

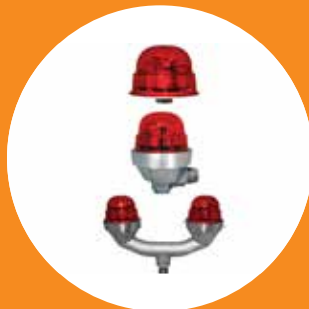
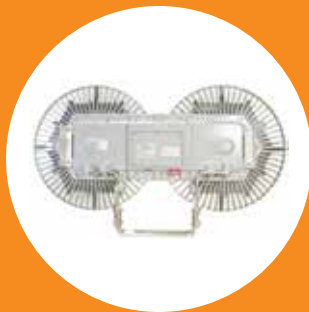
Dialight
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SafeSite[®] LED High Bay - UL 844
for Indoor and Outdoor Hazardous Applications

On when it matters most.

Products and solutions that protect your business





Features & Benefits

- 5 & 10 year full performance warranty
- L70 rated for >100,000 hours @ 25°C ambient
- Instant on/off operation
- Universal input (100-277V AC, 50/60Hz)
- Superior color rendition index compared to HPS, LPS, MV
- Mercury free
- Resistant to shock and vibration
- Factory sealed
- Temperature compensation technology for longer life

About Dialight

Dialight (LSE: DIA.L) is leading the energy efficient LED lighting revolution around the world for industrial and hazardous areas as well as transportation and infrastructure applications. For 40 years it has been committed to the development of LED lighting solutions that enable organizations to vastly reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO2 emissions.

Hazardous Locations Ratings

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

Class	Hazardous Material in Surrounding Atmosphere
Class I	Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.
Class II	Hazardous because combustible or conductive dusts are present.
Class III	Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class.

Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

Division	Presence of Hazardous Material
Division 1	The substance referred to by class is present during normal conditions.
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.

Groups

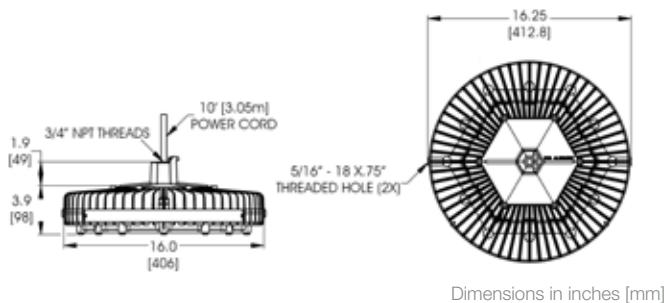
The group defines the hazardous material in the surrounding atmosphere.

Group	Hazardous Material in Surrounding Atmosphere
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein.
Group C	Carbon monoxide, ether, hydrogen sulfide, morphine, cyclopropane, ethyl and ethylene or gases of equivalent hazard.
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard.
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.
Group F	Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sensitized by other material so they present an explosion hazard.
Group G	Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals.

Reference:
http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html

SafeSite® LED High Bay - UL 844

8,500 - 17,000 Lumens Standard Models



Temperature Ratings

	Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
HBC / HBM	-40F to +149F (-40C to +65C)	-40F to +131F (-40C to +55C)
HBP		-40F to +149F (-40C to +65C)
HBD / HBF	-40F to +140F (-40C to +60C)	-40F to +104F (-40C to +40C)

Certifications & Ratings

- UL 844
- UL 1598/A
- C22.2 No.137-M81
- Group B for Hydrogen
- ABS Design Assessed: # 12-HS926876-PDA
- NEMA 4X
- IP66

Mechanical Information:

- Fixture weight:** HBC - 30 lbs (13.6 kg)
HBD - 17 lbs (7.7 kg)
HBM - 30 lbs (13.6 kg)
HBP - 32 lbs (14.5 kg)
- Shipping weight:** HBC - 35 lbs (16 kg)
HBD - 22 lbs (10 kg)
HBM - 35 lbs (16 kg)
HBP - 37 lbs (17 kg)
- Mounting:** (1) 3/4" NPT
(2) 5/16"-18 x .75" UNC
- Cabling:** 10' (3.5m) ST00W Power Cord

Electrical Specifications:

- Operating voltage:** 100 - 277V AC, 50/60Hz
347 - 480V AC, 50/60Hz
- Power consumption:** See table
- Operating temp:** -40°F to +149°F (-40°C to +65°C)
- Noise requirement /EMC:** FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Transient protection:** Has protection devices rated up to 6kA. Tested with 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
- THD:** < 20%
- Power factor:** > 0.9

Construction:

- Housing:** Powder coated aluminum
- Finish:** Superior dual coat finish
Sealed polyester topcoat
Chemical-resistant epoxy primer
- Lens:** Polycarbonate - UL1598/A wet location
Tempered glass

Photometric Information:

- CRI:** > 70
- CCT:** 5000K (cool white)
4000K (neutral white)

All values typical unless otherwise stated
Lumen values are typical (tolerance +/- 10%)

