



DuroSite® Series LED High Bay - CE Approved
for Indoor and Outdoor Industrial Applications



DuroSite® LED High Bay



Features & Benefits

- L70 rated for > 100,000 hours @ 25°C ambient
- 5 year full performance warranty standard
- 10 year full performance warranty available (17,500 - 25,000 lumen models only)
- Up to 102lm/W
- Significant energy savings
- Instant on/off
- Maintenance free
- Mercury free
- No UV or IR
- Produces minimal heat compared to traditional fixtures
- Reflector based optics for precise light control
- Resistant to shock and vibration
- Temperature compensation technology for long life
- Copper free aluminium
- Typical payback < 2 years



Gilbertson and Page
Manufacturing Facility



MMD Shipping
Cold Storage Facility



Paulaner
Brewery

Typical Applications

- Food and Beverage
- Heavy Industrial
- Manufacturing
- Pulp and Paper
- Fuel Pump Canopy
- Cold Storage
- Warehouse

View the full case studies at:

Martisa - www.dialight.com/assets/brochures_and_catalogs/Illumination/mdexbrx001.pdf

Gilbertson & Page - www.dialight.com/assets/brochures_and_catalogs/Illumination/mdexmognp001.pdf

MMD Shipping - www.dialight.com/news/details/mmd_shipping

Paulaner - www.dialight.com/news/details/paulaner_led_high_bay_case_study

Rexam - www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDEXMRMX001.pdf



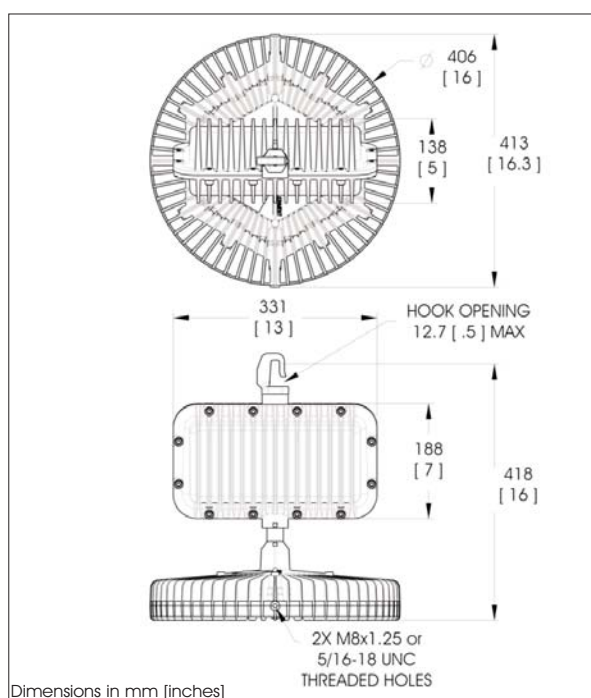
Significantly smaller than traditional High Bay fixtures

Complete your own Return on Investment calculation at: www.dialight.com/tcoCalculator/Durosite_HighBay

www.dialight.com



DuroSite® LED High Bay - CE 25,000 Lumen Version



Features & Benefits

- L70 rated for >100,000 hours @ 25°C ambient
- 10 year full performance warranty
- Instant on/off operation
- Universal power supply
- Superior colour rendition index compared to HPS, LPS, MV
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Factory sealed

Certifications & Ratings:

- CE - compliant
EN 55015:2006 / EN 61547:2009 / EN 60598:2008
- EN 62471:2008
- IK05 to EN50102

Application:

The first of its kind, the Dialight DuroSite® LED High Bay luminaire was designed specifically to replace conventional lighting in a wide variety of industrial applications, both indoor and outdoor. Now providing 25,000 lumens, the High Bay is a great fit for applications such as high bay lighting, warehouses, factories, cold stores, restricted access areas, service areas and other applications.

All of 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. Hazardous area versions are also available.

