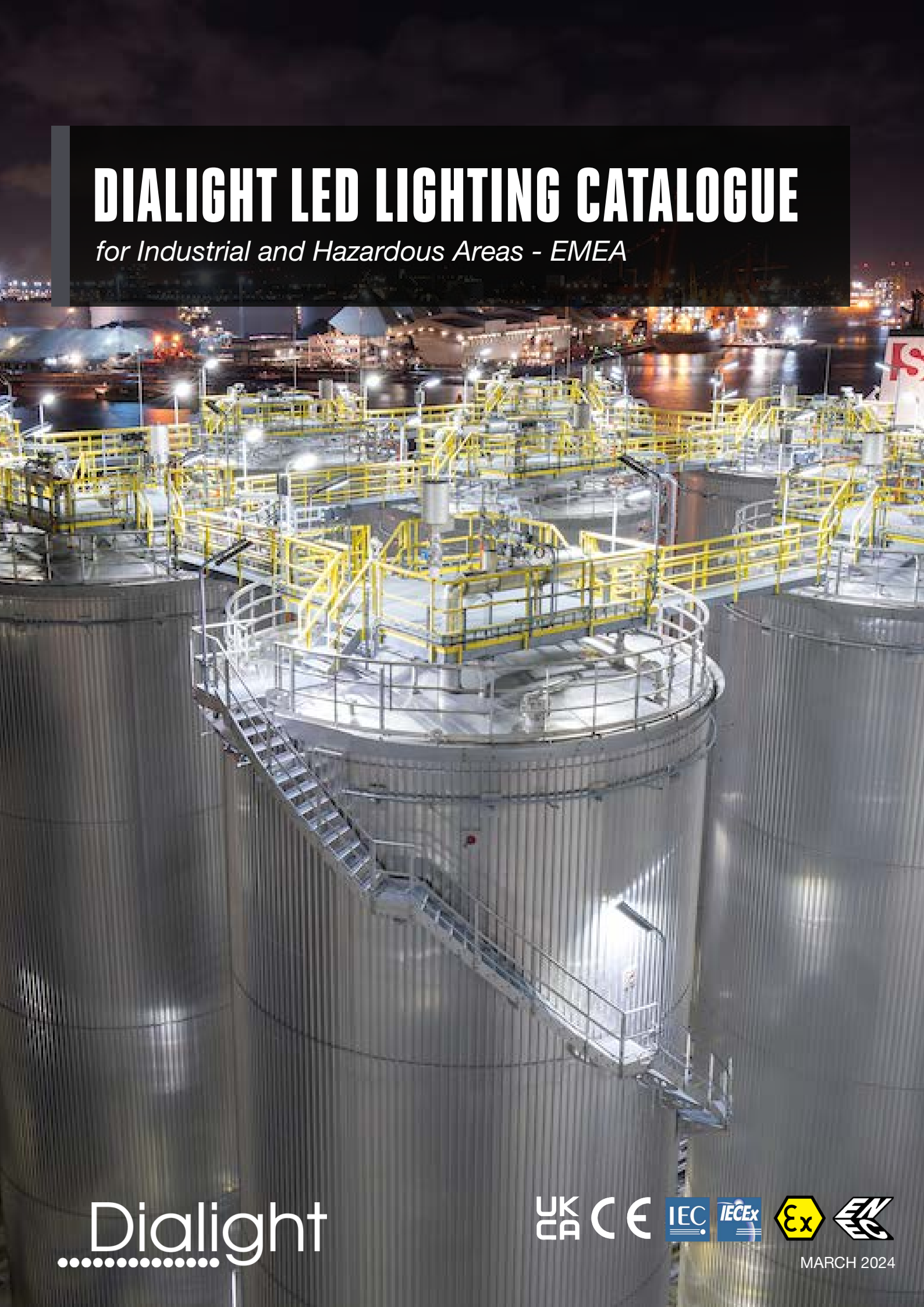
DIALIGHT LED LIGHTING CATALOGUE

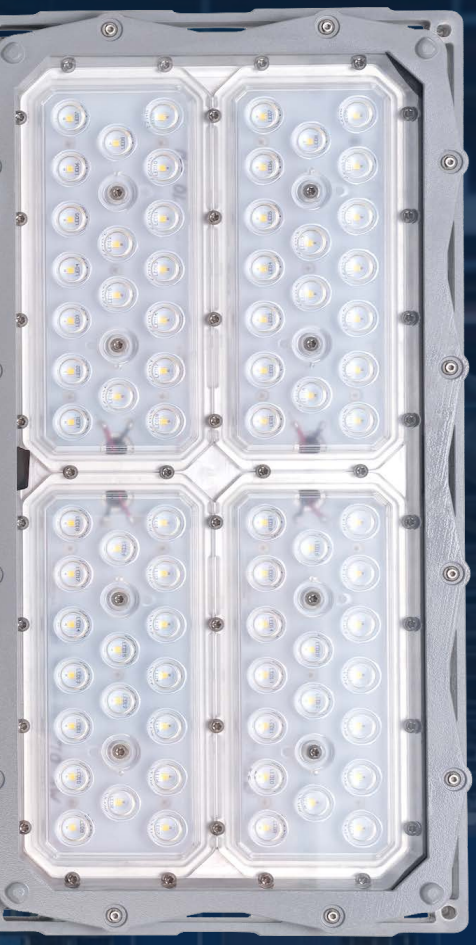
for Industrial and Hazardous Areas - EMEA



