



HLCS-V

Hazardous Location LED Luminaire, C2 / C / C3, 20-280 W, IP66



Hazardous Location LED Luminaire



C2 20-80 W



C 100-150 W



C3 200-280 W

The HLCS-V LED luminaire is the ideal choice for marine and hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

Features

- 0-10V dimming
- High luminous efficacy - Up to 140 lumens per watt
- Battery backup function available
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Copper-free aluminum housing, great corrosion resistance and cooling performance

Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

Electrical

Model	C2	C	C3
Rated power (fixed, select one)	20W / 40W / 60W / 80W	100W / 150W	200W / 250W / 280W
Input voltage	100-277 / 200-480VAC		
Frequency / power factor	50/60Hz / > 0.95		
Emergency function	None (optional)	None (optional)	3 hours (optional)
Ambient temperature	T4: -40°C to 60°C (-40°F to 140°F)		

Optical

Model	C2	C	C3
Lumen output	2800lm / 5600lm / 8400lm / 11200lm	14000lm / 21000lm	28000lm / 35000lm / 39200lm
Lumens per watt	140lm/W		
CCT (select one)	2700K-7000K, in 100K steps		
CRI	> 70		
Beam angle (select one)	40°, 60°, 90°, 120°		
Dimming	0-10V dimming		

Mechanical

Housing / diffuser	Copper-free aluminum / Tempered glass
Hardware	Stainless steel
Protection	IP66 / IK08 (glass cover) / IK10 (with wire guard) / 1000 hours salt spray
Mounting	Ceiling, Wall, Hook, Pole (all sizes); Trunnion (C2 only)
Cable entries	Side: 3/4" NPT (standard); M20, M25, 1/2" NPT (optional) Top: 3/4" NPT (standard); M25 (optional)
Warranty	5-year standard warranty LED lumen maintenance: L70 > 150,000 operation hours @ 55°C

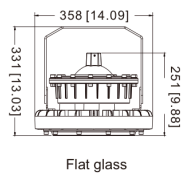


HLCS-V

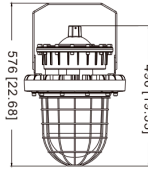
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Dimensions, mm [in]

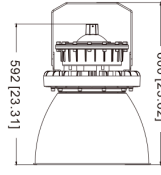
C2



Flat glass

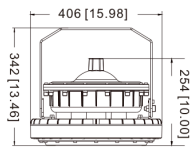


with drop lens and wire guard

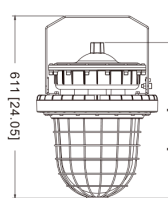


with lamp shade

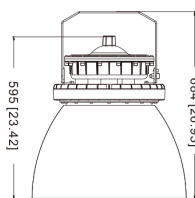
C



Flat glass

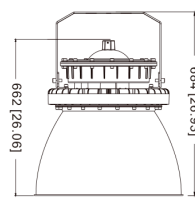
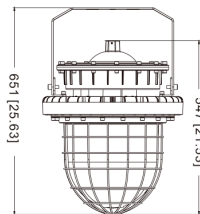
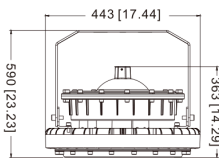


