

EXHIBIT H

IRFQ No. MAO2016841 – Ettie St. and Lake Merritt Pump Stations Electrical Lighting Replacement and Upgrades Services

Dialight





EXHIBIT H

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Vigilant® LED High Bay - UL for Indoor and Outdoor Industrial Applications

Vigilant® LED High Bay - UL

for Indoor and Outdoor Industrial Applications



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 vasity reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO₂ 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

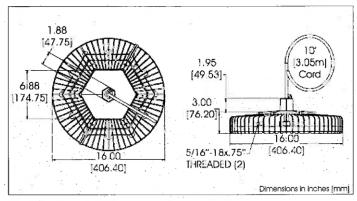
- · Oil, Gas & Petrochemical
- Power Generation
- Mining
- Chemical
- Pharmaceutical
- Water & Sewage
- Food & Beverage
- Manufacturing
- Warehousing
- Cold Storage

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



Patent pending

Vigilant® LED High Bay - UL



Certifications & Ratings

- UL 1598/A
- CSA 22 #250
- CE
- NEMA 4X
- P66 / 67
- Dark Sky Compliant

Features & Benefits

- 10 year full performance warranty
- L70 rated for >100,000 hours @ 25°C ambient
- 125 LPW
- Dual Mounting option available
- Significantly reduced glare
- Instant on/off
- Maintenance free
- Mercury free i
- No UV or IR
- Resistant to shock and vibration

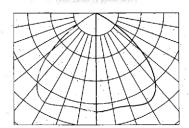
At 125 lumens per Watt, Dialight's new ultra-efficient industrial LED High Bay revolutionizes the world of LED lighting and is by far the most innovative LED fixture available today. With a market-leading 10 year full performance warranty, the new 26,500 lumen high bay utilizes cutting-edge optical and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

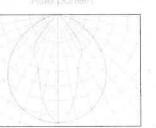
Mechanical Information	
Fixture Weight:	18 ibs (8.16kg)
Shipping Weight:	24 lbs (10.8kg)
Mounting:	(1) 3/4" NPT - top (2) 5/16"-18 x .75" UNC - side
Entries:	10' (3.05m) STOOW Power Cord
Electrical specifications	
Operating Voltage: 110 - 277V AC: 100 - 277V AC:	25,750 & 26,500im models 18,000, 14,000 & 11,000im models
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 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 aiuminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy prime
Lens:	Tempered glass
Photometric Information	
CRI:	75
CCT:	5000K (cool white) 4000K (neutral white)

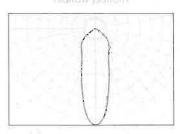
IES Files:

available at www.dialight.com

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





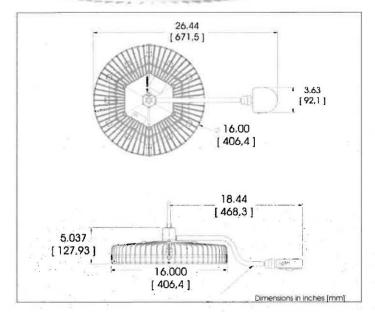


www.dialight.com

Light Distribution Pattern

Vigilant[®] LED High Bay - UL Occupancy Sensor Models





Mechanical, Electrical and Photometric information is the same as on page 3 except where detail is provided

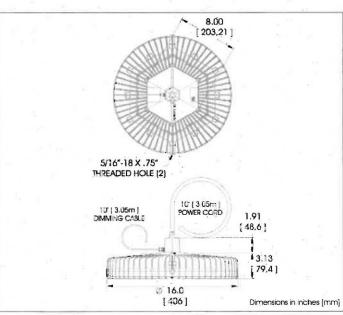
And a second	
Fixture Weight:	20 lbs (13.34kg)
Container Weight:	27 lbs (9.62kg)
Sensor Mounting:	Attached to the base of the neck using a semt-rigid flexible conduit
Occupancy Sensor:	Wet location wattstopper
Sensor Timing:	30 seconds to 20 minutes
Sensor Lens Options:	Comes complete with interchangeable lenses for multiple mounting heights and sensor paiterns
Operating Temperature:	-4D°F to +149°F (-40°C to +65°C)
Rating:	IP65

Features & Benefits

- No additional electrical connections required for installation
- Flexible conduit permitting the positioning of the occupancy sensor for optimal coverage
- Interchangeable sensor lens for high bay, low bay, or aisle application

Variable Dimining Models





Mechanical, Electrical and Photometric Information is the same as on page 3 except where detail is provided

Variable Dimming Cable:	Two conductor cable
Power Cable:	Three conductor cable
Dimming Cable Position:	Side of the neck through a cable gland
Variable Dimming Control;	0-10V DC
Dimming Range:	10V DC = 100% light output

Features & Benefits

- 10' plenum rated dimming control cable pre-installed
- Dimming cabling independent of fixture wiring
- Multiple High Bays can be connected to the same dimmer

