Dialight

Vigilant® LED High Bay
for Indoor and Outdoor Industrial Applications

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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 CO_2 emissions.

History at a Glance

1938 →	Dialight founded in Brooklyn, NY
1971 →	LED Circuit Board Indicator
1994 →	LED Transit Vehicle Signals
1995 →	LED Traffic Signals
2000 →	FAA certified LED Obstruction Lights
2007 →	LED Lighting for Hazardous Locations
2009 →	LED High Bay Fixtures
2012 →	Full performance 10-year warranty
2013 →	Controls for LED Lighting
2014 →	125lm/W High Bay

Typical Applications

- Oil, Gas & Petrochemical
- Power Generation
- Mining
- Chemical
- Pharmaceutical
- Water & Sewage
- Food & Beverage
- Manufacturing
- Warehousing
- Cold Storage

View the full case studies at:

G.S. Dunn Limited - www.dialight.com/news/details/gsdunn_case_study
Rockline Industries - www.dialight.com/news/details/rockline_case_study
MedSafe - www.dialight.com/news/details/medsafe_case_study
Kuehne + Nagel - www.dialight.com/news/details/kuehne_nagel_case_study

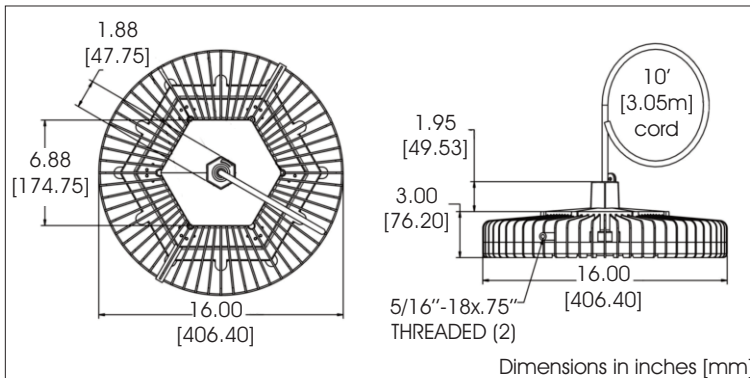## Dialight also offers their products for Hazardous Locations

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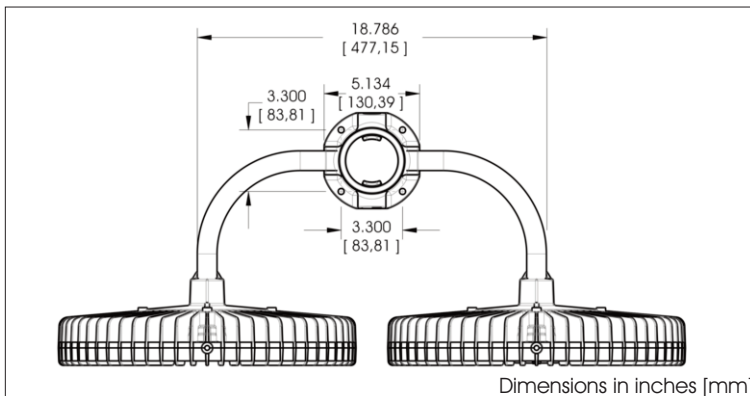
Dialight

Vigilant® LED High Bay
125 LPW

1.88 [47.75]
6.88 [174.75]
16.00 [406.40]

1.95 [49.53]
3.00 [76.20]
16.00 [406.40]
10' [3.05m] cord
5/16"-18x.75" THREADED (2)

Dimensions in inches [mm]

Dual Bracket

18.786 [477,15]
3.300 [83,81]
5.134 [130,39]
3.300 [83,81]

Dimensions in inches [mm]

Certifications & Ratings
- UL 1598/A
- CSA 22 #250
- CE
- NEMA 4X
- IP 66
- Dark Sky Compliant

Features & Benefits
- L70 rated for >100,000 hours @ 25°C
- 10 year full performance warranty
- Up to 125 LPW
- Dual Mounting option available
- For 347-480V AC applications, consult factory
- Significantly reduced glare
- Instant on/off
- Maintenance free
- Mercury free
- No UV or IR
- Resistant to shock and vibration

Application:

At 125 lumens per Watt, Dialight's new ultra-efficient industrial LED High Bay revolutionizes the world of LED lighting and is by far the most innovative LED fixture available today. With a market-leading 10 year full performance warranty, the new 26,500 lumen high bay utilizes cutting-edge optical and electrical design to provide for significantly reduced glare and superior light distribution.