Dialight

MARCH 2024

WHY LIGHTING MATTERS in Industrial Facilities

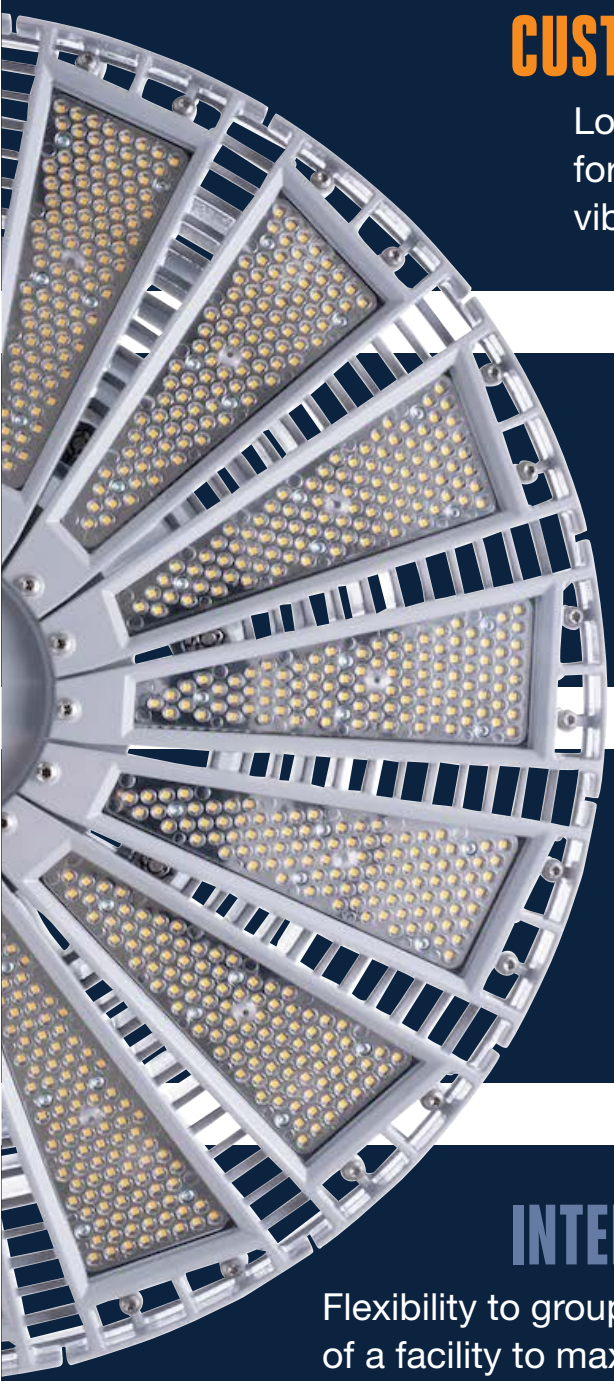


Lighting is of critical importance in industrial facilities to maximize both safety and productivity. Industrial sites are notorious for harsh conditions that can contribute to premature fixture failure.

- Physical hazards and moving objects
- High heat and high vibration
- Chemical vapors, dust and debris
- Noisy, complex heavy machinery
- Power surges

TECHNOLOGY DIFFERENTIATION

When choosing an LED Lighting partner, consider how their products are engineered, constructed and tested prior to making your decision. Most Dialight products are engineered to a **10 year warranty** and were designed with harsh environments in mind.



CUSTOM POWER SUPPLIES

Long-life potted drivers with optimized thermal dissipation for protection against environmental contaminants and vibration related failures.

LOW MAINTENANCE MECHANICAL DESIGN

Sealed and optimized to reduce or eliminate the need for maintenance over the life of the fixture. Easy to install and retrofit to existing infrastructure.

LATEST LEDS AND ADVANCED OPTICS

Highly efficient, crisp, low-glare illumination. Lighting where you need it, not where you don't.

INTELLIGENT CONTROLS

Flexibility to group, dim and schedule lights around the unique needs of a facility to maximize energy savings. Plus, seamless integration with existing factory automation.

Hazardous Area Ratings

Fixtures for installation and use in hazardous areas.

Zones

The zone defines the probability of hazardous material being present in an explosive concentration in the atmosphere.

Zone	Hazardous Material in Surrounding Atmosphere
Zone 0, 20	Area in which an explosive gas / dust mixture is continuously present or present for long periods
Zone 1, 21	Area in which an explosive gas / dust mixture is likely to occur for short periods in normal operation
Zone 2, 22	Area in which an explosive gas / dust mixture is present for a very short time due to an abnormal condition

Protection Types

The protection types are used to denote the protection concept utilised in the devices.

Ex	Presence of Hazardous Material	Zones
Ex d	Flameproof (Explosion proof) Enclosure	1, 21, 2, 22
Ex e	Increased Safety	1, 21, 2, 22
Ex m	Encapsulation	1, 21, 2, 22
Ex n or N	Non incendive or/and normally no sparking circuits	2, 22

Temperature Ratings

Certified equipment is tested for maximum temperature rating by approval agencies.
Equipment for Group II receives a temperature code indicating the maximum temperatures of the product.

Temperature Rating	
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Groups (Gas & Dust)

Equipment is tested for suitability in specified gas groups and dust groups.
Gas groups IIA, IIB, IIC. Dust groups IIIA, IIIB, IIIC

Group	Hazardous Material in Surrounding Atmosphere
Group IIA	Propane group
Group IIB	Ethylene group
Group IIC	Hydrogen group, covers IIB & IIA
Group IIIA	Combustible flyings
Group IIIB	Non-conductive dust
Group IIIC	Conductive dust, covers IIIB & IIIA

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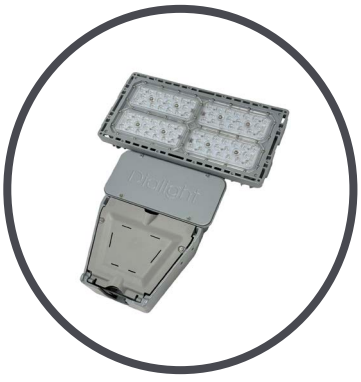

ProSite LED Streetlight - Coming Soon!

The Streetlight brings the same rugged design you expect from Dialight to your facility and plant access roadways, entry points, and parking lots.

APPLICATIONS & CASE STUDIES

Chemical & Petrochemical

These sites are among the most dangerous places to work due to the presence of volatile chemicals and explosive environments. It is without question that the lighting must be able to prevent and withstand combustible and explosive atmospheres while also providing clear illumination for workers to read color coded safety labels. For this reason, and the fact that workers can struggle with fatigue when operating complicated, specialized equipment for long periods of time, the Chemical Safety Board recommends bright white lighting.

General Manufacturing

While significant strides have been made by organizations such as OSHA over the past few decades to improve safety, the General Manufacturing industry inherently involve risks and hazards that demand high quality lighting. When choosing a lighting partner for your facilities, care must be taken to ensure their products have proven to perform safely and reliably in your environments and offer a sustainable solution.

Oil & Gas

Oil & Gas sites are among the most dangerous to work due to extremely harsh conditions ande explosive environments. It is without question that the lighting must be able to withstand ignitible atmospheres and prevent explosions, while also providing clear illumination for workers to perform tasks safely. We help provide a better solution, aiming to light facilities with the latest-generation LED fixtures to provide the most energy efficient, safe and reliable illumination.

Metals & Mining

Metals & Mining sites are among the most dangerous to work due to extremely harsh conditions and explosive environments. It is without question that the lighting must be able to withstand combustible atmospheres and prevent explosions, while also providing clear illumination for workers to perform tasks safely. For this reason, and the fact that workers can struggle with fatigue when operating complicated, specialized equipment for long periods of time, United Steelworkers recommends bright white lighting.

For more case study information & marketing collateral please visit www.dialight.com

DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to *www.dialight.com* for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at *www.dialight.com* as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document or information provided at *www.dialight.com*, the latter shall prevail.

APPLICATIONS & CASE STUDIES

Automotive

Lighting is of critical importance in Automotive facilities to maximize both safety and productivity. Automotive sites are notorious for harsh conditions that can contribute to premature fixture failure. Switching to Dialight can improve safety and visibility in Automotive facilities that will result in an outstanding benefit for emplyees.