Vigilant® LED High Bay - UL - Ordering information

Forb		-		Wet				Optical Pattern			
Part number	Lumens	Wattage	per Wall	Locations	Vollage	69		Medium	Wate	Alake	Nanov
				S o	indatd Models						
HEGMC4PN-SNG	26,500	212	125	IP66	110 - 277V AC	5000K (cool white)	lensend (just	2	[
HEGRC4PN-SNG	26,500	212	125	IP66	110 - 277V AC	5000K (cool white)	Temponica prata				
HEGEC4PN-SNG	25,750	204	125	IP66	110 - 277V AC	5000K (cool white)	antogend your				
HEGNC4PN-SNG	26,500	212	125	IP66	110 -277V AC	5000K (ccol white)	Sempered gans				-
HEGMC4KN-SNG	18,000	144	125	IP66	100 - 277V AC	5000K (cooi white)	Tempered gram	×.			
HEGRC4KN-SNG	18,000	144	125	IP66	100 - 277V AC	5000K (cooi white)	Support (pais		×		
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HEGNC4KN-SNG	18,000	144	125	IP66	100 - 277V AC	5000K (cool white)	Terrosing and				
HEGMC4GN-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cool white)	Training and				
HEGRC4GN-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cooi white)	Tempered grass		-		
HEGEC4GN-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cool white)	Tempered paul			1.05	
HEGNC4GN-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cool white)	Surplyment (school	1.0			- - 140
HEGMC4DN-SNG	11,000	88	125	IP66	100 - 277V AC	5000K (cool white)	lémicentel grass				
HEGRC4DN-SNG	11,000	88	125	IP66	100 - 277V AC	5000K (cocl white)	Tempered grass				
HEGEC4DN-SNG	11,000	88	125	IP66	100 - 277V AC	5000K (cooi white)	Tempalaa glas		10		
	1	a star or sector.		;	100 - 277V AC			1. K. J.C			
HEGNC4DN-SNG	11,000	. 88	125	IP66	Lini	5000K (cool white)	Sendered Sale	<u>Liiii</u>	J		
				Occupy	andy Service Models	and the second second		T			
HEGMC1PM-SNG	26,500	212	125	IP65	110 - 277V AC	5000K (cool white)	Tempered grow				1
HEGRC1PM-SNG	26,500	212	125	IP65	110 - 277V AC	5000K (cool white)	Service of dam	1	1		5
HEGMC1KM-SNG	18,000	144	125	IP65	100 - 277V AC	5000K (cool white)	Strippered (priss)		· ·		
HEGRC1KM-SNG	18,000	144	125	IP65	100 - 277V AC	5000K (cool white)	िसार्ग्यक्रस्ट के कि				
HEGMC1GM-SNG	14,000	112	125	IP65	100 - 277V AC	5000K (cool white)	Tempered giose	×	· · ·		
HEGRC1GM-SNG	14,000	112	125	IP65	100 - 277V AC	5000K (cool white)	Sempered glass	-	+		
HEGMC1 DM-SNG	11,000	88	125	IP65	100 - 277V AC	5000K (cool white)	lemonical gross	1.16			
HEGRC1DM-SNG	11,000	88	125	IP65	100 - 277V AC	5000K (cool white)	Tamperied grout	1.1			
				Variable	e Dimining Models						10.91
HEGMC4PD-SNG	26,500	212	125	IP66	110 - 277V AC	5000K (cool white)	terripered grass		A		
HEGRC4PD-SNG	26,500	212	125	IP66	110 - 277V AC	5000K (cool white)	Removaled glass			÷	2
HEGMC4KD-SNG	18,000	144	125	IP66	100 - 277V AC	5000K (cool white)	Termenett graa			1 A A	
HEGRC4KD-SNG	18,000	144	125	IP66	100 - 277V AC	5000K (cool white)	Tempered picture	11 1			т.,
HEGMC4GD-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cool white)	Tempered gloss?				
HEGRC4GD-SNG	14,000	112	125	IP66	100 - 277V AC	5000K (cool white)	Tempered data				17.1
HEGMC4DD-SNG	11,000	88	125	IP66	100 - 277V AC	5000K (cool white)	Tempered grass		×.,		
HEGRC4DD-SNG	11,000	88	125	IP66	100 - 277V AC	5000K (cool white)	temperati giasi	1	11.9		1
				Potw	elwash Models						
HEGMC4PN-SPG	26,500	212	125	1000 PSI	110 - 277V AC	5000K (cooi white)	Semo-and grave			1.1.1	
HEGRC4PN-SPG	26,500	212	125	1000 PSI	110 - 277V AC	5000K (cool white)	Secularity treasures			11 ¹ 2 1	
HEGMC4KN-SPG	18,000	144	125	1000 PSI	100 - 277V AC	5000K (cool white)	tenspered grass			34	а
HEGRC4KN-SPG	18,000	144	125	1000 PSI	100 - 277V AC	5000K (cool white)	lemperad grass				
HEGMC4GN-SPG	14,000	112	125	1000 PSI	100 - 277V AC	5000K (cool white)	· Tempered post-		1	-	
HEGRC4GN-SPG	14,000	112	125	1000 PSI	100 - 277V AC	5000K (cool white)	lumoskad glass	•	1.16		
HEGMC4DN-SPG	11,000	88	125	1000 PSi	100 - 277V AC	5000K (cooi white)	tempered glass	• • •			
		88	125	1000 PSI	100 - 277V AC	5000K (cool white)			2. 2.		

