		Approx.9000		Approx.66	
HPLN-11L-C3-2A		Approx.11000		Approx.78	
HPLN-15L-C3-2A		Approx.15000		Approx.110	
HPLN-21L-C3-2A		Approx.21000		Approx.164	
HPLN-25L-C3-2A		Approx.25000		Approx.190	

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Dimension and Mounting



Polar curve