Power Generation

The Power Generation industry involves risks and hazards that demand high quality lighting. When choosing a lighting partner for your facilities, care must be taken to ensure their products have proven to perform safely and reliably in your environments and offer a sustainable solution.

Water & Wastewater

Water treatment plants are among the most hazardous places to work due to the presence of volatile chemicals, hazardous biosolids and combustible gases - all of which can take a toll on facility lighting. Heavy equipment also makes accessing lighting for routine maintenance burdensome and dangerous.

Wood, Pulp & Paper

Pulp & Paper mills are notorious for harsh environments and conditions that can contribute to premature fixture failure due to airborne substances, including caustic chemicals and vapors, and even explosive risks such as wood dusts. High vibration, heat and humidity are also present. Most Dialight products are engineered to a 10 year warranty and were designed with harsh environments, such as Pulp & Paper facilities, in mind.

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ProSite LED Lighting Fixtures

for Industrial & Hazardous Applications

LED Floodlight

Wattage Range:	81-499W
Lumen Output Range:	12,200-65,000lm
Lumens per Watt:	Up to 163
Input Voltage:	120-277 VAC / 120-250 VDC, 347-415-480 VAC
Mounting:	Pole, Wall, Ceiling
Mounting Height:	Up to 30m

Reliant™ LED Lighting Fixtures

for Industrial Applications

LED High Bay

Wattage Range:	71-232W
Lumen Output Range:	10,600-33,800lm
Lumens per Watt:	Up to 149
Input Voltage:	100-277 VAC 50/60Hz
Mounting:	Overhead
Mounting Height:	Up to 12m

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Vigilant® LED Lighting Fixtures
for Industrial Applications

LED High Bay

Wattage Range:	80-230W
Lumen Output Range:	11,000-41,300lm
Lumens per Watt:	Up to 200
Input Voltage:	100-277 VAC 50/60Hz, 120-250 VDC
Mounting:	Overhead, Wall
Mounting Height:	Up to 18m

LED High Output High Bay - Low Profile

Wattage Range:	300-485W
Lumen Output Range:	Up to 70,500lm
Lumens per Watt:	Up to 153
Input Voltage:	120-277 VAC 50/60Hz
Mounting:	Overhead
Mounting Height:	Up to 30m

LED GRP Linear

Wattage Range:	25-51W
Lumen Output Range:	2,785-5,750lm
Lumens per Watt:	Up to 123
Input Voltage:	100-277 VAC 50/60Hz, 120-250 VDC, 230/240 VAC 50Hz (Emergency)
Mounting:	Ceiling, Wall, Pole, Overhead

LED Bulkhead

Wattage:	22-45W (Standard) 25-48W (Emergency)
Lumen Output:	3,100-6,700lm
Lumens per Watt:	Up to 149
Input Voltage:	110-277 VAC, 120-250 VDC (Standard) 230-240 VAC 50/60Hz (Emergency)
Mounting:	Flush, Stanchion, Pole
Mounting Height:	Up to 6m

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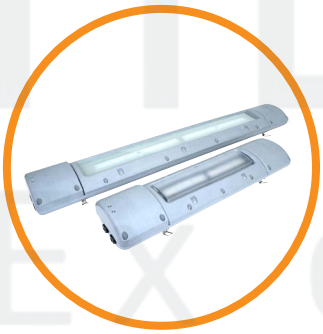
SafeSite® LED Lighting Fixtures

for Hazardous Area Applications

LED High Bay

Wattage:	58-212W
Lumen Output Range:	8,000-23,500lm
Lumens per Watt:	143
Input Voltage:	100-277 VAC, 120-250 VDC (High Efficiency)
Mounting:	Pole, Overhead, Ceiling, Wall
Mounting Height:	Up to 12m
Zone:	Zone 1, 21 and Zone 2, 22



LED GRP Linear

Wattage Range:	25-51W
Lumen Output Range:	2,785-5,750lm
Lumens per Watt:	Up to 123
Input Voltage:	100-277 VAC 50/60Hz, 120-250 VDC, 230/240 VAC 50Hz (Emergency)
Mounting:	Ceiling, Wall, Pole, Overhead
Zone:	Zone 1 & 2, 21 & 22

LED Bulkhead

Wattage:	22-45W (Standard) 25-48W (Emergency)
Lumen Output:	3,100-6,700lm
Lumens per Watt:	Up to 149
Input Voltage:	100-277 VAC, 120-250 VDC 230-240 VAC (Emergency)
Mounting:	Flush, Stanchion, Pole
Mounting Height:	Up to 6m

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Obstruction LED Lighting Solutions

ICAO

LED Based ICAO Type A

High Intensity (White / Red) Strobe

Effective Intensity:	White Day – 200,000 cd White Twilight- 20,000 cd White or Red Night- 2,000 cd
Wattage:	White day - 160W White twilight - 30W White Night - 23W Red Night - 30W
Input Voltage:	208-277 VAC

LED Based ICAO Type A/Type B

Medium Intensity (White/Red) Strobe - Infrared (IR) available

Effective Intensity:	White Day- 20,000 cd White Night- 2,000 cd Red Night- 2,000 cd
Wattage:	White Day- 36W (system = 75W) White Night- 4W (system = 10W) Red Night- 12W (system = 25W)
Input Voltage:	120-240 VAC or +/- 48 VDC

LED Based ICAO Type B/Type C

Medium Intensity (Red) Beacon - Infrared (IR) available

Effective Intensity:	2,000 cd
Wattage:	3.3W (16.7% duty circle)- standard 7.0W (16.7% duty circle)- IR model 20 flashes per minute with 0.5 sec. on time
Input Voltage:	120-240 VAC or 24-48 VDC

LED Based ICAO Type B

Low Intensity (Red) RTO Side Light - Infrared (IR) available and Low Intensity (Red) Side Light

Effective Intensity:	32.5 cd
Wattage Range:	9.0-1.5W; 13-42W
Input Voltage:	12-48 VDC / 120-240 VAC / 277 VAC

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ProSite LED Floodlight - Non-Hazardous

F1 Models

Certifications & Ratings

- 10 year warranty
- CE / ENEC
- IP66/67
- DNV
- IK10 - Integrated PC optic only
- IK10 - Polycarbonate lens
- IK08 - Glass lens
- L70 > 150,000 hours @ 25°C ambient

Mechanical Information:

Fixture weight:	10.9 - 13.6 kg
Shipping weight:	~14.5 kg
EPA (m^2):	0.186
Mounting: (all with 7.5° tilt adjustment)	316 stainless steel straight bracket 316 stainless steel angled bracket Slipfitter bracket
Cable entry:	2 x M25

Electrical Specifications:

Operating voltage:	120-277 VAC / 120-250 VDC 347-415-480 VAC
Operating temp:	-40°C to +65°C
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Transient protection: Optional:	6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground. Additional surge protection module rated for 10kA, 20kA single strike
THD:	< 20%
Power Factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible/0-10 VDC Optional wireless dimming via Dialight IntelliLED controls

Construction:

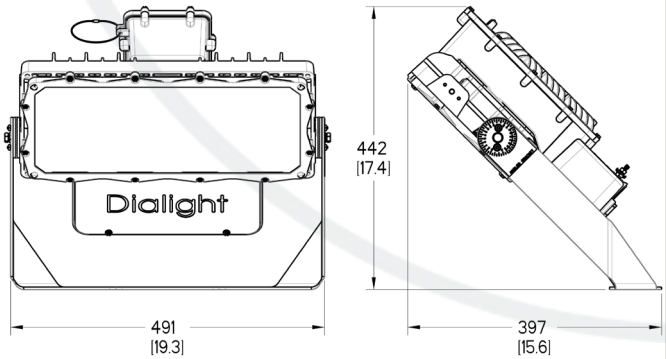
Housing:	A360 Die-cast aluminum
Hardware:	316 stainless steel
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Integrated PC Optic/Lens, Glass Lens Cover, PC Lens Cover

Photometric Information:

CRI:	70 (80 optional)
CCT:	5000K (cool white) 4000K (neutral white) 2200K (warm white) 2700K (warm white) - 80 CRI Amber
Beam pattern:	Medium - 55° Wide - 125° Very Wide - 131° x 108° Asymmetric - Forward Distribution Asymmetric Wide
IES files:	Available at www.dialight.com

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

Angled Bracket



Dimensions in mm [inches]

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.

Ordering Information - F1

ProSite LED Floodlight - Non-Hazardous

Industrial - CE							
Part Number	**Lumens**	**Wattage**	**lm/W**	**Voltage**	**CCT**	**Lens**	**Beam Distribution**
12,000lm Models							
F1E-N7B2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6B2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Wide (125°)
F1E-N4B2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Medium (56°)
F1E-7FB2-BDEN-VGN	12,200	81	151	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric
F1E-NJB2-BDEN-VGN	12,300	81	152	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide
F1E-N7L2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6L2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Wide (125°)
F1E-N4L2-BDEN-VGN	13,200	81	163	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Medium (56°)
F1E-7FL2-BDEN-VGN	12,200	81	151	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric
F1E-NJL2-BDEN-VGN	12,300	81	152	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Asymmetric Wide
F1E-N7W2-BDEN-VGN	10,200	81	126	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6W2-BDEN-VGN	10,200	81	126	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Wide (125°)
F1E-N4W2-BDEN-VGN	10,200	81	126	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Medium (56°)
F1E-7FW2-BDEN-VGN	9,200	81	114	120-277VAC / 120-250VDC	2700k (warm white)	Glass	Asymmetric
F1E-NJW2-BDEN-VGN	9,300	81	115	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Asymmetric Wide
18,000lm Models							
F1E-N7B2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6B2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Wide (125°)
F1E-N4B2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Medium (56°)
F1E-7FB2-CDEN-VGN	17,700	124	143	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric
F1E-NJB2-CDEN-VGN	17,800	124	144	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide
F1E-N7L2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6L2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Wide (125°)
F1E-N4L2-CDEN-VGN	19,100	124	154	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Medium (56°)
F1E-7FL2-CDEN-VGN	17,700	124	143	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric
F1E-NJL2-CDEN-VGN	17,800	124	144	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Asymmetric Wide
F1E-N7W2-CDEN-VGN	14,800	124	119	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6W2-CDEN-VGN	14,800	124	119	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Wide (125°)
F1E-N4W2-CDEN-VGN	14,800	124	119	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Medium (56°)
F1E-7FW2-CDEN-VGN	13,400	124	108	120-277VAC / 120-250VDC	2700k (warm white)	Glass	Asymmetric
F1E-NJW2-CDEN-VGN	13,500	124	109	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Asymmetric Wide
30,000lm Models							
F1E-N7B2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6B2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Wide (125°)
F1E-N4B2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Medium (56°)
F1E-7FB2-FDEN-VGN	29,200	234	125	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric
F1E-NJB2-FDEN-VGN	29,400	234	126	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide
F1E-N7L2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6L2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Wide (125°)
F1E-N4L2-FDEN-VGN	31,600	234	135	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Medium (56°)
F1E-7FL2-FDEN-VGN	29,200	234	125	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric
F1E-NJL2-FDEN-VGN	29,400	234	126	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Asymmetric Wide
F1E-N7W2-FDEN-VGN	24,500	234	105	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Very Wide (131° x 108°)
F1E-N6W2-FDEN-VGN	24,500	234	105	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Wide (125°)
F1E-N4W2-FDEN-VGN	24,500	234	105	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Medium (56°)
F1E-7FW2-FDEN-VGN	22,100	234	94	120-277VAC / 120-250VDC	2700k (warm white)	Glass	Asymmetric
F1E-NJW2-FDEN-VGN	22,300	234	95	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Asymmetric Wide

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
Voltage - For 347-415-480 VAC change 7th character to '5'.
Lens - For glass lens cover change 4th character to a '7', For PC lens cover change 4th character to a '4'. Lens option '4' and '7' not available for asymmetric wide optic.
CCT - For 2200k change 6th character to 'U'. Refer to lumen table in technical spec sheet for accurate values.
Surge Protection - For 10kA surge protection 120-277VAC change 7th character to '8'. For 10kA surge protection 347-415-480 VAC change 7th character to '9'
PE Cell - For NEMA PE Cell Receptacle with shorting cap change 9th character to 'S'.
Mounting Bracket - Angled Bracket supplied as standard - for straight bracket change 10th character to 'F', for slip fitter change 10th character to 'S'
Amber options available.