All models shown in the table are cool white, for models in Neutral White, 4000K CCT, replace the 5th character with a N. Ex: HEGM_4PN-SNG becomes HEGM_4PN-SNG. Deduct 5% from lurnen values when specifying notated international and the second se

(15)

All models show in the above table come with an internal fuse. For models needing an external fuse, replace the 10th character with a E. Ex: HEGMC4PN-SNG becomes HEGMC4PN-SEG. [Fixture will be listed damp location only with internal fuse]

location only with internal fuse) For models needing both satety bracket & fuse, replace the 10th character with a G. Ex: HEGMC4PN-SNG becomes HEGMC4PN-SGG. Parl numbers with occupancy sensor that will be installed with hook or loop (HBXH or HBXL) accessories will require a counter balance installed prior to shipment. Replace the 10th character with a G. Ex: HEGMC4PN-SNG becomes HEGMC4PN-SNG. Part numbers listed in the tables above come with a giass lens. For models needing a polycarbonate dome lens, replace the 3rd character with a L Ex: HEGMC4PN-SNG becomes HELMC4PN-SNG (deduct ~11% from lumens). For models needing a polycarbonate fait iens, replace the 3rd character with a J. Ex: HEGMC4PN-SNG becomes HELMC4PN-SNG (deduct ~11% from lumens). For models needing a polycarbonate fait iens, replace the 3rd character with a J. Ex: HEGMC4PN-SNG becomes HELMC4PN-SNG (deduct ~3% from lumens). For models needing a acrylic lens, replace the 3rd character with a J. Ex: HEGMC4PN-SNG becomes HELMC4PN-SNG (deduct ~3% from lumens). Dome & acrylic lens not available on power wash models, please use glass or flat polycarbonate. For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/DLC

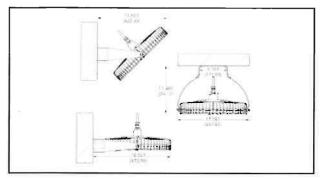
Vigilant® LED High Bay - UL - Options and Accessories

	Part Number	Description	KIT includes
		Sofety cable	
\sim	HBXDUALBRCKT	Dual Bracket	Junction Box
Pa	HBXW2	Swivel Bracket and Cable Gland	Swivel Bracket, Bracket to fixture hardware, Cable Gland (1/2"), Reducer (3/4" to 1/2")
8	НВХѠЗ	Swivel Bracket	Swivel Bracket Bracket to Fixture Hardware
jøs-a	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)
2	HBXH	Hook (consult factory when using with occupancy sensor models)	Hanger Hook (GE HOOKM353)
0	HBXCAB48	48" Long Stainless Steel Safety Rope	3/32" Diameter Stainless rope with locking spring clip
	HBXTH347480	Top hat with 347-480V isolated step aown transformer, IP 66 rated (consult factory when using with hook or loop)	Top and bottom clarn shell, conduit nipple 6' STOOW cable, 347-480V step down transformer, Fuse holder, 2 Fuses
\bigcirc	HBXLENGC	Tempered Glass	
	HBXLENAC	Acrylic Lens, Clear	
	HBXLENAD	Acrylic Lens, Diffused	Lens, replacement clips, screws, gasket
	LBXLENP	Replacement Dome Lens	
	HBXREF22	22" Acrylic Reflector (must be ordered with High Bay, not a retrofit option)	Reflector, brackets, screws
	HBXDC	21° slope dust cover	
	HBXDC45	45° slope dust cover	Dust cover, clamp, spacer
	HBXDC60	60° slope dust cover	
D	HBXW3-SSL-316	316 Stainless Steel Swivel Bracket	Stainless Steel Swivel Bracket and
alling	HBXW3-SSL-304	304 Stainless Steel Swivel Bracket	Stainless Steel Mounting Hardware

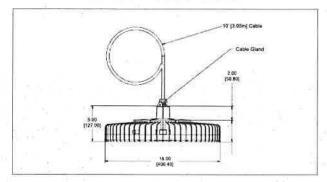
Top hat cannot be used with a mounting bracket

Vigilant® LED High Bay - UL - Options and Accessories Drawings

HBXW2 - Swivel Bracket and Cable Gland



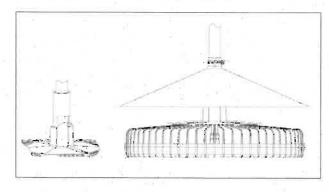
HBXCG - Cable Gland



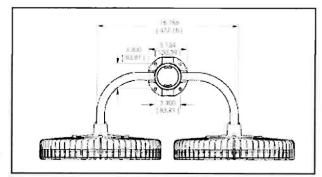
HBXTH347480 - Top Hat (fixture sold separately)



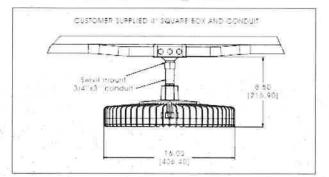
HBXDC - Dust Cover



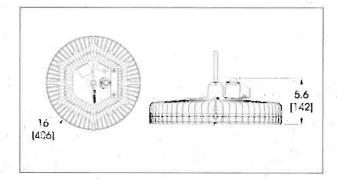
HBXDUALBRCKT - Dual Bracket



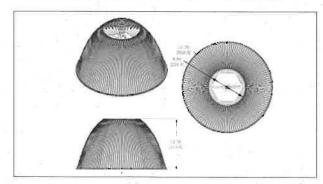
HBXCU - Celling Mount



HEGMxxxx-SGG - Safety Bracket and Fuse Options



22" Acrylic Reflector - Consult factory



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 of: www.dialight.com/Assets/Biochures_And_Catalogs/Itumination/MDEXHB125X001.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 WARRANTES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT.

Vigilant[®] LED High Bay - UL for Indoor and Outdoor Industrial Applications



GE Lighting

Evolve" LED Area Light

Scalable Wall Pack (EWS2)





imagination at work

Product Features

The GE Evolve™ LED Scalable Wall Pack is optimized for customers looking for an efficient and reliable LED solution for wall mounted, site, area and general lighting applications.