In its compact and lightweight structure, Dialight's new 125 lumen per Watt LED High Bay is designed to meet the most demanding specifications and is perfect for any industrial application where improved light levels are needed at minimum energy consumption for more than a decade.

Mechanical Information

Fixture weight:	18 lbs
Shipping weight:	24 lbs
Mounting:	(1) 3/4" NPT - top (2) 5/16"-18 x .75" UNC - side
Cabling:	10' (3.5m) STOOW Power Cord

Electrical Specifications

Operating Voltage: 24,250-26,500lm: 16,500-18,000lm:	 110 - 277V AC 100 – 277V AC (For 347 - 480V AC application, consult factory)
Total system power consumption:	See Table
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 61000-3-2
Noise requirement / EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	Protection devices capable of handling up to 6kV. Tested at independent laboratory for 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
Power Factor:	> 0.9

Construction:

Housing:	Copper free aluminum
Finish:	Polyester powder coated gray RAL 7040
Lens:	Tempered glass

Photometric Information

CRI:	75
CCT:	5,000K (cool white) 4,000K (neutral white)

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

Vigilant® LED High Bay - Ordering Information

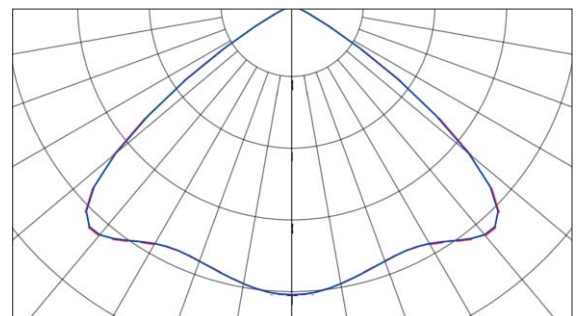| Part Number	Initial Fixture Lumens	Watt	Lumens Per Watt	CCT	UL-1598, IP-66, NEMA 4X CSA 22.2 #250, Marine Wet Locations	Safety Bracket	External Fuse	Lens	Optical Pattern	
									Circular	Wide
110 - 277V AC Models										
HEGMC4PN-SNG	26,500	212W	125	5,000K	•			Tempered Glass	•	
HEGRC4PN-SNG	26,500	212W	125	5,000K	•			Tempered Glass		•
HEGMN4PN-SNG	24,250	212W	114	4,000K	•			Tempered Glass	•	
HEGRN4PN-SNG	24,250	212W	114	4,000K	•			Tempered Glass		•
HEGMC4PN-SSG	26,500	212W	125	5,000K	•	•		Tempered Glass	•	
HEGRC4PN-SSG	26,500	212W	125	5,000K	•	•		Tempered Glass		•
HEGMN4PN-SSG	24,250	212W	114	4,000K	•	•		Tempered Glass	•	
HEGRN4PN-SSG	24,250	212W	114	4,000K	•	•		Tempered Glass		•
HEGMC4PN-SFG	26,500	212W	125	5,000K			•	Tempered Glass	•	
HEGRC4PN-SFG	26,500	212W	125	5,000K			•	Tempered Glass		•
HEGMN4PN-SFG	24,250	212W	114	4,000K			•	Tempered Glass	•	
HEGRN4PN-SFG	24,250	212W	114	4,000K			•	Tempered Glass		•
HEGMC4PN-SGG	26,500	212W	125	5,000K		•	•	Tempered Glass	•	
HEGRC4PN-SGG	26,500	212W	125	5,000K		•	•	Tempered Glass		•
HEGMN4PN-SGG	24,250	212W	114	4,000K		•	•	Tempered Glass	•	
HEGRN4PN-SGG	24,250	212W	114	4,000K		•	•	Tempered Glass		•
100 - 277V AC Models										
HEGMC4KN-SNG	18,000	144W	125	5,000K	•			Tempered Glass	•	
HEGRC4KN-SNG	18,000	144W	125	5,000K	•			Tempered Glass		•
HEGMN4KN-SNG	16,500	144W	114	4,000K	•			Tempered Glass	•	
HEGRN4KN-SNG	16,500	144W	114	4,000K	•			Tempered Glass		•
HEGMC4KN-SSG	18,000	144W	125	5,000K	•	•		Tempered Glass	•	
HEGRC4KN-SSG	18,000	144W	125	5,000K	•	•		Tempered Glass		•
HEGMN4KN-SSG	16,500	144W	114	4,000K	•	•		Tempered Glass	•	
HEGRN4KN-SSG	16,500	144W	114	4,000K	•	•		Tempered Glass		•
HEGMC4KN-SFG	18,000	144W	125	5,000K			•	Tempered Glass	•	
HEGRC4KN-SFG	18,000	144W	125	5,000K			•	Tempered Glass		•
HEGMN4KN-SFG	16,500	144W	114	4,000K			•	Tempered Glass	•	
HEGRN4KN-SFG	16,500	144W	114	4,000K			•	Tempered Glass		•
HEGMC4KN-SGG	18,000	144W	125	5,000K		•	•	Tempered Glass	•	
HEGRC4KN-SGG	18,000	144W	125	5,000K		•	•	Tempered Glass		•
HEGMN4KN-SGG	16,500	144W	114	4,000K		•	•	Tempered Glass	•	
HEGRN4KN-SGG	16,500	144W	114	4,000K		•	•	Tempered Glass		•