SafeSite® LED High Bay - UL 844

Mounting Accessories



Classifications: CID1 • CID2
HBXW1
 • Wall mount



Classifications: CID2
HBXW2
 • Swivel bracket and cable gland



Classifications: CID2
HBX-DUAL-BRCKT
 • Dual bracket



Classifications: CID1 • CID2
HBXC1
 • Ceiling mount

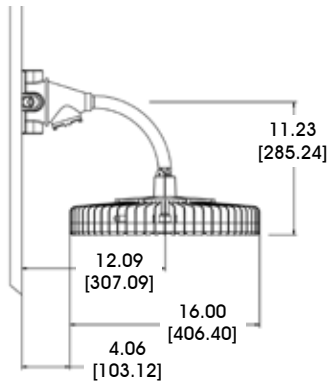


Classifications: CID1 • CID2
HBXW3-SSL-316
 • Stainless steel swivel bracket
 • 316 Stainless steel
HBXW3-SSL-304
 • Stainless steel swivel bracket
 • 304 Stainless steel

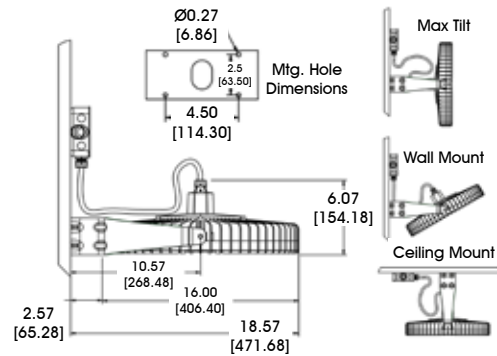


Classifications: CID2
HBXCG
 • Cable gland

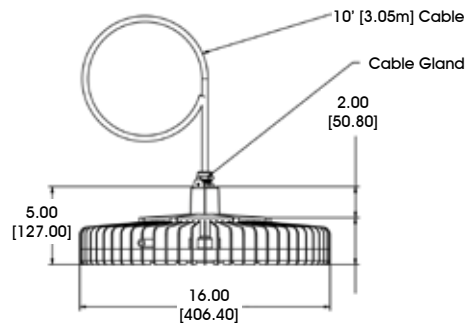
HBXW1 - Wall Mount



HBXW2 - Swivel Bracket and Cable Gland



HBXCG - Cable Gland



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Ordering Information

Classifications: CID1 C, D • CID2 Groups A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIID1 • CIID2

100 - 277V AC models

Part Number	CID1	CID2	CIID1	CIID2	CIID	Voltage	Lens	Warranty	CCT	Fixture Lumens	Watt	LPW
Standard Models - 100 - 277V AC												
HBF2C4N		•	•	•	•	100-277V AC	Diffused polycarbonate	10yr	5000K (cool white)	12,000	146	68
HBF2C4M		•	•	•	•	100-277V AC	Diffused polycarbonate	5yr	5000K (cool white)	10,000	146	82
HBP9C3M	•		•			100-277V AC	Clear tempered glass	5yr	5000K (cool white)	9,500	146	65
HBM9C3M	•	•	•	•		100-277V AC	Clear tempered glass	5yr	5000K (cool white)	9,500	146	65
HBF3C4L		•	•	•	•	100-277V AC	Diffused polycarbonate	5yr	5000K (cool white)	8,500	124	69
HBM8C3G	•					100-277V AC	Clear tempered glass	5yr	5000K (cool white)	5,500	146	38

All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).

HBPxxx models are rated CID1 B, C, D

347 - 480V AC Models

Part Number	CID1	CID2	CIID1	CIID2	CIID	Voltage	Lens	Warranty	CCT	Fixture Lumens	Watt	LPW
Standard Models - 347 - 480V AC												
HBDGCTN		•		•	•	347-480V AC	Clear tempered glass	5yr	5000K (cool white)	17,000	172	99
HBC9CTN	•	•	•	•		347-480V AC	Clear tempered glass	5yr	5000K (cool white)	14,500	172	84
HBDGC5N		•		•	•	347-480V AC	Clear tempered glass	5yr	5000K (cool white)	14,000	161	87
HBF2C5N		•	•	•	•	347-480V AC	Diffused polycarbonate	5yr	5000K (cool white)	12,000	161	75
HBD2C5N		•		•	•	347-480V AC	Clear polycarbonate	5yr	5000K (cool white)	12,000	161	75
HBC9C6N	•	•	•	•		347-480V AC	Clear tempered glass	5yr	5000K (cool white)	11,000	161	68
HBF2C5M		•	•	•	•	347-480V AC	Diffused polycarbonate	5yr	5000K (cool white)	10,500	146	72
HBD2C5M		•		•	•	347-480V AC	Clear polycarbonate	5yr	5000K (cool white)	10,500	146	72
HBP9C6M	•		•			347-480V AC	Clear tempered glass	5yr	5000K (cool white)	9,500	146	65
HBM9C6M	•	•	•	•		347-480V AC	Clear tempered glass	5yr	5000K (cool white)	9,500	146	65
HBC9C6M	•	•	•	•		347-480V AC	Clear tempered glass	5yr	5000K (cool white)	9,500	146	65
HBF3C5L		•	•	•	•	347-480V AC	Diffused polycarbonate	5yr	5000K (cool white)	8,500	124	69
HBD3C5L		•		•	•	347-480V AC	Diffused glass	5yr	5000K (cool white)	8,500	124	69
HBP8C3G	•					347-480V AC	Clear tempered glass	5yr	5000K (cool white)	5,500	146	38
HBC8C6G	•	•	•	•		347-480V AC	Clear tempered glass	5yr	5000K (cool white)	5,500	146	38

All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).

HBPxxx models are rated CID1 B, C, D

