

# Dialight



**SafeSite® LED High Bay**  
High Efficiency - ATEX / IECEx, INMETRO  
for Outdoor Industrial Applications







## Features & Benefits

- 10 year warranty
- L70 rated for >150,000 hours @ 25°C ambient
- Low power consumption
- Instant on/off
- Low Maintenance
- Mercury free
- No UV or IR
- Resistant to shock and vibration
- Superior colour rendition index compared to HPS, LPS, MV
- Optional glass retention film available

## Application

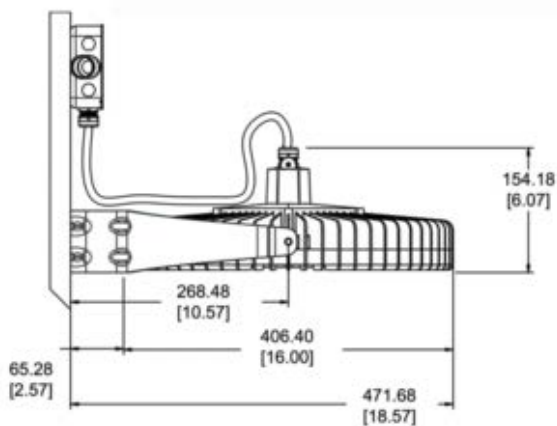
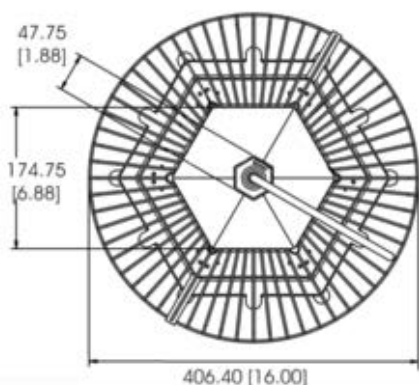
The Dialight SafeSite<sup>®</sup> LED High Bay luminaire was designed specifically to replace conventional lighting in a wide variety of indoor & outdoor hazardous area applications. Its low profile light weight design and versatile mounting options make it ideal for High Bay applications for ATEX and IECEx classified hazardous area zones. Dialight's long life LED luminaires are designed to meet the most demanding specification criteria while offering maximum energy savings, reduced maintenance costs, and a superior quality of light.

# SafeSite® LED High Bay - ATEX / IECEx

## Standard Models



Patent pending



Dimensions in mm (inches)

### Certifications & Ratings

- ATEX / IECEx Zones 1, 21
- ATEX / IECEx Zones 2, 22
- CE
- ABS Design Assessed: (pending)
- IP66
- RoHS compliant

### Certifications & Ratings

- Ex II 2 GD Ex d\* IIB+H2 T5 Gb
- Ex tb IIIC 100°C
- Ex II 2 GD Ex d\* IIB+H2 T4 Gb
- Ex tb IIIC 135°C
- Certificate numbers:  
Baseefa 12ATEX0070X  
IECEx BAS 12.0044X

\*Add EX e for factory fitted junction box

### Mechanical Information:

- Fixture weight:** 14.6 kg (31 lbs) with fixed cable  
16.1 kg (34 lbs) with junction box
- Mounting:** 316 stainless steel stirrup mounting bracket included
- Wiring options:** Factory installed 3 meter SWB cable or factory fitted junction terminal box with 2 off M20 x 1.5mm or 2 off M25 x 1.5mm cable entries

### Electrical Specifications:

- Operating voltage:** 110-277 VAC, 50/60Hz: 23,500lm models  
100-277 VAC, 50/60Hz: 16,000lm and lower models
- Total system power consumption:** See table
- Operating temperature:** -40°C to +60°C
- Harmonics:** IEC 61000-3-2
- Surge protection:** Protection devices capable of handling up to 6kV. Tested for 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
- THD:** <20%
- Power factor:** > 0.9

### Construction:

- Housing:** Copper free aluminum
- Finish:** Superior dual coat finish  
- Sealed polyester topcoat  
- Chemical resistant epoxy primer
- Lens:** Tempered glass  
(optional fragment retention film available)