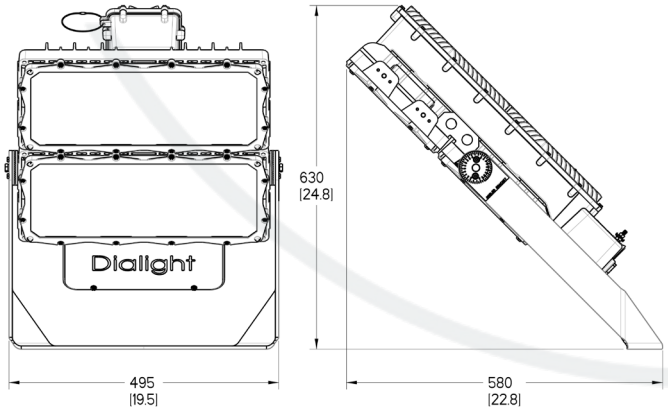
ProSite LED Floodlight - Non-Hazardous

F2 Models

Certifications & Ratings

- 10 year warranty
- CE / ENEC
- IP66/67
- DNV
- IK10 - Integrated PC optic only
- IK10 - Polycarbonate lens
- IK08 - Glass lens
- L70 > 150,000 hours @ 25°C ambient

Angled Bracket



Dimensions in mm [inches]

Mechanical Information:

Fixture weight:	19.5 - 24.5 kg
Shipping weight:	~25.5 kg
EPA (m^2):	0.310
Mounting: (all with 7.5° tilt adjustment)	316 stainless steel straight bracket 316 stainless steel angled bracket
Cable entry:	2 x M25

Electrical Specifications:

Operating voltage:	120-277 VAC / 120-250 VDC 347-415-480 VAC
Operating temp:	-40°C to +65°C -40°C to +55°C - 60klm
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Transient protection: Optional:	6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground. Additional surge protection module rated for 10kA, 20kA single strike
THD:	< 20%
Power Factor:	> 0.9
Dimming:	0-10VDC DALI 1 and DALI 2 compatible

Construction:

Housing:	A360 Die-cast aluminum
Hardware:	316 stainless steel
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Integrated PC Optic/Lens, Glass Lens Cover, PC Lens Cover

Photometric Information:

CRI:	70 (80 optional)
CCT:	5000K (cool white) 4000K (neutral white) 2200K (warm white) 2700K (warm white) - 80 CRI Amber
Beam pattern:	Medium - 55° Wide - 125° Very Wide - 131° x 108° Asymmetric - Forward Distribution Asymmetric Wide
IES files:	Available at www.dialight.com

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

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Ordering Information - F2

ProSite LED Floodlight - Non-Hazardous

Industrial - CE							
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
60,000lm Models - 10kA Surge Protection							
F2E-N7B8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6B8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Wide (125°)
F2E-N4B8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Medium (56°)
F2E-7FB8-NDEN-VGN	60,100	484	124	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric
F2E-NJB8-NDEN-VGN	60,500	484	125	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide
F2E-N7L8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6L8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Wide (125°)
F2E-N4L8-NDEN-VGN	65,000	484	134	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Medium (56°)
F2E-7FL8-NDEN-VGN	60,100	484	124	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric
F2E-NJL8-NDEN-VGN	60,500	484	125	120-277VAC / 120-250VDC	4000k (neutral white)	Integrated PC	Asymmetric Wide
F2E-N7W8-NDEN-VGN	50,400	484	104	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6W8-NDEN-VGN	50,400	484	104	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Wide (125°)
F2E-N4W8-NDEN-VGN	50,400	484	104	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Medium (56°)
F2E-7FW8-NDEN-VGN	45,500	484	94	120-277VAC / 120-250VDC	2700k (warm white)	Glass	Asymmetric
F2E-NJW8-NDEN-VGN	46,800	484	97	120-277VAC / 120-250VDC	2700k (warm white)	Integrated PC	Asymmetric Wide
60,000lm Models - 347-415-480 VAC 10kA Surge Protection							
F2E-N7B9-NDEN-VGN	65,000	499	130	347-415-480VAC	5000k (cool white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6B9-NDEN-VGN	65,000	499	130	347-415-480VAC	5000k (cool white)	Integrated PC	Wide (125°)
F2E-N4B9-NDEN-VGN	65,000	499	130	347-415-480VAC	5000k (cool white)	Integrated PC	Medium (56°)
F2E-7FB9-NDEN-VGN	60,100	499	120	347-415-480VAC	5000k (cool white)	Glass	Asymmetric
F2E-NJB9-NDEN-VGN	60,500	499	121	347-415-480VAC	5000k (cool white)	Integrated PC	Asymmetric Wide
F2E-N7L9-NDEN-VGN	65,000	499	130	347-415-480VAC	4000k (neutral white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6L9-NDEN-VGN	65,000	499	130	347-415-480VAC	4000k (neutral white)	Integrated PC	Wide (125°)
F2E-N4L9-NDEN-VGN	65,000	499	130	347-415-480VAC	4000k (neutral white)	Integrated PC	Medium (56°)
F2E-7FL9-NDEN-VGN	60,100	499	120	347-415-480VAC	4000k (neutral white)	Glass	Asymmetric
F2E-NJL9-NDEN-VGN	60,500	499	121	347-415-480VAC	4000k (neutral white)	Integrated PC	Asymmetric Wide
F2E-N7W9-NDEN-VGN	50,400	499	101	347-415-480VAC	2700k (warm white)	Integrated PC	Very Wide (131° x 108°)
F2E-N6W9-NDEN-VGN	50,400	499	101	347-415-480VAC	2700k (warm white)	Integrated PC	Wide (125°)
F2E-N4W9-NDEN-VGN	50,400	499	101	347-415-480VAC	2700k (warm white)	Integrated PC	Medium (56°)
F2E-7FW9-NDEN-VGN	45,500	499	91	347-415-480VAC	2700k (warm white)	Glass	Asymmetric
F2E-NJW9-NDEN-VGN	46,800	499	94	347-415-480VAC	2700k (warm white)	Integrated PC	Asymmetric Wide

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
Lens - For glass lens cover change 4th character to a '7', For PC lens cover change 4th character to a '4'. Lens option '4' and '7' not available for asymmetric wide optic.
CCT - For 2200k change 6th character to 'U'. Refer to lumen table in technical spec sheet for accurate values.
PE Cell - For NEMA PE Cell Receptacle with shorting cap change 9th character to 'S'.
Mounting Bracket - Angled Bracket supplied as standard - for straight bracket change 10th character to 'F'.

Ex Hazardous F2 models available on request.

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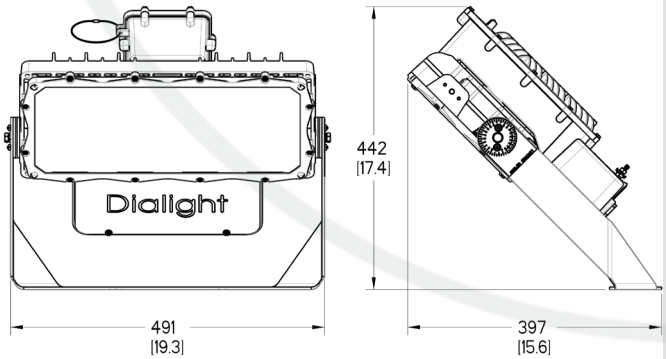
ProSite LED Floodlight - Hazardous

F1 Models

Certifications & Ratings

- 10 year warranty
- ATEX/IECEx Zone 2, 21 & 22
  - Ex ec IIC T4 Gc
  - Ex tb IIIC T110°C Db
  - ITS-I 22 ATEX 29411X
  - ITS-I 22 ATEX 294111X
  - IECEx ETL 22.0001X
- IP66/67
- DNV
- IK08 - Glass lens
- L70 > 150,000 hours @ 25°C ambient