Mechanical Information

Fixture Weight:	13.6 kg (30 lbs)
Shipping Weight:	15.88 kg (35 lbs)
Mounting:	Hook For other options consult factory

Cabling: 3m (10') PVC Power Cord

Electrical specifications

Operating Voltage:	100-277V AC
Total System Power Consumption:	See table
Operating Temp:	-40°C to +65°C (-40°F to +149°F)
Harmonics:	EN 61000-3-2
Surge Protection:	EN 61000-4-5 6kV line to ground 6kV line to line
THD:	<5% (120VAC) <10% (230/240VAC) <12% (277VAC)
Power Factor:	> 0.9

Construction

Housing:	Copper free aluminium
Finish:	Light grey polyester powder coated
Lens:	Tempered Glass

Photometric Information

CRI:	70
CCT:	5,000K (cool white) 4,000K (neutral white)

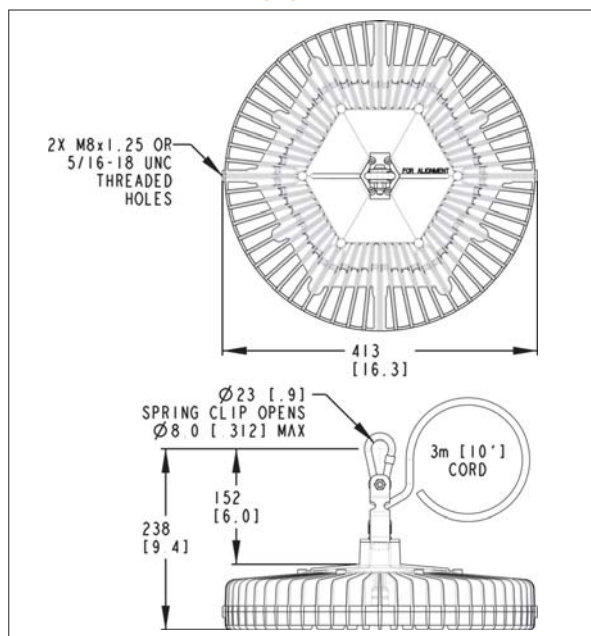
All values typical unless otherwise stated
All Lumen Values are typical +/- 10%





DuroSite® Series LED High Bay

CE Approved



Certifications & Ratings:

- CE - compliant
EN 55015:2006 / EN 61547:2009 / EN 60598:2008
- EN 62471:2008
- ABS Design Assessed: # 12-HS950618-PDA
- Gost R approval
- IEC60068 salt spray testing- severity 1
- IK10 to EN50102 (polycarbonate lens)
- IK06 to EN50102 (Acrylic lens)
- IK05 to EN50102 (Glass lens)
- IP66 to EN60529

Features and Benefits (Only for Occupancy Models)

- No additional electrical connections required for installation
- Once installed, the lights can be programmed and set up from the ground using the remote control (sold separately)
- Allows the user to maximise their energy savings by having the lights on only when they are needed
- Consult factory for recommended installation guidelines and applications
- Senses heat movement across the sensing zones - consult factory for more details

Application:

The first of its kind, the Dialight DuroSite® LED High Bay luminaire was designed specifically to replace conventional lighting in a wide variety of industrial applications, both indoor and outdoor. Its low profile, light weight design and versatile mounting options make it ideal for many applications such as high bay lighting, warehouses, factories, cold stores, restricted access areas, service areas and other applications with mounting heights greater than 4 meters.

All of 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. Hazardous area versions are also available.