Depending on the application, Evolve™ LED Scalable Wall Pack can yield up to a 75% reduction in system energy consumption compared with standard HID systems. This reliable system operates well in cold temperatures and offers more than 11 years of service life to reduce maintenance frequency and expense, based on a 50,000 hour rated life and 12 hours of operation per day. Containing no mercury or lead, this environmentally responsible product is RoHS compliant.

Applications

 Wall mounted, site, area and general lighting utilizing an advanced LED optical system providing uniformity, vertical light distribution, reduced offsite visibility, reduced on-site glare and effective security light levels.

Housing

- Die-cast aluminum housing.
- Sleek architectural design incorporating a heat sink directly into the unit ensuring maximum heat transfer and long LED life.
- Meets 1.5 G vibration standards per ANSI C136.31-2010.

LED & Optical Assembly

- Structured LED array for optimized area light photometric distribution.
- Evolve™ LED light engine utilizes reflective technology to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 4000K & 5000K typical.
- LM-79 tests and reports are performed in accordance with IESNA standards.

Lumen Maintenance

 System rating is L85 at 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours.

Ratings

- B listed, suitable for wet locations.
- 🚯 listed with option code "J" SKUs.
- IP 65 rated optical enclosure per ANSI C136.25-2009.
- Title 24 compliant with motion sensor option.
- Temperature rated at -40° to 50°C. (35°C at high wattage 91W SKU).
- Upward Light Output Ratio (ULOR) = 0
- DLC Listed

Mounting

 Flush wall mount to "J" Box with inspection hole for IP 65.

Finish

- Corrosion resistant polyester powder paint, minimum 2.0 mil. thickness.
- Standard colors: Black and Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%*.
 Integral surge protection:
- Exceeds ANSI C136.2-2015 "Basic" (6kV/3kA) (120 strike)
- EMI: FCC Title 47 CFR Part 15 Class A.
- Motion sensor with dimming capability available with "H" option code.

* System THD <26% for 347-480v supply with A7 power level.

Ordering Number Logic Scalable Wall Pack (EWS2)

EWS2

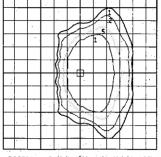


PROD, ID	VOLTAGE POWE		LED COLOR TEMP	PE FUNCTION	COLOR	OPTIONS	
E = Evolve W = Walipack S = Scalable 2 = Product Generation	0 = 120-277 H = 347-480 1 = 120* 2 = 208* 3 = 240* 4 = 277* 5 = 480* D = 347* *Specify single voltage only if fuse option is selected.	D1 = Asymmetric Forward E1 = Asymmetric Medium	40 = 4000K 50 = 5000K	1 = None NOTE: Select "H" Option for PE functionality with Motion-Sensing Dimming Control.	BLCK = Black DKBZ = Dark Bronze GRAY = Gray WHTE = White Contact manufacturer for other colors.	F = Fusing H = Motion Sensor* J = cUL/Canada XXX = Special Options * Option H only available in 120-277V. Reference pag lunder H Motion Sensing Of for more details.	

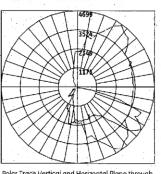
A7	D1	3,100.	3,100	29	34	EWS2_A7D140120-277V.IES	EWS2_A7D140347-480V.IES	EWS2_A7D150120-277V.IES	EWS2_A7D150347-480V.IES	1-0-1
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87	D1	3,900	3,900	- 39	44	EWS2_B7D140120-277V.IES	EWS2_B7D140347-480V.IES	EWS2_B7D150120-277V.IES	EWS2_B7D150347-480V.IES	-1-0-1
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C/	£1	4,900	4,900	51	55	EWS2_C7E140120-277V.IES	EWS2_C7E140347-480V.IES	EWS2_C7E150120-277V.IES	EWS2_C7E150347-480V.IES	1-0-1
D3	D1	6,700	6,700	70	70	EWS2_D3D	140IES	EWS2_D3D1	50IES	1-0-1
05	E1	7,000	7,000	- 70	70	EWS2_D3E1	140IES	'EWS2_D3E1	50IES	2-0-1
B	D1	8,400	8,400	91	91	EWS2_E3D1	140!ES	EWS2_E3D1	50IES	2-0-2
	E1	8,500	8,500	91	91	EWS2_E3E1	140IES	EWS2_E3E1	50IES	2-0-1

Photometrics

EWS2 - Asymmetric Forward (D1) 8400 Lumens, 5000K (EWS2_E3D150



Grid Distance in Units of Mounting Height at 12' Initial Footcandle Values at Grade

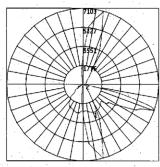


Polar Trace Vertical and Horizontal Plane through Horizontal Angle of Maximum Candlepower

EWS2-Asymmetric Medium (E1) 8500 Lumens, 5000K (EWS2 E3E150 (ES)

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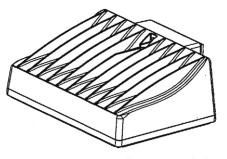
Grid Distance in Units of Mounting Height at 12' Initial Footcandle Values at Grade

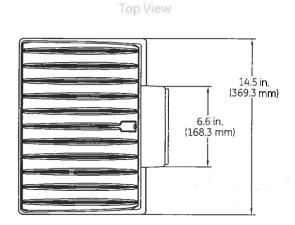


Polar Trace Vertical and Horizontal Plane through Horizontal Angle of Maximum Candlepower