Angled Bracket



Dimensions in mm [inches]

Mechanical Information:

Fixture weight:	10.9 - 13.6 kg
Shipping weight:	~14.5 kg
EPA (m^2):	0.186
Mounting: (all with 7.5° tilt adjustment)	316 stainless steel straight bracket 316 stainless steel angled bracket Slipfitter bracket
Cable entry:	2 x M25

Electrical Specifications:

Operating voltage:	120-277 VAC / 120-250 VDC 347-415-480 VAC
Operating temp:	-40°C to +65°C
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Transient protection:	6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground.
THD:	< 20%
Power Factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible/0-10 VDC

Construction:

Housing:	A360 Die-cast aluminum
Hardware:	316 stainless steel
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Glass

Photometric Information:

CRI:	70 (80 optional)
CCT:	5000K (cool white) 4000K (neutral white) 2200K (warm white) 2700K (warm white) - 80 CRI Amber
Beam pattern:	Medium - 55° Wide - 125° Very Wide - 131° x 108° Asymmetric - Forward Distribution
IES files:	Available at www.dialight.com

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

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Ordering Information - F1

ProSite LED Floodlight - Hazardous

Hazardous - ATEX/IECEx Zone 2, 21, 22							
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
12,000lm Models							
F1B-77B2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)
F1B-76B2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Wide (125°)
F1B-74B2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Medium (56°)
F1B-7FB2-BDEN-VGN	12,200	81	151	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Asymmetric
F1B-77L2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)
F1B-76L2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Wide (125°)
F1B-74L2-BDEN-VGN	12,500	81	154	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Medium (56°)
F1B-7FL2-BDEN-VGN	12,200	81	151	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Asymmetric
F1B-77W2-BDEN-VGN	9,500	81	117	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Very Wide (131° x 108°)
F1B-76W2-BDEN-VGN	9,500	81	117	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Wide (125°)
F1B-74W2-BDEN-VGN	9,500	81	117	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Medium (56°)
F1B-7FW2-BDEN-VGN	9,200	81	114	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Asymmetric
18,000lm Models							
F1B-77B2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)
F1B-76B2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Wide (125°)
F1B-74B2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Medium (56°)
F1B-7FB2-CDEN-VGN	17,700	124	143	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Asymmetric
F1B-77L2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)
F1B-76L2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Wide (125°)
F1B-74L2-CDEN-VGN	18,000	124	145	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Medium (56°)
F1B-7FL2-CDEN-VGN	17,700	124	143	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Asymmetric
F1B-77W2-CDEN-VGN	13,800	124	111	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Very Wide (131° x 108°)
F1B-76W2-CDEN-VGN	13,800	124	111	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Wide (125°)
F1B-74W2-CDEN-VGN	13,800	124	111	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Medium (56°)
F1B-7FW2-CDEN-VGN	13,400	124	108	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Asymmetric
30,000lm Models							
F1B-77B2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)
F1B-76B2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Wide (125°)
F1B-74B2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Medium (56°)
F1B-7FB2-FDEN-VGN	29,200	234	125	120-277VAC / 130 - 250VDC	5000k (cool white)	Glass	Asymmetric
F1B-77L2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)
F1B-76L2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Wide (125°)
F1B-74L2-FDEN-VGN	29,900	234	128	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Medium (56°)
F1B-7FL2-FDEN-VGN	29,200	234	125	120-277VAC / 130 - 250VDC	4000k (neutral white)	Glass	Asymmetric
F1B-77W2-FDEN-VGN	22,800	234	97	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Very Wide (131° x 108°)
F1B-76W2-FDEN-VGN	22,800	234	97	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Wide (125°)
F1B-74W2-FDEN-VGN	22,800	234	97	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Medium (56°)
F1B-7FW2-FDEN-VGN	22,100	234	94	120-277VAC / 130 - 250VDC	2700k (warm white)	Glass	Asymmetric

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
CCT - For 2200k change 6th character to 'U'. Refer to lumen table in technical spec sheet for accurate values.
Mounting Bracket - Angled Bracket supplied as standard - for straight bracket change 10th character to 'F'.
Amber options available.

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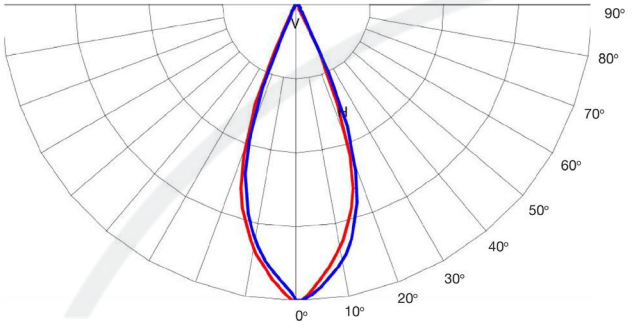
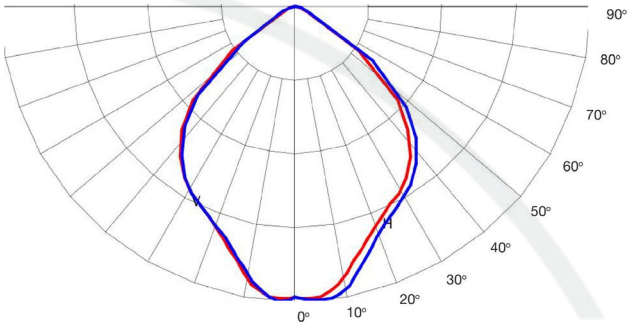
Beam Distribution

