

# HZB1 HAZARDOUS LOCATION HIGH BAYS

CLASS I, DIVISION 1, GROUPS B, C, D  
NON RECESSED MARINE LUMINAIRES,  
OUTSIDE TYPE (SALT WATER)

The HZB1 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 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  $\geq 0.9$
- THD of  $\leq 20$  %











### 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	EFFICIENCY (LM/W)	128-155
WATTS [W]	30, 60, 100, 150	COLOR TEMPERATURE [K]	3 000, 4 000, 5 000, 5 700, 6 500
LUMEN OUTPUT [LM]	3 992-23 486	CRI	>80
<div><div>WARRANTY 5 YEAR</div><div>LED</div><div>DIMMABLE</div><div>WET LOCATION</div><div>HAZARDOUS LOCATION</div><div>66 IP RATING</div><div>IK09 IMPACT RESISTANCE</div><div>NEMA 4X</div><div>UL CERTIFIED</div><div>MARINE UL LISTED</div></div>			

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.

## ORDERING GUIDE

HZB1						GY
SERIES	LUMEN PACK-AGE [W]	VOLTS [V]	COLOR TEMP. [K]	LENS TYPE	BEAM ANGLE [°]	CASTING COLOR
HZB1	A1 - 30	2 - 120-277	30 - 3 000	G - CLEAR FLAT GLASS	MW2 - 80	GY - GREY
	A2 - 60		40 - 4 000		W3 - 110	
	A3 - 100		50 - 5 000	D¹ - DROP GLASS S¹ - CLEAR STRIPPED SPHERICAL GLASS	W4 - 120	
	A4 - 150	2 - 120-277 7 - 277-480	57 - 5 700 65 - 6 500			

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

## LUMEN SPECIFICATION TABLE

WATTS	LENS TYPE	BEAM ANGLE	VOLTS	FIXTURE CURRENT	4 000 K		LIFE L70	POWER FACTOR	THD
					LUMEN OUTPUT [LM]	EFFICACY [LM/W]			
[W]		[°]	[V]	[A]			[HRS]		[%]
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	0.35	4 864	157			
30	FLAT GLASS	110	120-277	0.65	9 356	153			
60			120-277	1.1	15 670	153			
100			120-277	1.65	22 533	152			
150			120-277	1.65	21 379	141			
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]

PART NUMBER	TYPE
CAS1018-S	Yoke mount for 30 W and 60 W models
CAS1018-M	Yoke mount for 100 W and 150 W models
WGD920-S	Wireguard for flat lens 30 W and 60 W models
WGD920-M	Wireguard for flat lens 100 W and 150 W models
WGD921-S	Wireguard for spherical lens 30 W and 60 W models
WGD922-S	Wireguard for drop lens 30 W and 60 W models
JB033 <sup>1</sup>	Junction box

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

## COMPATIBLE DIMMERS<sup>1</sup>

BRAND	MODEL NUMBER
LEVITON	DS710
LUTRON	NTSTV-DV, NFTV, DVSTV

Dimming range: 0%-100%

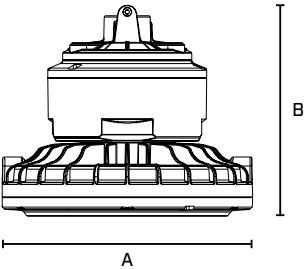
<sup>1</sup> This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. 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. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.



## DIMENSIONS AND WEIGHTS

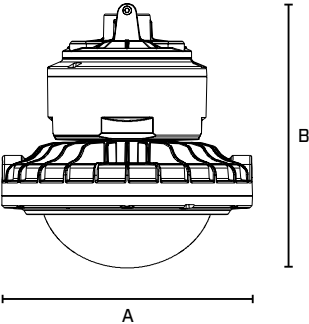
### PENDANT MOUNT

#### FLAT LENS



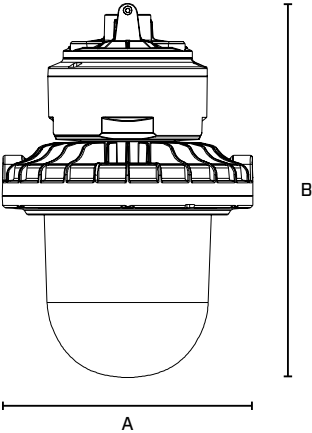
	30 W	60 W	100 W	150 W
A IN. [CM]	7 5/8" (19.50 cm)		12 3/4" (32.50 cm)	
B IN. [CM]	6 1/2" (16.50 cm)		9" (23.00 cm)	
NET WEIGHT (LBS)	8.66		24.36	

#### 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	