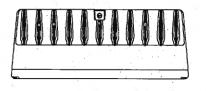
Product Dimensions

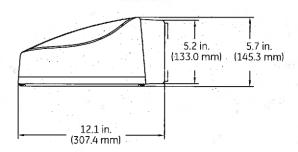
Top/Side View



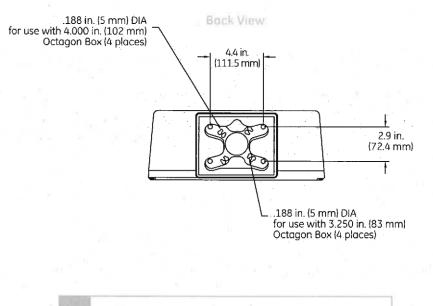


Front View





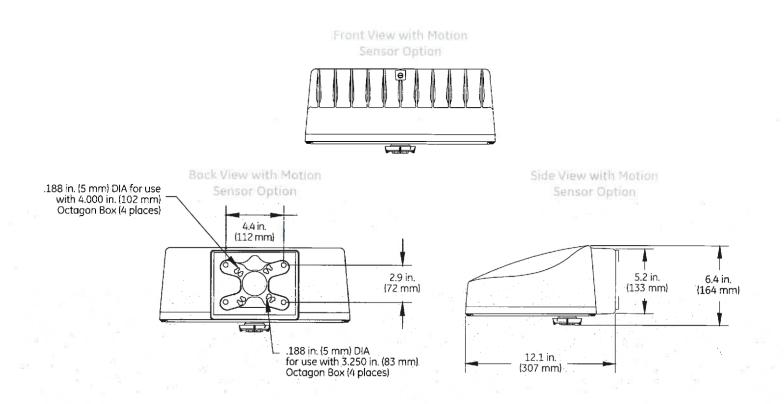
Side View



ATA

Approximate Net Weight: 21 lbs (9.53 kgs)

Product Dimensions

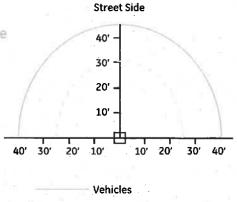


H-Motion Sensing Option:

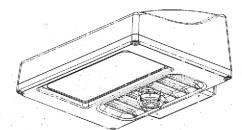
- Intended for 8-25ft mounting heights.
- Provides a coverage area radius for walking motion of 25-30ft.
- Provides 180° of coverage (~180° is blocked by the wall).
- Factory preset to 50% dimming with no occupancy.
- May be reprogrammed using additional remote programmer. Remote Programmer part number: WS FSIR-100 PROGRAMMER (197634)
- Photoelectric control is integrated through the motion sensor, and is offered as standard.

Sensor Pattern:

Sensing Pattern Wall Pack Fixture Up to 25ft.



Pedestrians





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OLP3092 (Rev 09/23/15)

Dialight





DuroSite® LED Low Bay - UL for Indoor and Outdoor Applications



Patent Pending

DuroSite® LED Low Bay



Features & Benefits

- L70 rated for >100,000 hours @ 25°C ambient
- 5 & 10 year full performance warranty
- Up to 84 Im/W
- Significant energy savings
- Low profile versus traditional HID fixtures
- 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 aluminum
- Typical payback < 2 years

View the full case studies at:

FOX3 Parking Garage - www.dialight.com/News/Details/fox31_case_study

City of London Parking Garage - www.dialight.com/News/Details/city_of_london_corp

Milwakee Airport - www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/Case_study_Milwaukee_Airport.pdf

Lanxess - www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/LANXESS_Case_Study.pdf

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

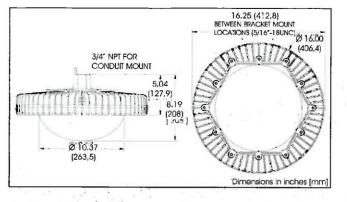
www.dialight.com

Typical Applications

- Parking Structures
- Cold Storage
- Warehouse
- Walkways
- Manufacturing
- Fuel Pump Canopy



DuroSite® LED Low Bay Fixture



Certifications and Ratings

- UL1598/A (wet locations)
- CSA C22.2 No. 250.0-08 UL8750
- . IP66 (IEC 60529)
- NEMA 4X

ANSI C 136.15-2011

Application: Dialight's Durosite* LED low bay fixture 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 parking decks, garages, cold storage and other applications with mounting heights up to 20 feet.

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.

Mechanical Information	
Fixture Weight:	18 lbs (8.2 kg)
Shipping Weight:	24 lbs (10,92 kg)
Mounting:	(1) 3/4" NPT or (2) 5/16"-18 x .75" UNC
Electrical specifications	
Operating Voltage:	100-277V AC, 50/60 Hz
Total System Power Consumption:	45W / 80W / 140W
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Noise Requirements/ EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Harmonics:	EN61000-3-2
Transient Protection:	1 kV line to fine 2 kV line to ground
THD:	<20%
Power Factor:	> 0.9
Construction	
Body:	Powder coated aluminum
EPA:	0.60
Finish:	Epoxy polyester powder coated for superior corrosion resistance
Lens:	Polycarbonate
Photometric Information	
CRI:	70
CCT:	5000k (cool white) 4000k (neutral white)
All wat use the load unloss of	thomas stated