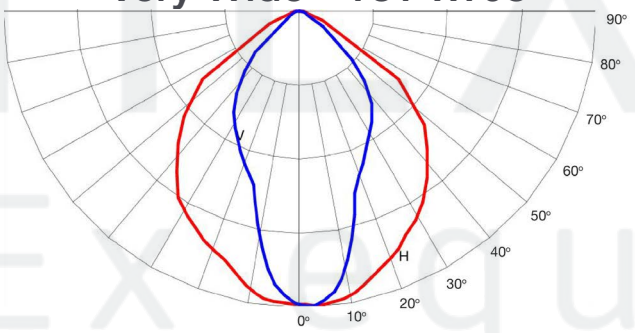
Medium - 55°



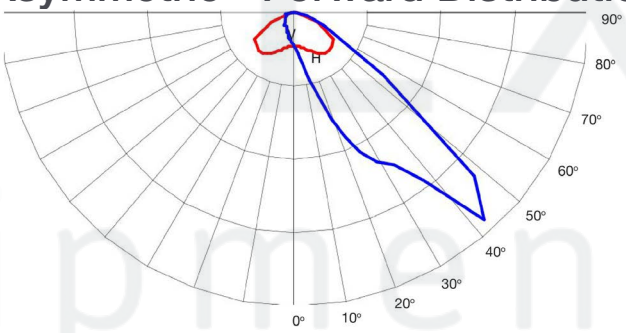
Wide - 125°



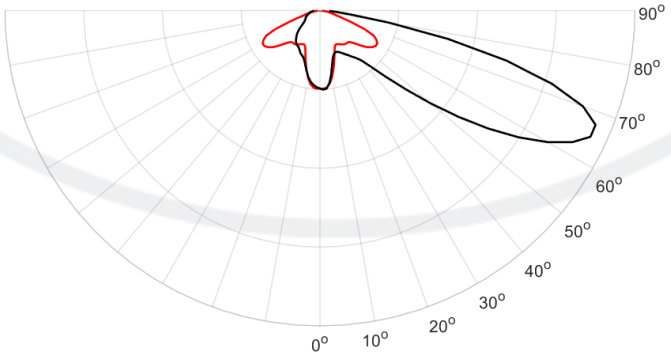
Very Wide - 131°x108°



Asymmetric - Forward Distribution



Asymmetric Wide



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Accessories

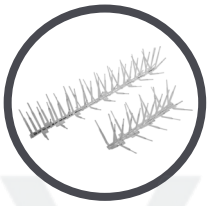
F1NVISOR
- F1 visor NEMA optics

F2NVISOR
- F2 visor NEMA optics

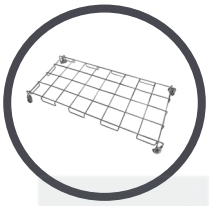
F2AVISOR
- F2 visor asymmetric optics
- Not suitable for asymmetric wide optic

H6XCAB72[1]
- 72” stainless steel safety rope
- Kit includes: (1) cable

H6XCAB60[1]
- 60” stainless steel safety rope
- Kit includes: (1) cable



F1SPIKES
F2SPIKES
- Bird spikes



FLWG
- Wire guard
- Kit includes (1) assembly

[1]F1 models require 1 cable per unit. F2 models require 2 cables per unit.

Replacements*

SLPC01R
- Photocell, 105-305 VAC

SLPC02R
- Photocell, 312-382 VAC

SLPC03R
- Photocell, 432-528 VAC

FLWIRELESS
- Wireless controls card

FLGLASSLG
- Glass lens, grey

FLPCLG
- Polycarb lens, grey

- Kit includes (1) assembly

FL10KV277
- 10kA surge protection 100-277V

FL10KV480
- 10kA surge protection 347-480V

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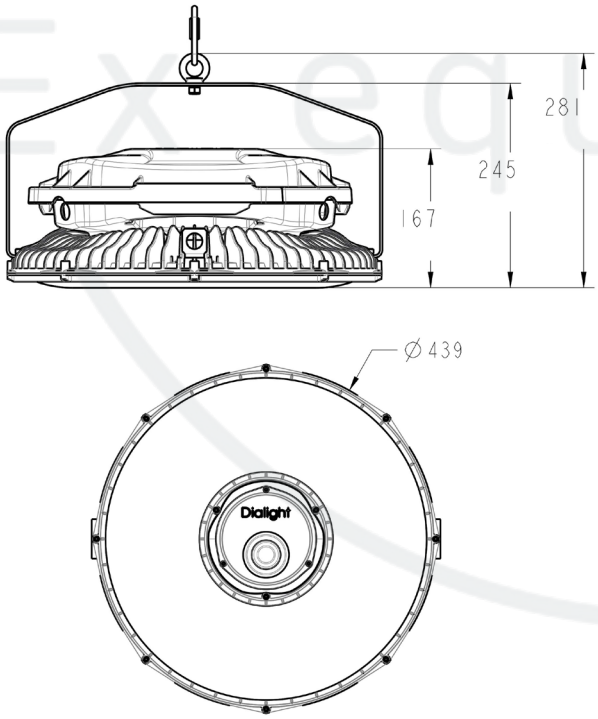
Reliant™ LED High Bay

Technical Specification

Certifications & Ratings

- 10 year warranty
- CE / ENEC
- IP66
- IK10 (polycarbonate) / IK07 (glass)
- L70 rated for >100,000 hours @ 55ºC
- L90 rated for >100,000 hours @ 25ºC



Dimensions in mm

Mechanical Information:

Fixture weight:	9.3 kg
Shipping weight:	12 kg
Box dimensions:	515 x 515 x 350mm

Mounting:

Mounting:	304 stainless steel mounting bracket

Electrical Specifications:

Operating voltage:	100-277 VAC 50/60Hz
Operating temperature:	-40°C to +55°C
Total system power consumption:	See ordering table
EMC:	EN 55015 IEC 61000-3-3 IEC 61547 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11
Transient protection:	6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground IEC 61000-4-5 IEC 61000-4-4
THD:	IEC 55015 <20% @ 100-277 VAC
Harmonics:	IEC 61000-3-2, Class C
Power factor:	>0.9 @ 100-277 VAC
Flicker:	IEC 61000-3-3
Dimming:	DALI 1.0 and 2.0 compatible - 100-5% 0-10 VDC continuous dimming - 100-5% Wireless dimming via optional Dialight IntelliLED controls - 100-5%
Cable entry:	(3) M20
Terminals:	5 position, 0.5-4 mm^2

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Materials:

Housing:	Polycarbonate (upper) Aluminium (lower)
Lens:	Polycarbonate Glass and acrylic options also available
Hardware:	304 stainless steel
Hook:	304 stainless steel
Fixture finish:	Superior dual coat finish - sealed polyester topcoat - epoxy primer

Gaskets:

Light engine:	Santoprene
Wiring box:	EPDM

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white) options available consult factory

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

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Reliant™ LED High Bay

Ordering Information & Accessories

Part Number	Fixture Lumen	Wattage	lm/W	CCT	Lens	Beam Distribution	Controls
DALI Models							
RRE-4MC2-JDHN-NGN	33,800	232	146	5000K (cool white)	Polycarbonate Clear	Medium	DALI
RRE-4AC2-JDHN-NGN	33,800	232	146			Aisle	
RRE-4MC2-GDHN-NGN	28,200	191	148			Medium	
RRE-4AC2-GDHN-NGN	28,200	191	148			Aisle	
RRE-4MC2-EDHN-NGN	22,800	159	143			Medium	
RRE-4AC2-EDHN-NGN	22,800	159	143			Aisle	
RRE-4MC2-CDHN-NGN	16,900	114	148			Medium	
RRE-4AC2-CDHN-NGN	16,900	114	148			Aisle	
RRE-4MC2-BDHN-NGN	13,400	91	147			Medium	
RRE-4AC2-BDHN-NGN	13,400	91	147			Aisle	
RRE-4MC2-ADHN-NGN	10,600	71	149			Medium	
RRE-4AC2-ADHN-NGN	10,600	71	149			Aisle	