For 347 - 480V AC applications, consult factory

Optical Patterns

Circular Pattern
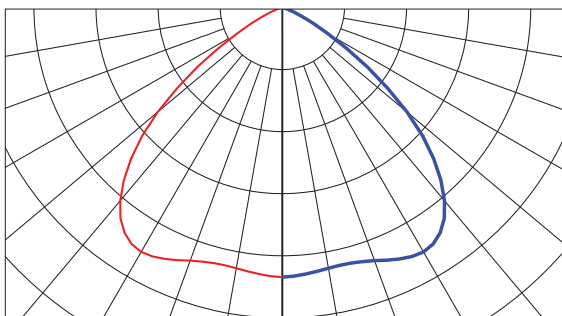
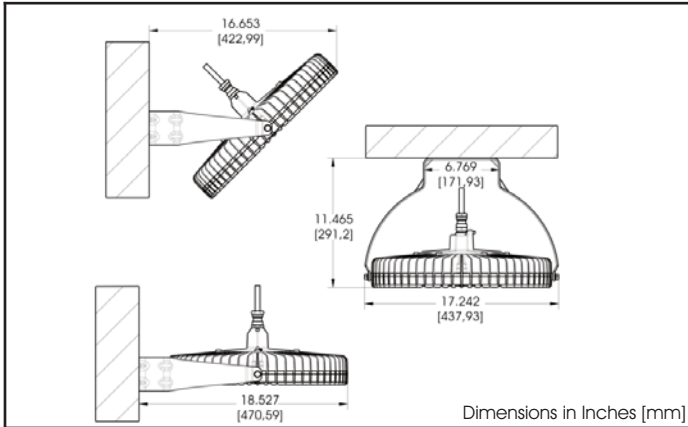### Wide Pattern

