

HBZ-L1

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LED LINEAR HIGHBAY FOR HAZARDOUS LOCATIONS

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DESCRIPTION

LED Linear Highbay For Hazardous Locations /
120-277V Input(277-480V for 80W) /
C1D2 Groups A, B, C, D, T4A, T5 / IP66 Rated

APPLICATION

Power Plants/Heavy Industrials / Paper Mills /
Wastewater Treatment Plants / Loading Docks/ Platforms /
Shipyards / Chemical Processing Facilities / Petrochemical Processing Facilities



PRODUCT FEATURES

- Durable, Explosion Proof Design, Ideal for Areas with Ignitable and Combustible Elements
- High Temperature Silicone Gasketing
- Stainless Steel Exposed Fasteners
- Multiple Beam Spread Available, 110° Comes Standard, 35°/60°/80° Optional
- Hook & Cable Comes Standard
- Yoke Mount / Ceiling Mount / Pendant Mount(3/4 NPT) / Chain Mount / Pipe Mount Optional
- C1D2, Groups A, B, C, D
- -40°C(-40°F)~55°C(131°F) Operating Temperature
- 120-277V Input (277-480V for 80W)
- LED L70 Life Time>74,000 Hours, 5 Years Warranty Provided

PRODUCT SPECIFICATIONS

Model Number	Input Voltage	Nominal Wattage(W)	CCT	No Optics(110°)			80°			CRI	PF
				Wattage (W)	Efficacy (LM/W)	Lumens (LM)	Wattage (W)	Efficacy (LM/W)	Lumens (LM)		
HBZ-L1-40-40	120-277VAC	40	4000K	40.3	131.4	5,295	40.3	127.6	5,141	>70	>0.9
HBZ-L1-40-50			5000K	40.3	134.0	5,401	40.3	130.1	5,244		
HBZ-L1-80-40	120-277VAC	80	4000K	79.1	141.3	11,176	79.1	137.2	10,850	>70	>0.9
HBZ-L1-80-50			5000K	79.1	144.1	11,399	79.1	139.9	11,067		
HBZ-L1-80-40-V	277-480VAC	80	4000K	80.6	135.7	10,934	80.6	131.8	10,616	>70	>0.9
HBZ-L1-80-50-V			5000K	80.6	138.5	11,153	80.6	134.4	10,828		
HBZ-L1-120-40	120-277VAC	120	4000K	122.0	125.2	15,276	122.0	121.5	14,831	>70	>0.9
HBZ-L1-120-40			5000K	122.0	127.7	15,582	122.0	124.0	15,128		

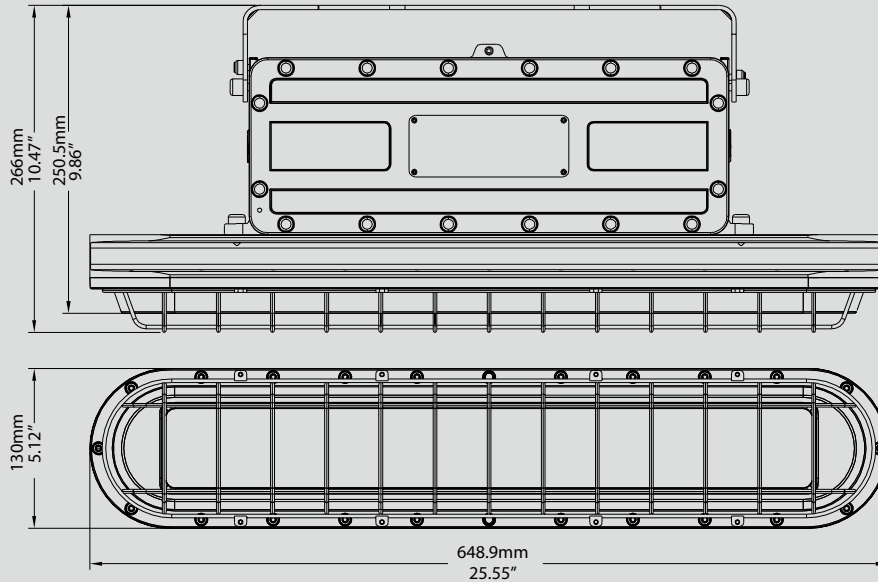
* Data for all wattages with 80° optics are tested, other data are extrapolated.