All values typical unless otherwise stated All lumen values are typical (iderance +/- 10%)

	cadeling code.					()	A CALL N	
	Part Number	Wartanty	Floture Lumens	Wattage	Lumens Per Watt	CCI	Occupancy Sensor	Variable Dimming
(4)	LBW1C1A	5 yr	4,250	54	78	5000K (cool white)		
	LBWINIA	5 yr	4,250	54	78	4000K (neutral white)		
	LBW1C2A	5 yr	4,250	54	78	5000K (cool white)		
	LBW1N2A	5 yr	4,250	54	.78	4000K (neutral white)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LBW1C5A	5 yr	4,250	54	78	5000K (cool white)		
	LBW1N5A	5 yr	4,250	54	78	4000K (neutral white)	1	a second
بالمعاد	LBW1C1D	5 yr	6,000	80	75	5000K (cool white)		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(4)(5)	LBWINID	5 yr	6,000	80	75	4000K (neutral white)		
	LBW1C2D	5 yr	6,000	80	75	5000K (cool white)	a.	
	LBW1N2D	5 yr	6,000	80	.75	4000K (neutral white)		A
	LBW1C5D	5 yr	6,000	80	75	5000K (cool white)		
	LBW1N5D	5 yr	6,000	80	75	4000K (neutral white)		
	HBWC4L	10 yr	8,500	107	79	5000K (cool white)		
	HBWN4L	10.yr	8,500	107	79	4000K (neutral white)		

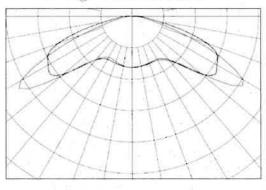
Part numbers with occupancy sensor that will be installed with Hook or Loop (HBXH or HBXL) accessories will require a counter balance installed prior to shipment. Add - CB to the end of the part number, Example LBW1C2D will become LBW1C2D-CB. Please consult with customer service when ordering For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/DLC

DuroSite® LED Low Bay Fixture

Options and Accessories

		Parl Number	Description	Kit Includes
		No Part Number	3/4" NPT pendant mount (conduit supplied by installer)	Conduit supplied by installer
	B	HBXW2	Swivel bracket and cable Gland	Swivel bracket Bracket to fixture hardware Cable gland (1/2") Reducer (3/4" to 1/2")
million I		НВХЖЗ	Swivel bracket	Swivel bracket Bracket to fixture hardware
T		HBXCU	Ceiling mount	Swivel hanger cover 3" Conduit nipple
1	H	HBXCG	Cable gland	Cable gland (1/2") Reducer (3/4" to 1/2")
1 Contraction		HBXL	Loop	Hanger loop (GE LOOPM353)
T	ſ	HBXH.	Hook	Hanger hook (GE HOOKM353)
TO .		LBXLENP	Replacement dome Lens	Lens Replacement screws Gasket

Light Distribution

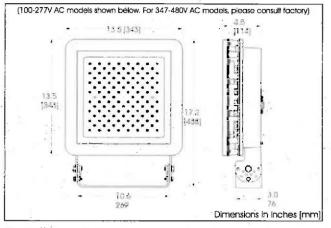


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Dialight



DuroSite[®] LED Floodlight



Certifications & Ratings

- UL1598/A
- CSA 22.2 NO. 250
- NEMA 4X
- IP 66/67
- IK07

Features & Benefits

- 10 year full performance warranty
- L70 rated for >100,000 hours @ 25°C ambient
- DLC listed
- Instant on/off operation
- Universal input (100-277V AC, 50/60Hz or 347-480V AC, 60Hz)
- Superior color rendition index compared to HPS, LPS, MV
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Factory sealed
- Isolated wiring compartment
- Integra! Safety Straps

Application:

The DuroSite[®] LED Floodlight represents the future of energy efficient facility I!!umination for industrial applications worldwide. The lighting fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.

Mechanical Information

and the second second	
Fixture Weight: 100-277V AC:	27 lb (12 kg) 30 lb (14 kg) (15,000 - 13,500lm models)
347-480V AC:	30 lb (14 kg)
Shipping Weight: 100-277V AC:	31 lb (14 kg) 34 lb (16 kg) (15,000 - 13,500lm models)
347-480V AC:	34 lb (16 kg)
EPA (Sq.ft):	0.55 sq.ft
Mounting:	304 Stainless Steel trunnion mounting bracket included
Entry:	(2) 3/4" NPT cable entry
Electrical specifications	
Operating Voltage:	100-277V AC, 50/60Hz 347-480V AC, 60Hz
Power Consumption:	See table
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Noise Requirements/ EMC:	EN 55015 - conducted and radiated FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge Protection:	Verified up to 6kV/20hms at an independent test laboratory Protection devices capable of 20kV
THD:	<15% typical (<20% maximum)
Power Factor:	> 0.9
Construction	
Housing:	Powder coaled copper free aluminum
Finish:	Polyester / Epoxy powder coat gray RAL 7040 for superior corrosion resistance
Lens:	Tempered glass
Photometric Information	
CRI:	70
CCT:	5000K (cool white)
NEMA Patterns:	7x6 - Asymmetrical (140° x 115°) 6x7 - Asymmetrical (115° x 140°) 6 - Very wide (115°) 5 - Wide (93°) 4 - Medium (52°) 2 - Narrow (23°)
IES Files:	available at www.dialight.com
TANK INTERVISED IN PROCEEDING INTO ANY LODGED AND ANY	