### Photometric Information:

- CRI:** 75
- CCT:** 5000K (cool white)  
4000K (neutral white)

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

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

# SafeSite® LED High Bay - High Efficiency - ATEX / IECEx

## Mounting Options & Accessories



**HBXW3-SS**

- 316 stainless steel swivel bracket (included with fixture)



**HBXW3-SSL-304FT**

- 304 stainless steel forward throw bracket

**HBXW3-SSL-316FT**

- 316 stainless steel forward throw bracket



**HBXW3-SSL-316M**

- 316 Stainless steel bracket

**HBXW3-SSL-304M**

- 304 Stainless steel bracket



**HBXSBDK**

- Sand blast kit (dome lens)

**HBXSBDL**

- Sacrificial dome lens



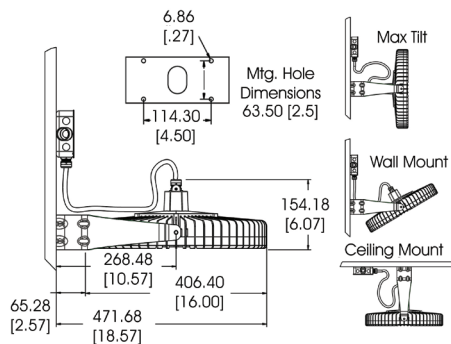
**HBXSBK**

- Sand blast kit (flat lens)

**HBXSBL**

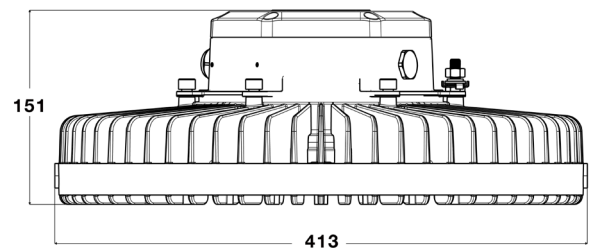
- Sacrificial flat lens

HBXW3 - Swivel Bracket Dimensions



Dimensions in mm (inches)

