STANPRO

Project: _____ Type: _____

Drawn by: _____ Catalogue #: _____ Date: _____

Series Spec Sheet

CDHB2

HAZARDOUS LOCATION HIGH BAYS

Class I, Division 2, Groups A, B, C, D

Non recessed marine luminaires, outside type (salt water)

The CDHB2 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 a 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 1, Division 2 is rated:
    - T4A (will not exceed 120°C) for 30 W models
    - T4 (will not exceed 135 °C) for 60 W, 100 W and 150 W models

  Mounting types

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

  Ambient operating temperature

  -40 °C to +55 °C

  Ambient operating humidity

  10 % to 90 % RH

  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 the 30 W and 60 W models, there is also the option of a drop glass lens or stripped spherical lens and for 150 W models a stripped spherical lens with a 120 degree beam angle.

- **Performance data**
  - Available in 2 700 K, 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 >60 000
  - 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 2, Group IIC

- **Compliances**
  - Meets requirements of ICES-005 issue 5 class A for use in commercial applications
  - IP66
  - NEMA 4X
  - IK07
  - IK09
  - UL 844
  - UL 1598
  - UL 1598A
  - 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)	3 420 - 22 650
Efficacy (lm/W)	114 - 152
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500
CRI	>80

30 W - 60 W

Flat lens

Stripped spherical lens

Drop lens

100 W - 150 W

Flat lens

Stripped spherical lens

5 yrs warranty

quick ship

LED fixture

dimmable fixture

wet location

hazardous location

IP 66

IK07[1]

IK09

ICES 005

NEMA 4X

CERTIFIED

MARINE UL LISTED

[1] For all models with a stripped spherical or drop lens.

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QUICK SHIP AND TECHNICAL SPECIFICATION TABLE

Order code	Model number	Lens type	Watts (W)	Volts (V)	Color temps. (K)[1]	Lumen output (LM)[2, 3]	Efficacy (LM/W)	CRI	Life L70 (hrs)[4]	Tested hours LM-80 (hrs)[4]	Beam angle (°)	B.U.G	LED current (MA)	Finish	Power factor	THD (%)
70281	CDHB2-S3-W-40-G-W3-GY	Flat	100	120-277	4 000	15 651	150	80+	60 000	17 000	110	B3-U2-G1	1 667	Grey	≥0.9	≤20

[1] Typical color temperature range: +/- 5 %.
[2] Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.
[3] Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.
[4] Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

ORDERING GUIDE

CDHB2 — ____ — ____ — ____ — ____ — ____ — GY

Series	Lumen package (W)	Voltage (V)	Color temperature (K)	Lens type	Beam angle (°)	Casting color
CDHB2	**S1 -** 30 **S2 -** 60 **S3 -** 100	**W -** 120-277	**27 -** 2 700 **30 -** 3 000 **40 -** 4 000 **50 -** 5 000 **57 -** 5 700 **65 -** 6 500	**G -** Clear flat glass	**MW2 -** 80 **W3 -** 110	**GY -** Grey
	S4 - 150	**W -** 120-277 **K -** 277-480		**D**[1] **-** Drop glass **S -** Clear stripped spherical glass	**W4 -** 120	

[1] Drop glass lens 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	4 233	136	>60 000	≥0.9	≤20
60			120-277	0.65	8 472	141			
100			120-277	1.1	15 050	145			
150			120-277	1.65	22 118	145			
150			277-480	0.6	22 880	148			
30		110	120-277	0.35	4 340	138			
60			120-277	0.65	9 005	149			
100			120-277	1.1	15 653	150			
150			120-277	1.65	23 248	151			
150			277-480	0.6	22 982	151			
30	Drop glass	120	120-277	0.35	3 932	125			
60			120-277	0.65	7 748	127			
30	Stripped spherical glass	120	120-277	0.35	3 975	133			
60			120-277	0.65	7 878	129			
100			120-277	1.1	14 180	136			
150			120-277	1.65	20 977	137			
150			277-480	0.6	21 064	138			

QUICK SHIP ACCESSORIES

Order code	Description
70301	Yoke mount for 100 W and 150 W models
70302[1]	Junction box

[1] Hazloc pipe and fittings not supplied.

Yoke

Wireguard for flat lens

Wireguard for spherical lens

ACCESSORIES (order separately)

Order code	Description
70380	Yoke mount for 30 W and 60 W models
70381	Wireguard for flat lens 30 W and 60 W models
70382	Wireguard for flat lens 100 W and 150 W models
70383	Wireguard for spherical lens 30 W and 60 W models
70384	Wireguard for spherical lens 100 W and 150 W models
70385	Wireguard for drop lens 30 W and 60 W models

Wiregaurd for drop lens

Junction box[1]

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.

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COMPATIBLE DIMMERS[1]

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

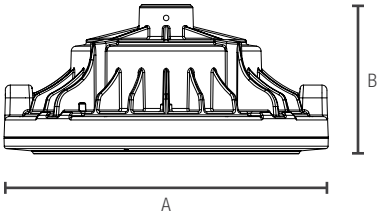
Dimming range : 0%-100%

[1] 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.

DIMENSIONS AND WEIGHTS

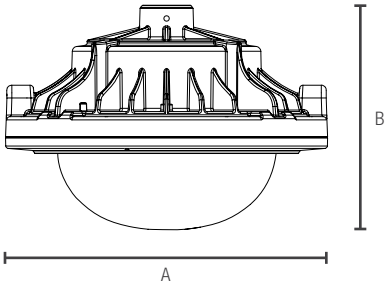
PENDANT MOUNT

FLAT LENS



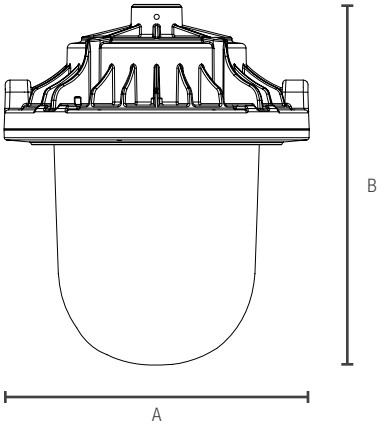
	30 W	60 W	100 W	150 W
A in. (cm)	7 5/8" (19.46 cm)		13" (32.99 cm)	
B in. (cm)	3 1/2" (8.96 cm)		4 5/8" (11.72 cm)	
Net weight (lbs)	5.29		13.67	

STRIPPED SPHERICAL LENS



	30 W	60 W	100 W	150 W
A in. (cm)	7 5/8" (19.46 cm)		13" (32.99 cm)	
B in. (cm)	5 3/8" (13.57 cm)		8" (20.17 cm)	
Net weight (lbs)	5.51		15.65	

DROP LENS



	30 W	60 W
A in. (cm)	7 5/8" (19.46 cm)	
B in. (cm)	9" (23.01 cm)	
Net weight (lbs)	7.72	

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