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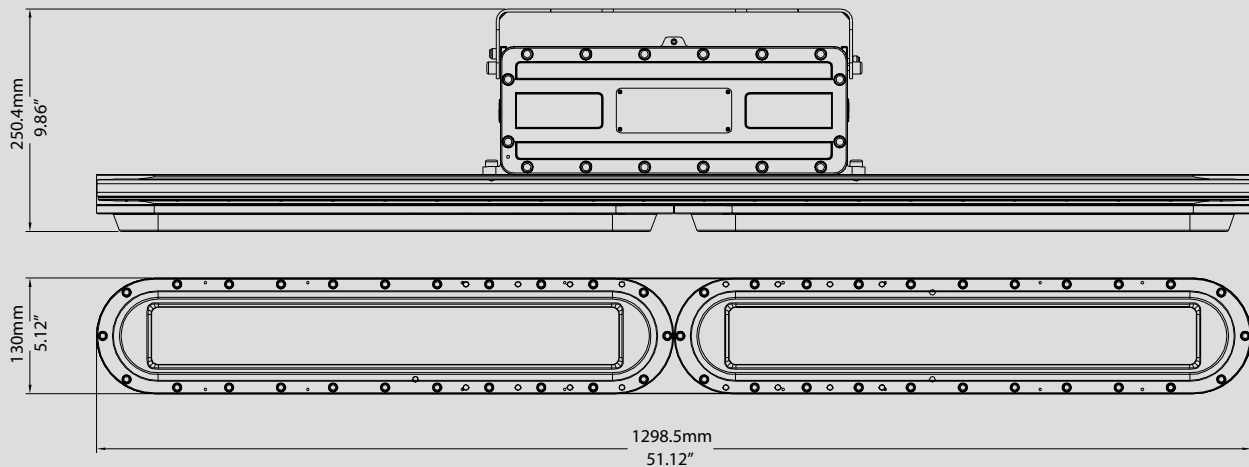
DIMENSIONS

HBZ-L1 40W



Model Number	Input Voltage(V)	Current (A)
HBZ-L1-40-XX	120	0.34
HBZ-L1-40-XX	277	0.16
HBZ-L1-80-XX	120	0.66
HBZ-L1-80-XX	277	0.30
HBZ-L1-80-XX-V	277	0.29
HBZ-L1-80-XX-V	480	0.18
HBZ-L1-120-XX	120	1.02
HBZ-L1-120-XX	277	0.47