Vigilant® LED High Bay
Options and Accessories

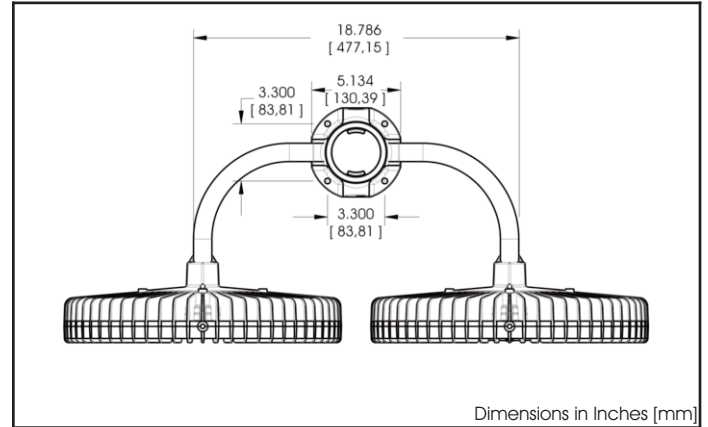|	Part Number	Description	Kit Includes
	HBXDUALBRCKT	Dual Bracket	Junction Box
	No Part Number	Pendant Mount (conduit supplied by installer)	Conduit supplied by installer
	HBXW2	Swivel Bracket and Cable Gland	Swivel Bracket Bracket to fixture hardware Cable Gland (1/2"), Reducer (3/4" to 1/2")
	HBXW3	Swivel Bracket	Swivel Bracket Bracket to Fixture Hardware
	HBXCU	Ceiling Mount	Swivel Hanger Cover 3" Conduit Nipple
	HBXCG	Cable Gland	Cable Gland (1/2") Reducer (3/4" to 1/2")
	HBXL	Loop (consult factory when using with occupancy sensor models)	Hanger Loop (GE LOOPM353)
	HBXH	Hook (consult factory when using with occupancy sensor models)	Hanger Hook (GE HOOKM353)
	HBXCAB48	48" Long Stainless Steel Safety Rope	5/32" Diameter Stainless rope with locking spring clip
	HBXTH347480[1]	Top hat with 347-480V isolated step down transformer (consult factory when using with hook or loop)	Top and bottom clam shell Conduit nipple 6' STOOW cable 347-480V step down transformer Fuse holder, 2 Fuses
	HBXLENGC	Tempered Glass	Lens, replacement clips, screws, gasket
	HBXREF22	22" Acrylic Reflector (must be ordered with High Bay, not a retrofit option)	Reflector, brackets, screws
	HBXDC	Dust Cover	Dust cover, clamp, spacer

[1]Top hat cannot be used with a mounting bracket
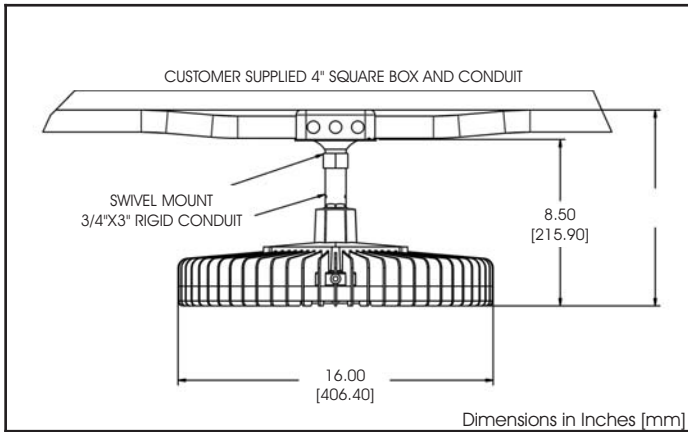
Vigilant® LED High Bay
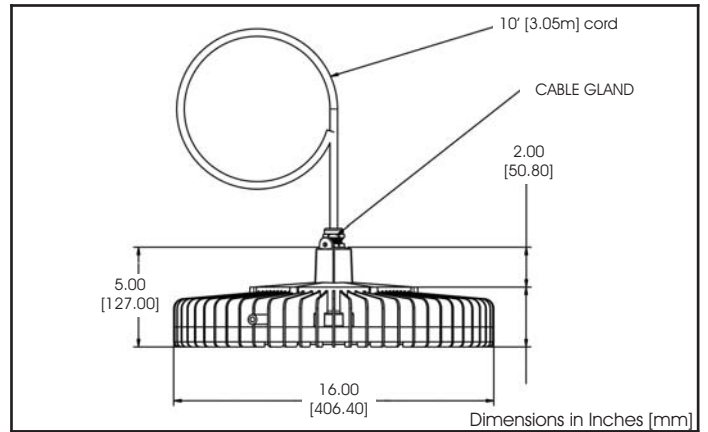## Options and Accessories