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



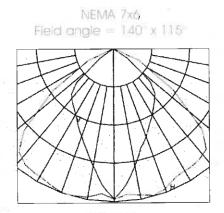
DuroSite® LED Floodlight

Ordering information

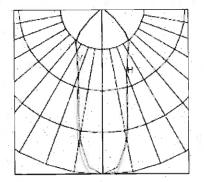
	Part Number	Optical Pattern	Vollage	Color	Fixture Lumens	Wattage	Lumens Per Watt						
	100 - 277V AC Models												
	FLW466NC4NG	Nema 6, field angle 115°	100 - 277V AC	5000K (cool white)	15,000	140	107						
	FLW476NC4NG	Nema 7x6, field angle 140° x 115°	100 - 277V AC	5000K (cool white)	14,750	140	105						
	FLW467NC4NG	Nema 6x7, field angle 115° x 140°	100 - 277V AC	5000K (cool white)	14,750	140	105						
	FLW455NC4NG	Nema 5, field angel 93°	100 - 277V AC	5000K (cooi white)	14,500	140	104						
	FLW444NC4NG	Nema 4, fieid angle 52°	100 - 277V AC	5000K (cool white)	14,500	140	104						
	FLW422NC4NG	Nema 2, field angle 23°	100 - 277V AC	5000K (cool white)	13,500	140	96						
	FLW276NC2NG	Nema 7x6, field angle 140° x 115°	100 - 277V AC	5000K (cool white)	11,500	109	105						
	FLW267NC2NG	Nema 6x7, field angle 115° x 140°	100 - 277V AC	5000K (coo! white)	11,500	109	105						
5)	FLW266NC2NG	Nema 6, field angle 115°	100 - 277V AC	5000K (cool white)	11,250	109	103						
51	FLW255NC2NG	Nema 5, field angel 93°	100 - 277V AC	5000K (cool white)	11,000	109	101						
	FLW244NC2NG	Nema 4, field angle 52°	100 - 277V AC	5000K (cool white)	10,500	109	96						
	FLW222NC2NG	Nema 2, field angle 23°	100 - 277V AC	5000K (cool white)	10,750	109	99						
	347 - 480v AC Models												
	FLW276NC5NG	Asymmetrical (140° x 115°)	347 - 480V AC	5000K (cool white)	11,750	113	104						
	FLW266NC5NG	Very Wide (115°)	347 - 480V AC	5000K (cool white)	11,250	113	100						
	FLW255NC5NG	Wide (93°)	347 - 480V AC	5000K (cool white)	10,000	112	89						
	FLW244NC5NG	Medium (52°)	347 - 480V AC	5000K (cool white)	10,000	112	89						
	FLW222NC5NG	Narrow (23°)	347 - 480V AC	5000K (cool white)	10,000	112	89						

Part numbers listed in the above table are powder coated gray. For bronze powder coat, replace the 10th character with <u>Z</u>. FLW244NC2<u>NG</u> becomes FLW244NC2<u>ZG</u>

For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/DLC



NEMA 5 Field angle = 93

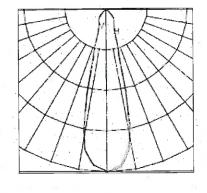


Optical Patterns

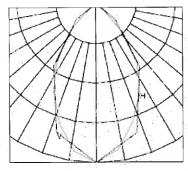
NEMA 6x7

Field angle = 115° x 140°

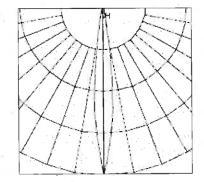
NEMA 4 Field angle = 52



NEMA 6 Field angle = 115°



NEMA 2 Field angle = 23°



DuroSite® LED Floodlight - Mounting Options

	Part Number	Description Safety Cable Kit	kit Includes					
2								
\bigcirc	HZXSAFECBLS	Safety cable Kit	2 Safety cables					
		Tenon adapter (Bronze)						
	FLX-1TPT-20DB	Tenon pole topper, 2-3/8" mount	Tenon topper, pole set screws, and mounting hardware					
ويغابب والبيانية والبها		Stanchion Mount Junction Box (Grey)						
	HZXSTAN100S	1.00" (1.315" Pole OD) Slip-fit stanchion mount junction box						
	HZXSTAN125S	1.25" (1.660" Pole OD) Slip-fit stanchion mount junction box						
- B	HZXSTAN150S	1.50" (1.900" Pole OD) Slip-fit stanchion mount junction box	hundian boy					
and the second s	HZXSTAN200S	2.00" (2.375" Pole OD) Slip-fit stanchion mount junction box	Junction box Mounting hardware					
	HZXSTAN100T	1.00" NPT (1.315" Pole OD) Threaded stanchion mount junction box	Cable gland					
	HZX\$TAN125T	STAN125T 1.25" NPT (1.660" Pole OD) Threaded stanchion mount junction box						
e	HZXSTAN150T	STAN150T 1.50" NPT (1.900" Pole OD) Threaded stanchion mount junction box						
	HZXSTAN200T	2.00" NPT (2.375" Pole OD) Threaded stanchion mount junction box	1					

Brackets and adapters below require either tenon adapter (FLX-11PT-20DB) or stanchion mount junction box (HZXSTAN200S) to mount floodlight. Tenon adapter and stanchion mount junction box sold separately.