with drop lens and wire guard



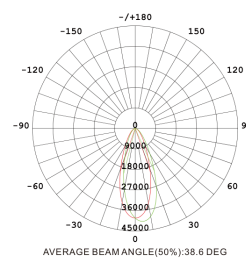
with lamp shade

C3

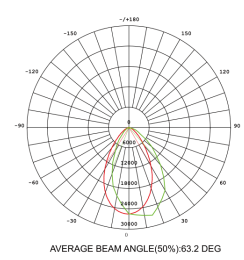


Photometric

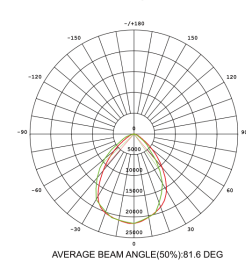
40 Degree



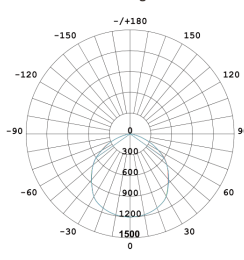
60 Degree



90 Degree



120 Degree



Compliance

- UL 844 Hazardous Locations
- Class I Division 1, Group C, D
- Class I Division 2, Group A, B, C, D
- Class II Division 1, Group E, F, G
- Class II Division 2, Group F, G
- Class III
- Class I, Zone 1, Group IIB
- Class II, Zone 21, Group IIIC
- UL 1598 Wet Locations
- UL 1598A Marine Outside Type
- UL 924 Emergency Lighting
- CSA C22.2#137:2018 Ed.2
- CSA C22.2#250.0:2021 Ed.5
- ETL (ATM for Report 105342415DAL-001/003)
- ABS
- DLC*
- IP66
- IK08 (glass cover)
- IK10 (with wire guard)
- 1000 hours salt spray

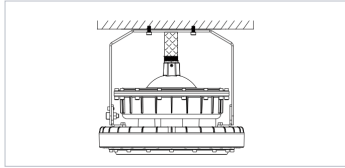
* Not all product variations listed on this spec sheet are DLC qualified. Visit www.designlights.org/search to confirm qualification.



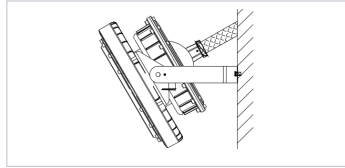
HLCS-V

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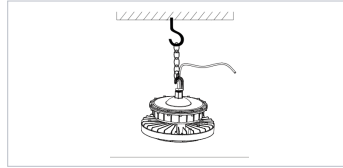
Mounting Methods



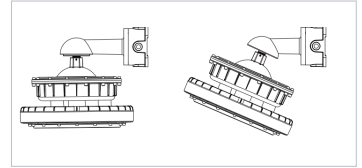
1. Ceiling



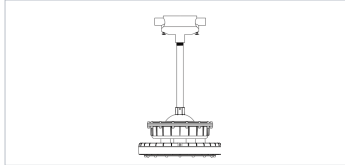
2. Wall



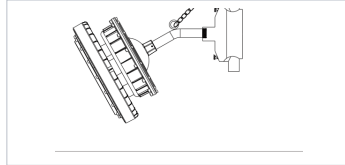
3. Hook pendant



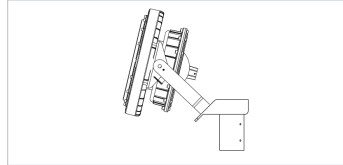
4. Wall, junction box (90 / 25 deg)



5. Pole, vertical



6. Pole, non-vertical



7. Trunnion (C2 only)

Accessories



Bracket



Metal conduit



Hook



Pendant chain



Slip fitter kit



Straight pipe



Bent pipe



Junction box



90 deg stanchion arm, junction box



25 deg stanchion arm, junction box

Cable Entries

Top	3/4" NPT (standard); M25 (optional)
Side (wire outlet)	3/4" NPT (standard); M20, M25, 1/2" NPT (optional)

Compatible with NPT1 thread with an adapter. Cable entries other than 3/4" NPT are achieved with an adapter; indicate the entry required when ordering.

Ordering Guide

Model HLCS-V	Input watts	Shell size	Dim- ming	CCT	Beam angle	Long glass cover	Optional
1	2	3	4	5	6	7	8

Example: HLCS-V-100W-C-D-40-D60-[7]-[8] (100 W, size C, dimmable, 4000K, 60 degree beam; [n] = position n, left blank)

#	Field	Options
1	Model	HLCS-V (hazardous location luminaire, round, C Series)
2	Input wattage	C2: 20/40/60/80W C: 100/150W C3: 200/250/280W
3	Shell shape series	C2 / C / C3
4	Dimming	D = Dimmable N = Non-dimmable
5	CCT	27 to 70 = 2700K to 7000K, each step 100K (for example 40 = 4000K)
6	Beam angle	D40 = 40 degrees D60 = 60 degrees D90 = 90 degrees D120 = 120 degrees
7	Long glass cover	A = Long glass cover (optional)
8	Optional	-1 = NA (optional)

Disclaimer:

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