HLSS-V-T

Hazardous Location LED Luminaire, S Series, Selectable Power and CCT

Hazardous Location LED Luminaire



S1



S2

The S Series LED luminaire is designed for installations in hazardous areas where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient temperature can be expected. Flame-proof and increased-safe functions enhance safety and reliability, which makes this product an ideal lighting solution for hazardous locations. Power and CCT are selectable on the luminaire. The optional backup driver provides a minimum of 90 minutes of operation after AC power failure (contact Paraflex for options).

Features

- Combined flame-proof and increased-safe functions, enhanced safety and reliability
- Compact and rugged structure, easy installation
- Various installation ways for different applications
- Great impact resistance with IK08 / IK10 certification
- Copper-free aluminum housing, great corrosion resistance and cooling performance
- Tempered glass for high heat resistance
- Selectable power and CCT (DIP switch)
- Flat glass and convex glass diffusers are optional
- Optional backup driver

Application

- Power Plants
- Heavy industrial storage facilities
- Paper mills
- Wastewater treatment plants
- Loading docks / platforms
- Offshore environments
- Chemical processing facilities
- Petrochemical processing facilities
- Metallurgical industry
- Coal mine
- Food and alcohol industry

Compliance

- UL 844 Hazardous Locations
- Class I Division 1, Groups B, C, D
- Class I Division 2, Groups A, B, C, D
- Class II Division 1, Groups E, F, G
- Class II Division 2, Groups F, G
- Class III
- UL 1598 Wet Locations
- UL 1598A Marine Outside Type
- ABS
- Vibration 3G
- NEMA 4X
- IP66
- IK10

Electrical

Model	S1	S2
Selectable power	60W / 80W / 100W	120W / 150W / 200W
Power model, 120-277VAC	SS-150VA-56BHL	SS-240VA-56BHL
Power model, 277-480VAC	VA-150V-056B	VA-240V-056B
Input voltage	120-277VAC / 277-480VAC (see ordering guide)	
Frequency / power factor	50/60Hz / > 0.95 @120V	
Optional emergency	Minimum 90 minutes (contact Paraflex for options)	
Service life / salt spray	Up to 50,000 hours / 500 hours	
Dimming	1-10V dimming wiring included (separate 1-10V DC dimming circuit required)	

Optical

Model	S1	S2
Selectable power	60W / 80W / 100W	120W / 150W / 200W
Lumens per watt	145lm/W	155lm/W
Lumen output	8,700-14,500lm	18,600-31,000lm
Selectable CCT / CRI	4000K / 5000K / 6500K / > 70	
Beam angle	120°	
LED	Long-life, high-efficacy, discrete surface-mount 2835 LEDs; 100,000-hour lifespan based on IES LM-80 and TM-21	

Mechanical

Housing material	Die-cast aluminum
Diffuser	Standard: clear flat lens; optional: clear convex / frosted convex / frosted flat glass
Gasket / latches	Silicone rubber / Stainless steel hardware
Protection	IP66 / IK10
Mounting	Ceiling / U-bracket (included); pole mount 25°, pendant / jib mount, pole + junction box mount (purchased separately)
Cable entries / warranty	3/4" NPT / 5-year limited warranty for fixture

HLSS-V-T

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Ambient Temperature

S1, 120-277VAC	T6: -40°C to +50°C (Class I Div 1); T5: -40°C to +55°C (Class I Div 2); T5: -40°C to +40°C (Class II, Class III)
S1, 277-480VAC	T6: -40°C to +50°C (Class I Div 1); T5: -40°C to +50°C (Class I Div 2); T5: -40°C to +40°C (Class II, Class III)
S2, 120-480VAC	T6: -40°C to +50°C (Class I Div 1); T5: -40°C to +50°C (Class I Div 2); T5: -40°C to +40°C (Class II, Class III)

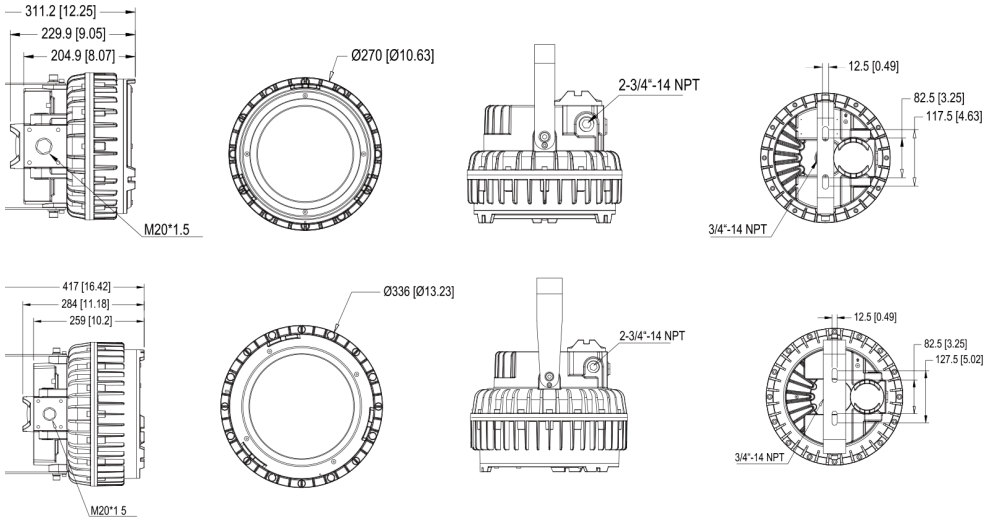
Power and CCT Selection (DIP switches)