Mechanical Information

Fixture Weight:	8 kg (18 lbs)
Shipping Weight:	11 kg (24 lbs)
Mounting:	Hook or Swivel bracket (supplied separately)
Cabling:	3m (10') PVC Power Cord

Electrical specifications

Operating Voltage:	100-277V AC
Total System Power Consumption:	See table
Operating Temp:	-40°C to +65°C (-40°F to +149°F)
Harmonics:	EN 61000-3-2
Surge Protection:	EN 61000-4-5 6kV line to line 6kV line to ground
THD:	<5% (120VAC) <10% (230/240VAC) <12% (277VAC)

Power Factor:	> 0.9
---------------	-------

Construction

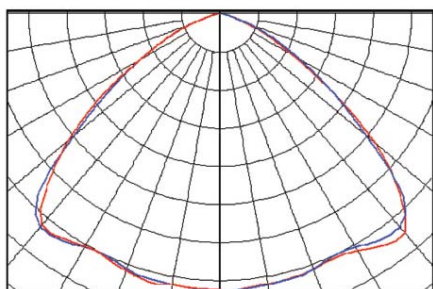
Housing:	Copper free aluminium
Finish:	Light grey powder coated
Lens:	Acrylic (PMMA) Polycarbonate (PC) Tempered Glass

Photometric Information

CRI:	70
CCT:	5,650K (cool white) 4,300K (neutral white)

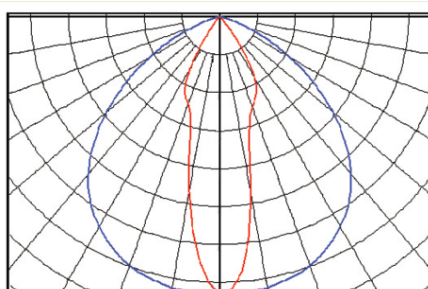
All values typical unless otherwise stated
All Lumen Values are typical +/- 10%

Circular Pattern



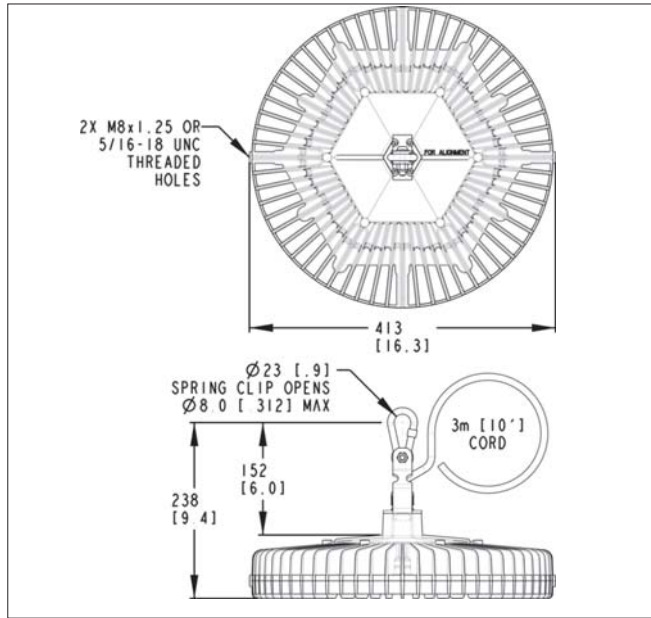
Polar Plots

Aisle Pattern



DuroSite® LED High Bay Fixture Options and Accessories

Variable Dimming Version: 0-10 VDC



STEP Dimming Mode

Dialight offers a series of High Bay products with ACTIVE Dimming. Dimming permits the user to select a specific light output and power consumption to meet their requirements. The reduction in light output and power consumption are approximately proportional. Reducing the light output by 50% will reduce the power consumption by 50%. LEDs are particularly well suited for dimming as compared to other industrial light sources.

The variable dimming High Bays may also be configured to operate in a single STEP Dimming configuration. When the dimming control conductors are connected together, the light output will be reduced to approximately 20% of the maximum light output. The total fixture power consumption will also be reduced to approximately 20% (30 W). Connecting the leads together can be accomplished with a common wall switch.