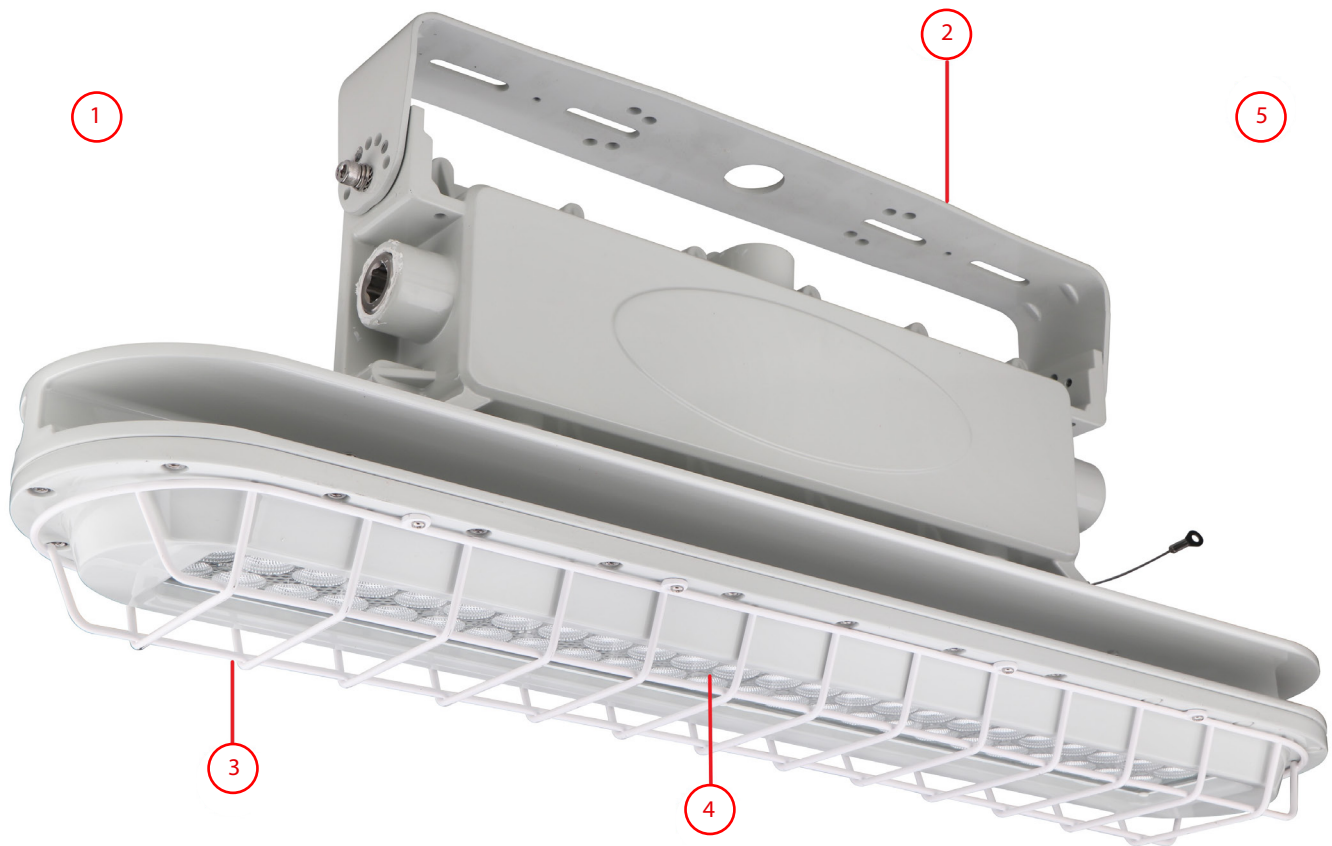
HBZ-L1 80W&120W



Model Number	Length		Width		Height(w/ Yoke Mount)			
	W/O Wire Guard	W/ Wire Guard	W/O Wire Guard	W/ Wire Guard	W/O Wire Guard	W/ Wire Guard	Net Weight	Carton Weight
HBZ-L1-40W	23.62"	25.55"	5"	5.12"	6.81"	10.47"	14.99 Lbs	18.96 Lbs
HBZ-L1-80W	47.27"	51.12"	5"	5.12"	6.81"	10.47"	17.71 Lbs	20.59 Lbs
HBZ-L1-120W	47.27"	51.12"	5"	5.12"	6.81"	10.47"	21.16 Lbs	27.56 Lbs

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PHYSICAL FEATURES**1. IP66 Rated**

Dust tight and protected against water jets from any direction

2. Installation

Available with multiple mounting options: yoke mount, ceiling mount, pendant mount, chain mount and pipe mount

3. Lens Protection

Wire guard optional to protect the lens from impact

4. Multiple Optics

Multiple optics are available for different applications

5. Applications

Class I Division 2 rated for use in hazardous locations where flammable gases or liquids are present

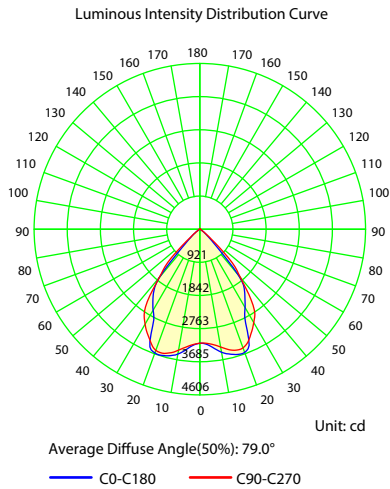
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LED LINEAR HIGHBAY FOR HAZARDOUS LOCATIONS