Power (red dial)	Dial 1	Dial 2	S1	S2
Maximum output	OFF	OFF	100W	200W
Medium output (70-90%)	ON	OFF	80W	150W
Minimum output (50-70%)	OFF	ON	60W	120W

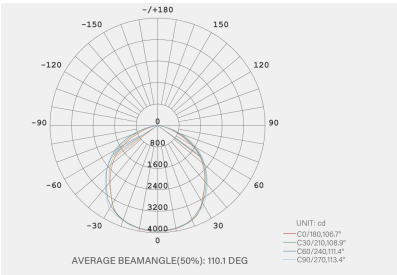
CCT (blue dial)	Dial 1	Dial 2	CCT
Cool white	OFF	OFF	6500K
Neutral white	ON	OFF	5000K
Warm white	ON	ON	4000K

Factory default settings and power levels can be customized according to order requirements.

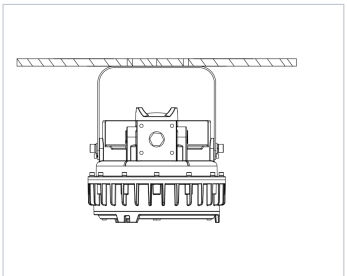
Dimensions, mm [inch]



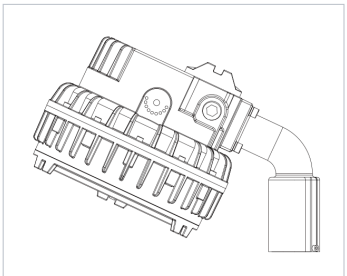
Photometric



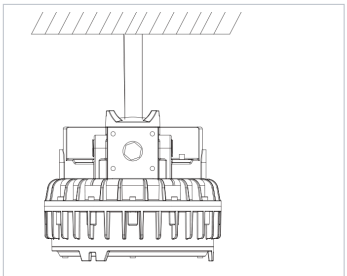
Mounting Methods



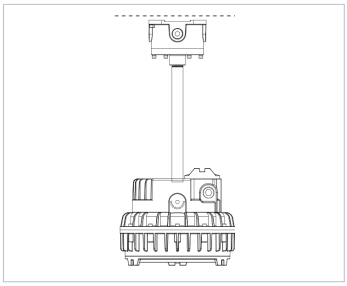
1. Ceiling / U-bracket



2. Pole (25°)



3. Pendant / jib



4. Pole + junction box

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Accessories



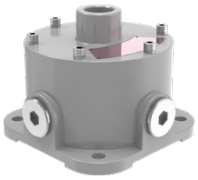
U-bracket (included)



25° pole mount bracket (purchased separately)



Straight pipe (purchased separately)



Junction box (purchased separately)

Ordering Guide

Example: HLSS-V-T-100W-S1-D-50-D120-J-H-A15

#	Field	Options
1	**Model**	HLSS-V-T (S Series hazardous location luminaire, selectable power and CCT)
2	**Input wattage**	S1: 60 / 80 / 100W S2: 120 / 150 / 200W (selectable)
3	**Luminaire size**	S1 = S1 heatsink enclosure S2 = S2 heatsink enclosure
4	**Dimming**	D = Dimmable Blank = No dimming function
5	**CCT**	40 = 4000K 50 = 5000K 65 = 6500K (selectable)
6	**Beam angle**	D120 = 120°
7	**Installation**	P25 = Pole mount (25°) J = Jib mount Blank = U-bracket mount
8	**Input voltage**	H = 200-480V Blank = 120-277V M = 120-347V
9	**LED driver**	V15 = SS-150VA-56BHL V24 = SS-240VA-56BHL A15 = VA-150V-056B A24 = VA-240V-056B
10	**Backup driver**	E = Backup driver provided (S2, 20 / 30 / 40 / 50 / 60 / 80 / 100W only; contact Paraflex) Blank = None

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