Mechanical, Electrical and Photometric information is the same on page 1 except where detail is provided

Variable Dimming Cable: Dimming connections included in factory installed 5 core cable. Multiple high bays can be connected to the same dimmer, consult dimming instructions and manufacturer

Variable Dimming Control: 0-10 VDC active

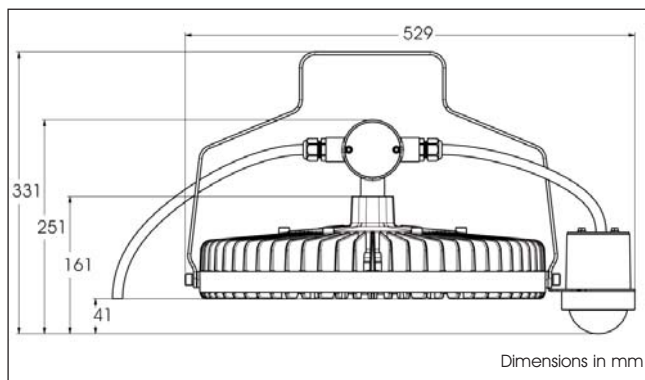
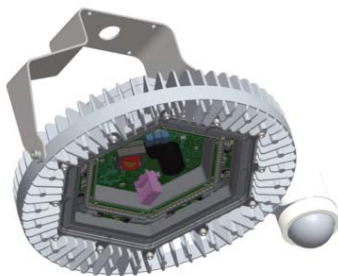
Typical Dimming Range: 10 VDC = 100% light output
0 VDC = 20% light output and power consumption

Features and Benefits

- 3 meter, 5 core PVC cable pre-installed
- Multiple High Bays can be connected to the same dimmer
- May also be configured to operate in a single STEP Dimming configuration, please consult technical department

DuroSite® LED High Bay Fixture

Occupancy Sensor Version



Features and Benefits

- No additional electrical connections required
- Once installed, the lights can be programmed and set up from the ground using the remote control (sold separately)
- Allows user to maximise their energy savings by having the lights on only when needed
- Senses heat movement across the sensing zones - consult factory for more details

Mechanical, Electrical and Photometric information is the same as on page 1 except where detail is provided

Weight: 8.4kg (18.5lbs)

Sensor Mounting: Cable input 3 metre 3 core cable fitted

Sensor Timing
Non dimming version: 1,5,10,15 and 30mins.

Dimming version: On, Off, 1, 10, 30 and 60 mins.

Sensor operation: Dependant on application and height, please consult technical department

Operating voltage: 230/240V AC only

Operating Temperature: -30°C + 50°C (-22°F + 122°F)

IP Rating: IP40 to EN60529

DuroSite® LED High Bay Fixture

Ordering Information

Part Number	Initial Fixture Lumens	Wattage	Lumens Per Watt	Lens		Optical Pattern		Variable Dimming
				Clear	Diffused	Circular	Aisle	
10 Year Warranty								
HLGC4KN-EUH-10YR	25,000	250	100	Tempered Glass		•		
HLGN4KN-EUH-10YR	25,000	250	100	Tempered Glass		•		
HLGC4KD-EUH-10YR	25,000	250	100	Tempered Glass		•		•
HLGN4KD-EUH-10YR	25,000	250	100	Tempered Glass		•		•
HBGCMP-EUH-10YR	17,500	172	102	Tempered Glass		•		
HBGCMP-EUDH-10YR	17,500	172	102	Tempered Glass		•		•

