

## Series Spec Sheet

# CDHB1

## HAZARDOUS LOCATION HIGH BAYS

Class I, Division 1, Groups B, C, D

Non recessed marine luminaires, outside type (salt water)

The CDHB1 LED high bays are specifically engineered for use in hazardous environments containing flammable vapors or gases. This series is designed for locations prone to vibrations, as well as NEMA 4X environments characterized by exposure to wind, water, snow, or high ambient temperatures.

### FEATURES AND SPECIFICATIONS

#### • Construction

##### Physical Characteristics

- Rugged and resilient housing made of an aluminum-alloy material available in a grey housing finish.
- All exposed fasteners are quality stainless steel.

##### Temperature ratings

Based on the surface temperature of the fixture:

- Class I, Division 1 is rated:
  - T5 (will not exceed 100 °C) for 60 W and 100 W models
  - T6 (will not exceed 85 °C) for 30 W and 150 W models

##### Ambient operating temperature

-40 °C to +55 °C

##### Ambient operating humidity

10 % to 90 % RH

##### Mounting types

Standard mounting type is pendant mount and this series offers a yoke and a junction box mount in accessories.

##### Lens/Optics

Available with several lens options: a clear glass lens that is resistant to thermal shock and impact, with beam angles of 80 degree and 110 degree.

For 30 W and 60 W models, there is also the options of a drop glass lens or a stripped spherical lens with a 120 degree beam angle.

#### • Electrical

- Available in 3 000 K, 4 000 K, 5 000 K, 5 700 K, 6 500 K color temperatures
- 80+ CRI
- Electrical ratings: 120-277 V 50/60 Hz and 277- 480 V 50/60 Hz for 150 W lumen package.
- Estimated life L70 >50 000
- 0-10 V dimming standard
- Built-in DM 6 kV (line-line) and a CM 10 kV (line-earth)
- Power factor of ≥0.9
- THD of ≤20 %

#### • Suitable for zone ratings:

- Zone 1, Group IIB

#### • Compliances

- Meets requirements of ICES-005 issue 5 class A for use in commercial applications
- IP66
- IK09
- NEMA 4X
- UL 844
- UL 1598
- UL 8750
- CSA C22.2 No.137.0
- CSA C22.2 No.250.0
- CSA C22.2 No.250.13
- 3G vibration resistant in compliance with ANSI/IEEE C136.31 standard for luminaire vibration

### OVERVIEW

Light source	LED
Watts (W)	30, 60, 100, 150
Lumen output (lm)	3 992-23 486
Efficacy (lm/W)	128-155
Color temperature (K)	3 000, 4 000, 5 000 5 700, 6 500
CRI	>80



**ORDERING GUIDE**

CDHB1						GY
Series	Lumen Package (W)	Voltage (V)	Color temp. (K)	Lens type	Beam angle (°)	Casting color
CDHB1	S1 - 30 S2 - 60 S3 - 100	W - 120-277	30 - 3 000 40 - 4 000 50 - 5 000	G - Clear flat glass	MW2 - 80 W3 - 110	GY - Grey
	S4 - 150	W - 120-277 K - 277-480	57 - 5 700 65 - 6 500	D <sup>1</sup> - Drop glass S <sup>1</sup> - Clear stripped spherical glass	W4 - 120	

<sup>1</sup> Drop glass lens and stripped spherical lens are only available for 30 W and 60 W models.

**LUMEN SPECIFICATION TABLE**

Watts (W)	Lens type	Beam angle (°)	Volts (V)	Fixture current (A)	4 000 K		Life L70 (hrs)	Power factor	THD (%)
					Lumen output (lm)	Efficacy (lm/W)			
30	Flat glass	80	120-277	0.35	4 842	155	>50 000	≥0.9	≤20
60			120-277	0.65	9 343	150			
100			120-277	1.1	14 166	141			
150			120-277	1.65	21 667	142			
150			277-480	1.65	21 379	141			
30	Flat glass	110	120-277	0.35	4 864	157			
60			120-277	0.65	9 356	153			
100			120-277	1.1	15 670	153			
150			120-277	1.65	22 533	152			
150			277-480	1.65	23 486	155			
30	Drop glass	120	120-277	0.35	3 992	129			
60			120-277	0.65	7 957	128			
30	Stripped spherical glass		120-277	0.35	4 111	132			
60			120-277	0.65	8 045	131			

**ACCESSORIES (order separately)**

Order code	Description
70374	Yoke mount for 30 W and 60 W models
70375	Yoke mount for 100 W and 150 W models
70376	Wireguard for flat lens 30 W and 60 W models
70377	Wireguard for flat lens 100 W and 150 W models
70378	Wireguard for spherical lens 30 W and 60 W models
70379	Wireguard for drop lens 30 W and 60 W models
70302 <sup>1</sup>	Junction box

<sup>1</sup> Pipe is not supplied.

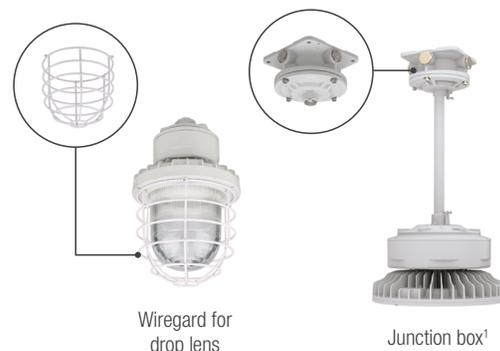


**COMPATIBLE DIMMERS<sup>1</sup>**

Brand	Model
Leviton	DS710
Lutron	NTSTV-DV, NFTV, DVSTV

Dimming range: 0%-100%

<sup>1</sup> This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. Stanpro recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

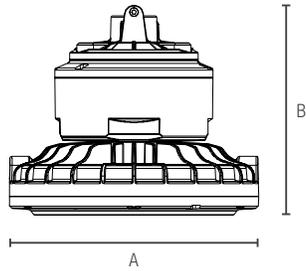


Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

**DIMENSIONS AND WEIGHTS**

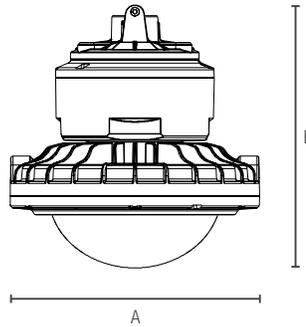
**PENDANT MOUNT**

**FLAT LENS**



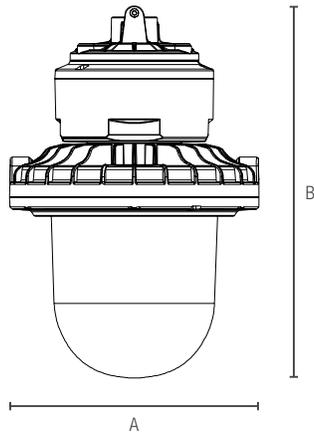
	30 W	60 W	100 W	150 W
A in. (cm)	7 5/8" (19.50 cm)	12 3/4" (32.50 cm)		
B in. (cm)	6 1/2" (16.50 cm)	9" (23.00 cm)		
Net weight (lbs)	8.66	24.36		

**STRIPPED SPHERICAL LENS**



	30 W	60 W
A in. (cm)	7 5/8" (19.50 cm)	
B in. (cm)	8 1/8" (20.60 cm)	
Net weight (lbs)	9.15	

**DROP LENS**



	30 W	60 W
A in. (cm)	7 5/8" (19.50 cm)	
B in. (cm)	11 1/2" (29.20 cm)	
Net weight (lbs)	10.69	

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