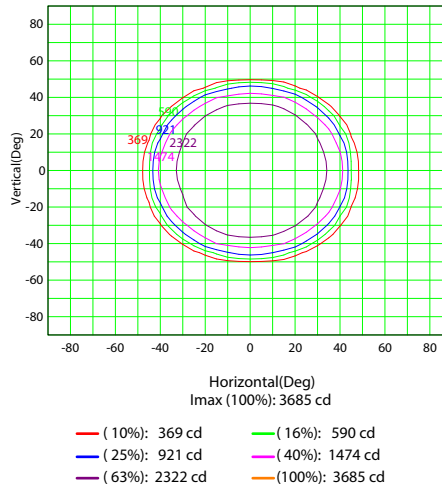
PHOTOMETRIC SPECIFICATIONS

HBZ-L1-40-40-C8 @120V,4000K,80°

POLAR CURVE



ISOCANDELA

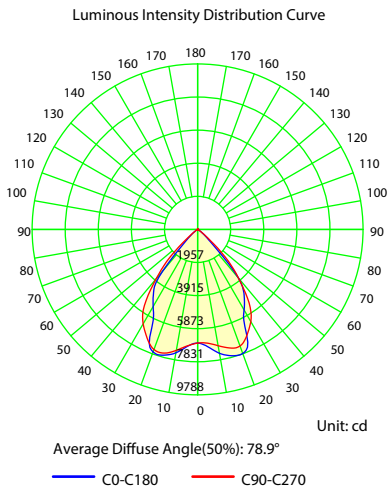


ZONAL LUMEN

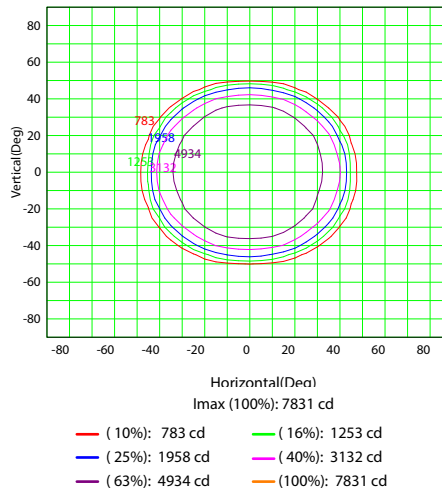
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2561	49.8
FL (0°-30°)	1407	27.4
FM (30°-60°)	1117	21.7
FH (60°-80°)	33	0.6
FVH (80°-90°)	3	0.1
BACK LIGHT	2565	49.9
BL (0°-30°)	1421	27.6
BM (30°-60°)	1110	21.6
BH (60°-80°)	31	0.6
BVH (80°-90°)	3	0.1
UP LIGHT	15	0.3
UL (90°-100°)	1	0.0
UH (100°-180°)	14	0.3
TRAPPED LIGHT	NA	NA

HBZ-L1-80-40-C8 @120V,4000K,80°

POLAR CURVE



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ZONAL LUMEN

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	5397	49.7
FL (0°-30°)	2969	27.4
FM (30°-60°)	2359	21.7
FH (60°-80°)	63	0.6
FVH (80°-90°)	6	0.1
BACK LIGHT	5432	50.1
BL (0°-30°)	3020	27.8
BM (30°-60°)	2346	21.6
BH (60°-80°)	61	0.6
BVH (80°-90°)	5	0.0
UP LIGHT	22	0.2
UL (90°-100°)	0	0.0
UH (100°-180°)	21	0.2
TRAPPED LIGHT	NA	NA

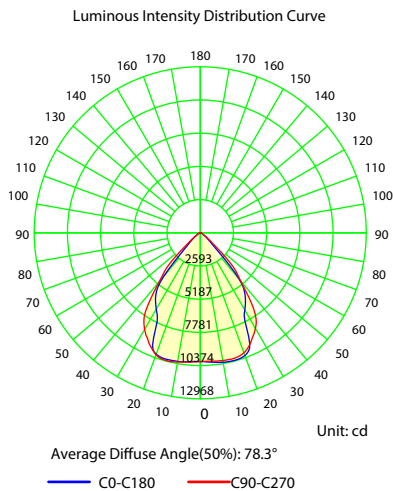
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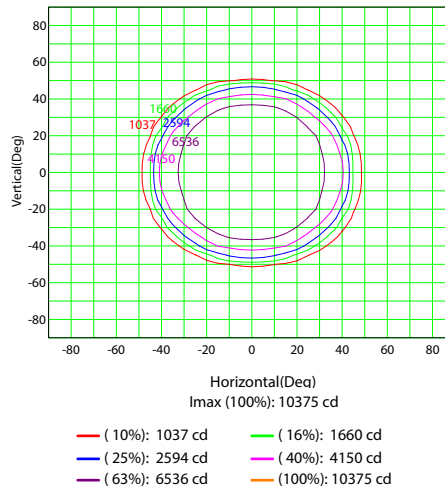
PHOTOMETRIC SPECIFICATIONS

