

HZB2 HAZARDOUS LOCATION HIGH BAY

CLASS I, DIVISION 2, GROUPS A, B, C, D
 NON RECESSED MARINE LUMINAIRES, OUTSIDE
 TYPE (SALT WATER)

The HZB2 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 %

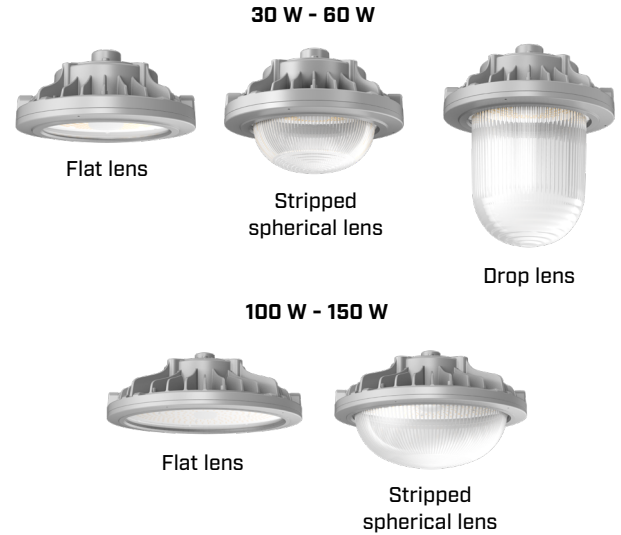
SUITABLE FOR ZONE

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	EFFICACY (LM/W)	114 - 152
WATTS [W]	30, 60, 100, 150	COLOR TEMPERATURE [K]	2 700, 3 000, 4 000, 5 000, 5 700, 6 500
LUMEN OUTPUT [LM]	3 420 - 22 650	CRI	>80
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¹ For all models with a stripped spherical or drop lens.

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.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE



PART NUMBER	LENS TYPE	WATTS [W]	VOLTS [V]	COLOR TEMPS. [K] ¹	LUMEN OUTPUT [LM] ^{2,3}	EFFICI- CACY 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 [%]
HZB2-A3-2-40-GW3GY	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

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SERIES	LUMEN PACKAGE [W]	VOLTS [V]	COLOR TEMPERATURE [K]	LENS TYPE	BEAM ANGLE [°]	CASTING COLOR
HZB2	A1 - 30 A2 - 60 A3 - 100	2 - 120-277	27 - 2 700 30 - 3 000 40 - 4 000 50 - 5 000	G - Clear flat Glass lens	MW2 - 80 W3 - 110	GY - Grey
	A4 - 150	2 - 120-277 7 - 277-480	57 - 5 700 65 - 6 500	D ¹ - Drop glass lens 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		110	120-277	1.65	22 118	145			
150			277-480	0.6	22 880	148			
30			120-277	0.35	4 340	138			
60	Drop glass	110	120-277	0.65	9 005	149			
100			120-277	1.1	15 653	150			
150			120-277	1.65	23 248	151			
150		120	277-480	0.6	22 982	151			
30			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	120-277	1.65	20 977	137			
150			277-480	0.6	21 064	138			
150									

QUICK SHIP ACCESSORIES



PART NUMBER	DESCRIPTION
CAS1019-M	YOKE FOR 100-150 W
JB033 ¹	JUNCTION BOX

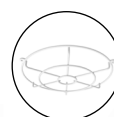
¹ Hazloc pipe and fittings not supplied.

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	DESCRIPTION
CAS1019-S	YOKE FOR 30-60 W
WGD923-S	WIREGUARD FOR FLAT LENS 30-60 W
WGD923-M	WIREGUARD FOR FLAT LENS 100-150 W
WGD924-S	WIREGUARD FOR SPHERICAL LENS 30-60 W
WGD924-M	WIREGUARD FOR SPHERICAL LENS 100-150 W
WGD925-S	WIREGUARD FOR DROP LENS LENS 30-60 W



CAS1019



WGD923



WGD924



WGD925-S



JB033¹

COMPATIBLE DIMMERS¹

BRAND	MODEL
LEVITON	DS71D
LUTRON	NTSTV-DV, NDTV, DVSTV

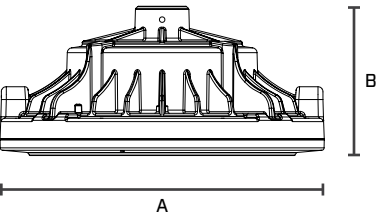
Dimming range: 0%-100%

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. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

DIMENSIONS AND WEIGHTS

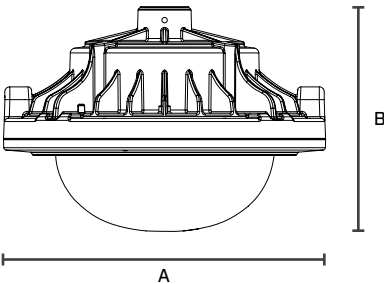
PENDANT MOUNT

FLAT LENS



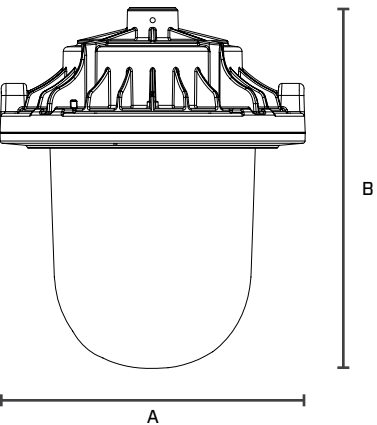
	30 W	60 W	100 W	150 W
A IN. [CM]	7 5/8" [19.46 cm]		13" [32.99 cm]	
B IN. [CM]	3 1/2" [8.96 cm]		4 5/8" [11.72 cm]	
NET WEIGHT (LBS)	5.29		13.67	

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	