HBXW2 - Swivel Bracket and Cable Gland

16.653
[422,99]

6.769
[171,93]

11.465
[291,2]

17.242
[437,93]

18.527
[470,59]

Dimensions in Inches [mm]

HBXDUALBRCKT - Dual Bracket

18.786
[477,15]

5.134
[130,39]

3.300
[83,81]

3.300
[83,81]

Dimensions in Inches [mm]

HBXCU - Ceiling Mount

CUSTOMER SUPPLIED 4" SQUARE BOX AND CONDUIT

SWIVEL MOUNT
3/4"X3" RIGID CONDUIT

8.50
[215.90]

16.00
[406.40]

Dimensions in Inches [mm]

HBXCG - Cable Gland

10' [3.05m] cord

CABLE GLAND

2.00
[50.80]

5.00
[127.00]

16.00
[406.40]

Dimensions in Inches [mm]

HBXTH347480 - Top Hat (fixture sold separately)
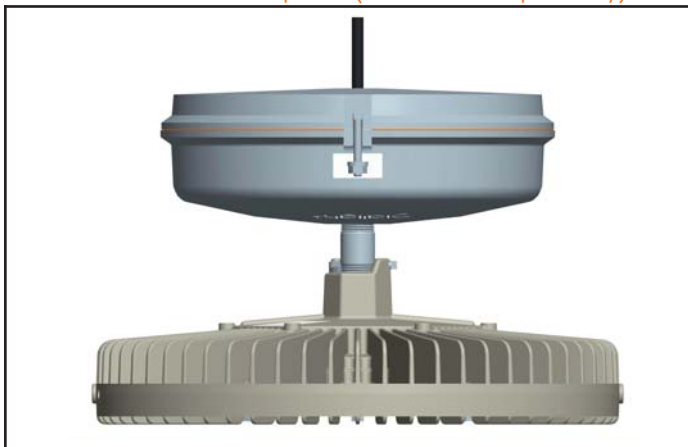
HEGMxxxx-SGG - Safety Bracket and Fuse Options

16
[406]

5.6
[142]

Dimensions in Inches [mm]
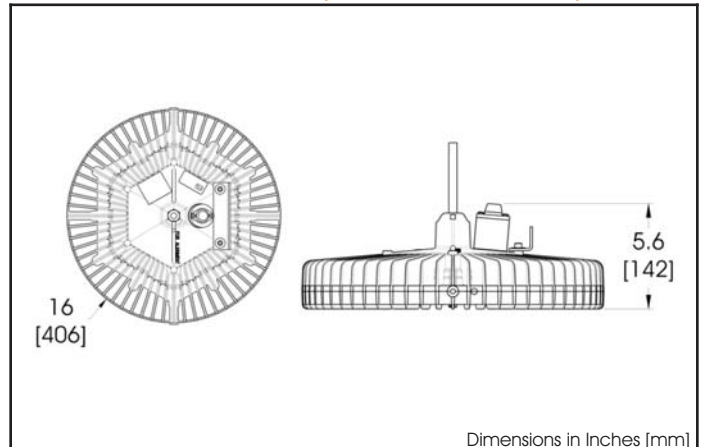
Vigilant® LED High Bay
Options and Accessories

HBXDC - Dust Cover

Dimensions in Inches [mm]

HBXREF22 - 22" Acrylic Reflector

22.39
[568.8]

8.85
[224.8]

12.36
[313,8]

Dimensions in Inches [mm]

MDEXHB125X001_C

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