	Part Number	Description	Kil includes			
	M Row	Right Angle Bracket (Bronze)				
	FLX-1RAB-20DB	Right angle mounting bracket for 2-3/8" light mount	Right angle bracket			
		Bull Horn Bracket (Bronze)	a line in			
4	FLX-2LBH-20DB	FLX-2LBH-20DB Bull horn for 2 lights, 2-3/8" mount, 26" spacing				
Y	FLX-3LBH-20DB	Bull hom for 3 lights, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
للمل	FLX-4LBH-20DB	Bull hom for 4 lights, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
X	FLX-4RBH-20DB	Bull horn for 4 lights in star configuration, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
		Round Square Round Bracket (Bronze)	Tang Strange			
	FLX-2RSR-20DB	Round square round bracket for 2 lights, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
i i	FLX-3RSR-20DB	Round square round bracket for 3 lights, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
1 de la constante	FLX-4RSR-20DB	Round square round bracket for 4 lights, 2-3/8" mount, 26" spacing	Bull horn Pole set screws			
THE DAY DO NOT THE OWNER		Round Terion Adapter (Branze)				
	FLX-3RPA-20DB	Reducer for 3" OD round pole top to 2-3/8" light mount	Reducer Pole set screws			
	FLX-4RPA-20DB	Reducer for 4" OD round pole top to 2-3/8" light mount	Reducer Pole set screws			
the second second	15 T	Square Tenon Adapter (Bronze)				
1	FLX-4SPA-20DB	Internal tenon adapter for 4" square pole top to 2-3/8" light mount	Adapter			
	FLX-5SPA-20DB	Internal tenon adapter for 5" square pole top to 2-3/8" light mount	Adapter			
	FLX-6SPA-20DB	Internal tenon adapter for 6" square pole top to 2-3/8" light mount	Adapter			

Tenon adapter (FLX-1TPT-20DB) or stanchion mount junction box (HZXSTAN/200S) sold separately.

DuroSite® LED Floodlight

Mounting Options

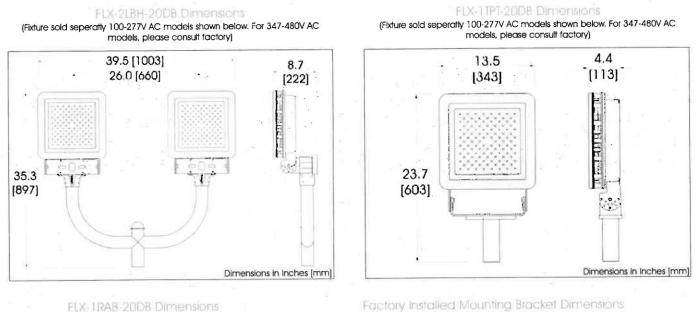




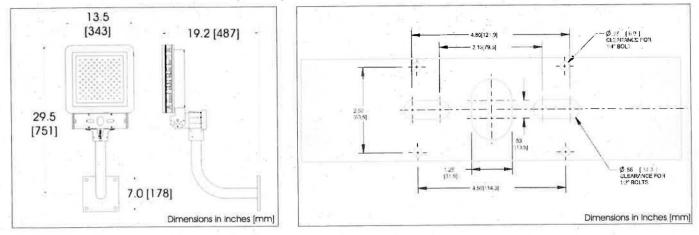




Product shipped with bracket installed (Bracket has locking positions at 0°, (±) 22.5°, (±) 45 (±) 67.5°, and 90°)



(100-277V AC models shown below. For 347-480V AC models, (Fixture sold seperatly 100-277V AC models shown below. For 347please consult factory) 480V AC models, please consult factory)



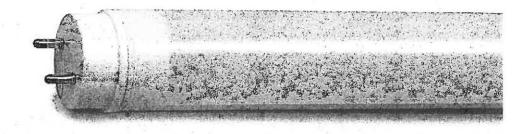
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MDTFDSFLLX001 H

GE Lighting

Integrated LED Tubes 18 Watt Refit Solutions from GE



Description

Convert your existing linear fluorescent fixture to LED lighting without needing a comprehensive reinstall. LED tubes are ideal for those seeking high energy savings with minimal installation time. Each LED tube is outfitted with an internal GE Lightech™ driver. The GE integrated LED tubes run on electronic T8 instant-start or programmed start ballasts.

Features

- 4' tubes
- 2,200 2,300 lumen options available
- 120 125 lumens per watt (LPW)
- Choice of three color temperatures (3500°K, 4000°K, 5000°K)
- 50,000 hours
- Dimmable on PRS ballast
- DLC listed
- UL and cUL approved technologies
 in compliance with 1598 certification
- NSF rated for food application
- Shatter-resistant
- 5-year limited warranty

LED Tubes Ranking among Complete Refit Solutions Portfolio

	्हीहलकी विद्र े	BEST
Initial Acquisition Costs		1
Installation Time/Cost		~
Energy Costs		4
Total Life Cycle Costs		14-111 1911
Light Distribution/Aesthetics		A STAN

Savings calculations are based on energy costs using \$0.11 per kWh and 16 hours of daily operation.

2

Years

3

4

5

Product Specifications

Integrated Refit LED Tubes

GE Product Code	Description	Bulb Shape	Bose	Low BF Wotts	Normal BF Watts	High BF Watts	Case Qty	Length (in)	Low BF Intital Lumens	Normal BF Initial Lumens	High BF Initial Lumens	Color Temp (°K)	GRI	Rated Life (L70)
93133	LED18ET8/4/835	T8	Medium Bi-Pin (G13)	15	18	23	25	48	1850	2200	2800	3500	80	50,000
			Medium											
93135	LED18ET8/4/840	T8	Bi-Pin (G13)	15	18	23	25	48	1850	2200	2800	4000	80	50,000
			(013)	-			1.1			1				
93140	LED18ET8/4/850	T 8	Medium Bi-Pin (G13)	15	18	23	25	48	1 <mark>850</mark>	2200	2800	5000	80	50,000

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LEDLOO2 (Rev 4/16/15)