HBZ-L1-120-40-C8 @120V,4000K,80°

POLAR CURVE



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ZONAL LUMEN

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	7387	49.8
FL (0°-30°)	4027	27.2
FM (30°-60°)	3234	21.8
FH (60°-80°)	117	0.8
FVH (80°-90°)	9	0.1
BACK LIGHT	7411	50.0
BL (0°-30°)	4060	27.4
BM (30°-60°)	3231	21.8
BH (60°-80°)	112	0.8
BVH (80°-90°)	8	0.1
UP LIGHT	33	0.2
UL (90°-100°)	0	0.0
UH (100°-180°)	33	0.2
TRAPPED LIGHT	NA	NA

ADDITIONAL ACCESSORIES (SOLD SEPARATELY)

ATG CODE	MODEL NUMBER	DESCRIPTION
YM	YM-HBZL1-01	Yoke Mount for HBZ-L1
CM	CM-HBZL1-01	Ceiling Mount for HBZ-L1
PM	PM-HBZL1-01	Piple Mount Kit for HBZ-L1
HM	HM-HBZL1-01	Chain Mount for HBZ-L1
WG1	WG-HBZL1-01	Wire Guard for HBZ-L1, 40W
WG2	WG-HBZL1-02	Wire Guard for HBZ-L1, 80W, 120W

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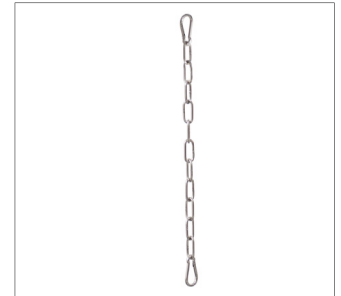
YM-HBZL1



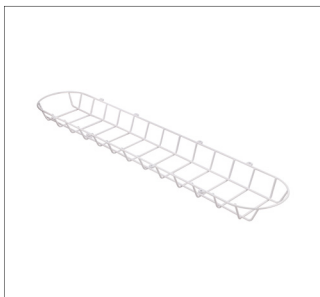
PM-HBZL1



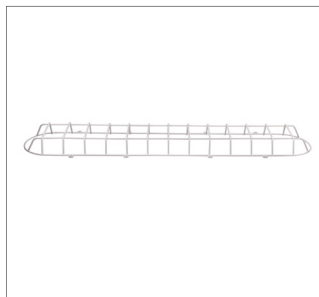
CM-HBZL1



HM-HBZL1



WG-HBZL1



WG-HBZL2

ORDER FORMAT

Family	Series	Finish	Wattage	CCT	Input	Lens&Options	NPT
HBZ	L1						
		Blank= Grey	40= 40W	40= 4000K	Blank= 100-277Vac	C0= Flat Clear Lens, No Extra Optics	Blank= No NPT
		Y= Yellow	80= 80W	50= 5000K	V= 277-480Vac*	C3= Flat Clear Lens, 35° Beam Spread	N= 3/4 NPT☆
			120= 120W			C6= Flat Clear Lens, 60° Beam Spread	
						C8= Flat Clear Lens, 80° Beam Spread	
						C10= Flat Clear Lens, 110° Beam Spread	

* Only 80W model is available with 277-480Vac input

☆ 3/4 NPT pipe is not provided

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LED LINEAR HIGHBAY FOR HAZARDOUS LOCATIONS

LISTINGS**UL 844**

Standard for Luminaires for Use in Hazardous (Classified) Locations

UL 1598

Standard for Luminaires

UL Listed for Wet Locations**IP66 Rating**

No ingress of dust, complete protection against contact (dust tight); no ingress of water projected in powerful jets from any direction.

DesignLights Consortium 5.1 Standard**Class I, Division 2, Groups A, B, C, D**

Class I: A hazardous location in which flammable gases or vapors may be present in the air in sufficient quantities to be explosive or ignitable, such as petroleum refineries, aircraft hangars, dry cleaning plants, utility gas plants or storage areas for liquified petroleum or natural gas, and spray finishing areas.

Division 2: Abnormal condition, where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions. Class I locations are broken into four groups by the Code: A, B, C and D.

Group A: The only substance in Group A is acetylene because it is a gas with extremely high explosion pressures.

Group B: This group includes hydrogen and other materials with similar characteristics.

Group C&D: The most usual Class I groups. They comprise the greatest percentage of all Class I hazardous locations. Found in Group C is ethylene. Found in Group D are many of the most common flammable substances such as butane, gasoline, natural gas and propane.