Part Number	Initial Fixture Lumens	Wattage	Lumens Per Watt	Lens		Optical Pattern	
				Clear	Diffused	Circular	Aisle
5 Year Warranty							
HBGCMP-EUH	17,500	172	102	Tempered Glass		•	
HBGC4P-EUH	14,500	161	90	Tempered Glass		•	
HB7C4M-EUH	11,750	146	80	Tempered Glass			•
HB1C4N-EUH	11,500	146	79	Acrylic		•	
HB5C4N-EUH	10,750	146	74		Acrylic	•	
HB0C4M-EUH	10,750	146	73	Polycarbonate		•	
HB2C4M-EUH	10,000	146	68		Polycarbonate	•	
Occupancy Sensor High Bays							
HB7C4M-EUTOS	11,750	146	80	Tempered Glass			•
HB1C4N-EUTOS	11,500	146	79	Acrylic		•	
HB5C4N-EUTOS	10,750	146	74		Acrylic	•	
HB0C4M-EUTOS	10,750	146	73	Polycarbonate		•	
HB2C4M-EUTOS	10,000	146	68		Polycarbonate	•	
Variable Dimming High Bays							
HBGCMP-EUDH	17,500	172	102	Tempered Glass		•	
HBGC4P-EUDH	14,500	161	90	Tempered Glass		•	
HB7C4M-EUDH	11,750	146	80	Tempered Glass			•
HB1C4N-EUDH	11,500	146	79	Acrylic		•	
HB5C4N-EUDH	10,750	146	74		Acrylic	•	
HB0C4M-EUDH	10,750	146	73	Polycarbonate		•	
HB2C4M-EUDH	10,000	146	68		Polycarbonate	•	
Occupancy Sensor with Dimming High Bay							
HB7C4M-EUTOSD	11,750	146	80	Tempered Glass			•
HB1C4N-EUTOSD	11,500	146	79	Acrylic		•	
HB5C4N-EUTOSD	10,750	146	74		Acrylic	•	
HB0C4M-EUTOSD	10,750	146	73	Polycarbonate		•	
HB2C4M-EUTOSD	10,000	146	68		Polycarbonate	•	

Notes for all versions:

¹ Part numbers listed in the above table are cool white. For neutral white version replace the 4th character with N Ex: HB1C4N-EUH become HB1N4N-EUH

² When using oval/aisle output it is recommended that the stirrup bracket is used.

Notes for standard versions only:

³ Numbers listed in the tables above come with a flat lens. For models with flat lens they can be ordered with a polycarbonate dome lens; replace 3rd character with an L Ex: HB1C4N-EUH becomes HBLC4N-EUH

⁴ For junction box models; add a J after the 2nd character Ex: HB1C4N-EUH becomes HBJ1C4N-EUH (not applicable for 25,000 High Bay)