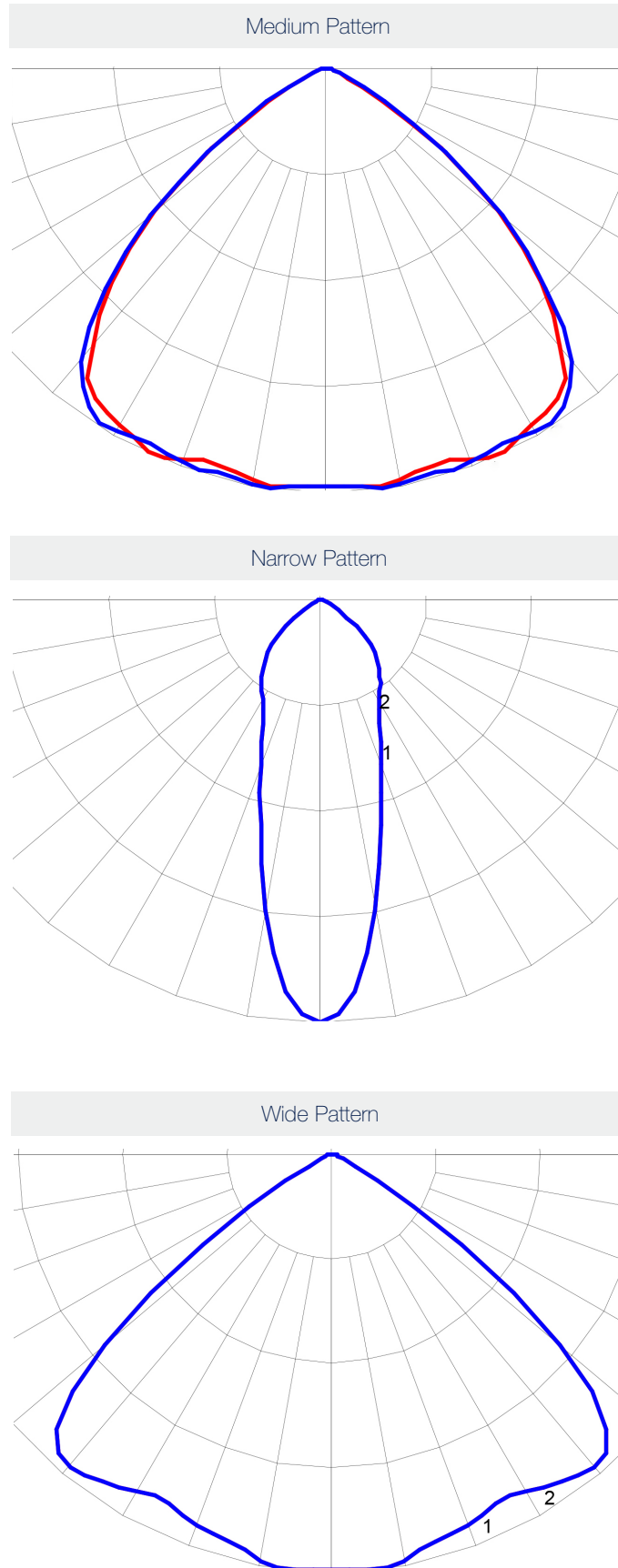
High Bay with Junction Box Dimensions



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# SafeSite® LED High Bay - High Efficiency - ATEX / IECEx

## Beam Distribution



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# SafeSite® LED High Bay - High Efficiency - ATEX / IECEx

## Ordering Information - Standard Models

Part Number	Hydrogen Environments	Initial Fixture Lumens	Typical Wattage	Maximum Wattage	Lm/W	IP Rating	Voltage	Colour Temperature (CCT)	Lens	Beam Distribution
Standard Models										
HEA9MC4PN-BCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4PN-BCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4PN-BCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4KN-BCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4KN-BCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4KN-BCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4GN-BCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4GN-BCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4GN-BCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4DN-BCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4DN-BCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4DN-BCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
Junction Box Models <sup>2</sup>										
HEA9MC4PN-JCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4PN-JCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4PN-JCG		23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4KN-JCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4KN-JCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4KN-JCG		16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4GN-JCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4GN-JCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4GN-JCG		12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEA9MC4DN-JCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEA9RC4DN-JCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEA9NC4DN-JCG		9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow

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

<sup>1</sup>For optional glass fragment retention film, change the 11th character from a **C** to a **E**. Example: HEA9MC4PN-BCG becomes HEA9MC4PN-BEG

<sup>2</sup>Junction box models come standard with M20 entries. For M25 entries change the 10th character from **J** to **K**. Example: HEA9MC4PN-JCG becomes HEA9MC4PN-KCG

# SafeSite® LED High Bay - High Efficiency - ATEX / IECEx

## Ordering Information - Hydrogen Environments

Part Number	Hydrogen Environments	Initial Fixture Lumens	Typical Wattage	Maximum Wattage	Lm/W	IP Rating	Voltage	Colour Temperature (CCT)	Lens	Beam Distribution
Hydrogen Environments - Standard Models										
HEH9MC4PN-BCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4PN-BCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4PN-BCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4KN-BCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4KN-BCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4KN-BCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4GN-BCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4GN-BCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4GN-BCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4DN-BCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4DN-BCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4DN-BCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
Hydrogen Environments - Junction Box Models <sup>2</sup>										
HEH9MC4PN-JCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4PN-JCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4PN-JCG	•	23,500	212	235	110	IP66	110 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4KN-JCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4KN-JCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4KN-JCG	•	16,000	144	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4GN-JCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4GN-JCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4GN-JCG	•	12,500	112	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow
HEH9MC4DN-JCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Medium
HEH9RC4DN-JCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Wide
HEH9NC4DN-JCG	•	9,650	88	235	110	IP66	100 - 277 VAC	5000K (cool white)	Glass	Narrow

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

<sup>1</sup>For optional glass fragment retention film, change the 11th character from a **Q** to a **E**. Example: HEA9MC4PN-**BCQ** becomes HEA9MC4PN-**BEQ**

<sup>2</sup>Junction box models come standard with M20 entries. For M25 entries change the 10th character from **J** to **K**. Example: HEA9MC4PN-**JCG** becomes HEA9MC4PN-**KCG**

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