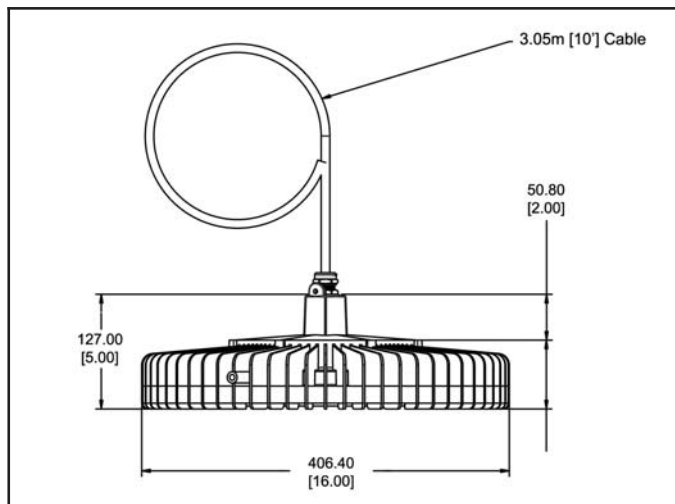
DuroSite® Series LED High Bay Fixture

Accessories

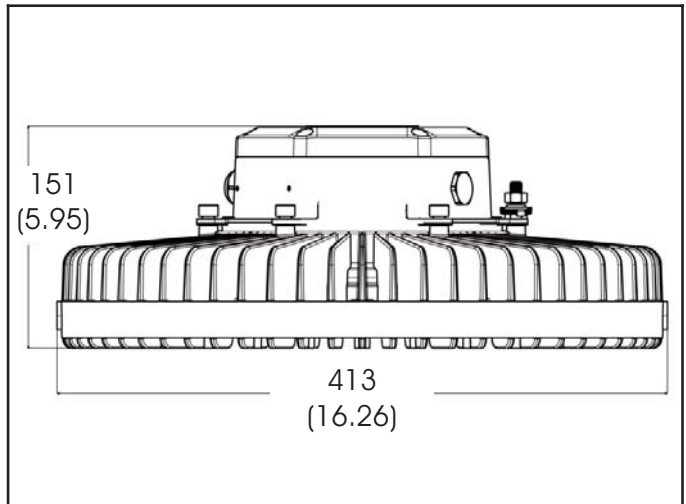
	Part Number	Description	Kit Includes	Compatibility	
				8,500 -17,500lm	25,000lm
	HBXW3	Swivel Bracket Grey powder coated aluminium (Interior or exterior use)	Swivel Bracket Bracket to fixture hardware	•	
	HBXGS-10	Glare Shield - sets of 10 Grey (RAL7001) powder coated spun aluminium (Interior use only, for use with flat lens options)	Aluminium shield and securing hardware	•	•
	HBXSBK	Sand Blast Cover	Sand blast cover	•	•
	HBXSBDK	Domed Sand Blast Cover	Domed Sand Blast cover	•	•

Mechanical Drawings

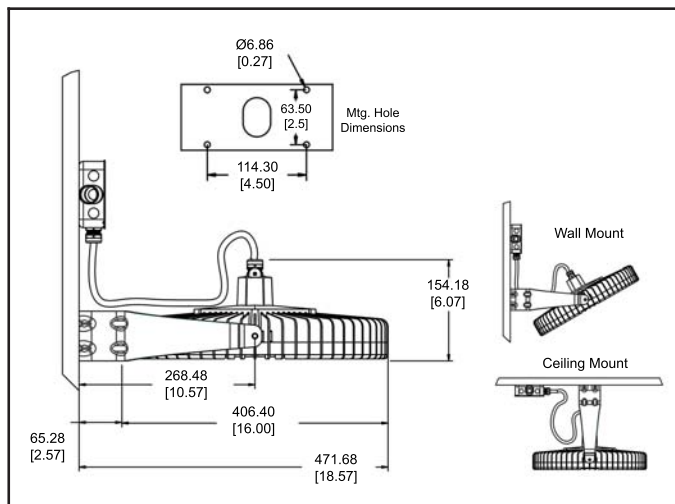
HBXX4X-EU



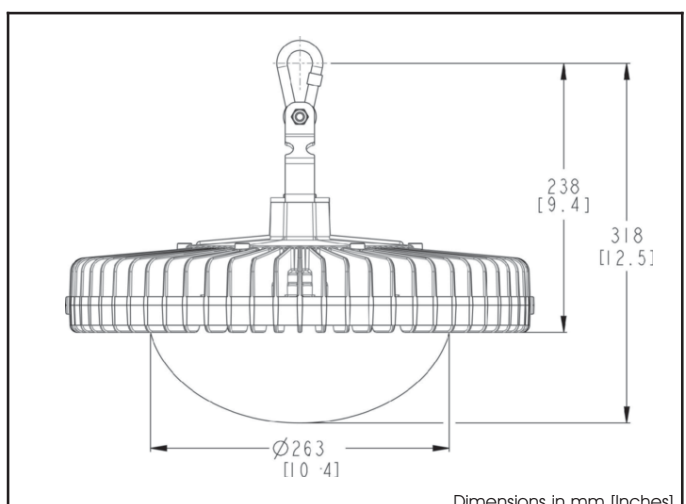
HBXX4X-EU



HBXW3 - Swivel Bracket



HBLX4X-EUH



Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDEXHBEU001.pdf

Warranty Statement: EXCEPT FOR THE WARRANTY EXPRESSLY PROVIDED FOR [HEREIN/ABOVE/BELOW], DIALIGHT DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NONINFRINGEMENT.

DuroSite® LED High Bay - CE Approved

for Indoor and Outdoor Industrial Applications



www.dialight.com