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
Models available up to 160 lm/W with acrylic or glass lens. Please contact a Dialight sales representative.
Models in chart above are 5000K CCT. For 4000K CCT change the 5th character from C to N.
Standard hardware options: bracket with hook.
Standby power draw < 1 watt
For additional controls options including occupancy sensor and IntelliLED wireless controls, please contact a Dialight sales representative.
DALI models are also compatible with 0-10V dimming

HBXCAB48

- 1.2m long stainless steel safety rope (for use with included safety bracket)

RR-CP-OCC-DALI

- CPEBDHSMBDD (side mounted) DALI enabled occupancy sensor

RR-WS-OCC-212

- Wattstopper FSP 212 (centre mounted) occupancy sensor

RR-CP-OCC-REM

- Remote for CP occupancy sensor

RR-WIRELESS-1

- IntelliLED wireless control

Part Number	Description
HBXCAB48	1.2m long stainless steel safety rope (for use with safety bracket)
RR-WIRELESS-1	IntelliLED wireless controls - basic
RR-WS-OCC-212	Wattstopper FSP 212 (centre mounted) occupancy sensor
RR-CP-OCC-DALI	CPEBDHSMBDD (side mounted) DALI enabled occupancy sensor
RR-CP-OCC-REM	Remote for CP occupancy sensor

For additional controls options including IntelliLED wireless controls, contact a Dialight sales representative for spec sheet.

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Vigilant® Ultra-Efficient LED High Bay

Technical Information

Corded Model

Mechanical Information:

Fixture weight:
8.2 kg (18 lbs)

Shipping weight:
10.9 kg (24 lbs)

Mounting:
Stainless Steel Hook

Power Cord:
3 meters, H07RN-F or H07BN4-F Heavy Duty

Prefix: VEE

Integrated Wiring Box

Mechanical Information:

Fixture weight:
9.1 kg (20 lbs)

Shipping weight:
11.8 kg (26 lbs)

Mounting:
Various Kits

Wiring Box Cable Entries:
M25 x 3

Terminals:
0.5-4mm^2 x 5

Prefix: VWE

Certifications & Ratings:

EN 60598-1:2015, IEC 60598-1:2014

EN 60598-2-1:1989, IEC 60598-2-1:2020

IEC60068
Salt spray testing - severity 1

IP66 to EN 60529

IK10 to EN 50102 (Polycarbonate lens)

IK06 to EN 50102 (Acrylic lens)

IK05 to EN 50102 (Glass lens)

D-Marking to EN 60598 2-24
L70 >150,000 hours @ 25°C ambient

Variable Dimming as Standard:

Variable Dimming Control:	DALI 1 and DALI 2 compatible (VWE models), 0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	100-277 VAC 120-250 VDC
Total system power consumption:	See table
Operating Temp:	-40°C to +65°C
Harmonics:	IEC 61000-3-2
Noise requirement /EMC:	EN 61547: 2009 Radiated and Conducted Emissions: EN 55015
EMC Immunity:	EN 61547: 2009
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41. 347-480 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	< 20%
Power Factor:	> 0.9

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper-free aluminium
Finish:	Superior dual coat finish -Sealed polyester topcoat -Chemical-resistant epoxy primer
Lens:	See table
Screws:	Stainless steel 316
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI:	80, 70
CCT:	5000K (cool white) 4000K (neutral white)

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

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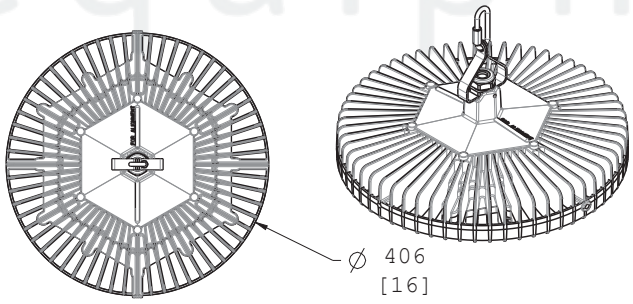
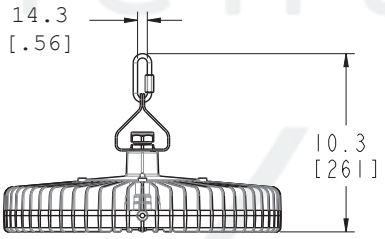
Vigilant® Ultra-Efficient LED High Bay

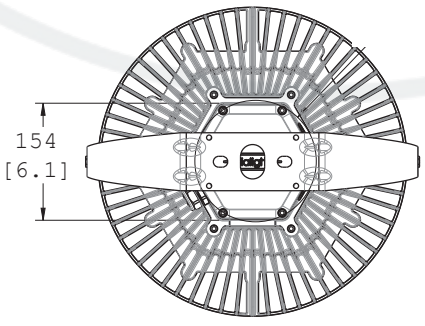
Ordering Information

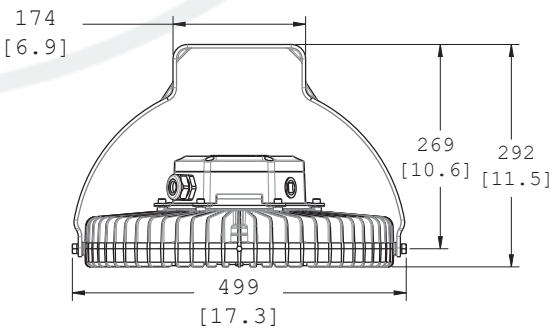
Standard Model with 3 Meter Cable & Hook Mount								
Part Number	**Lumens**	**Wattage**	**lm/W**	**CCT**	**CRI**	**Lens**	**Beam Distribution**	**Controls**
VEE-7WC2-JNHW-NGN	38,200	230	166	5000K	80	Glass	Wide	
VEE-7MC2-JNHW-NGN	37,400	230	163	5000K	80	Glass	Medium	
VEE-7WC2-HNHW-NGN	33,000	195	169	5000K	80	Glass	Wide	
VEE-7MC2-HNHW-NGN	32,300	195	166	5000K	80	Glass	Medium	
VEE-7WC2-FNHW-NGN	28,600	165	173	5000K	80	Glass	Wide	
VEE-7MC2-FNHW-NGN	28,000	165	170	5000K	80	Glass	Medium	
Integrated Wiring Box - Standard with HBXW3 Bracket								
VWE-7WC2-JAAW-NGN	38,200	230	166	5000K	80	Glass	Wide	DALI
VWE-7MC2-JAAW-NGN	37,400	230	163	5000K	80	Glass	Medium	DALI
VWE7-WC2-HAAW-NGN	33,000	195	169	5000K	80	Glass	Wide	DALI
VWE-7MC2-HAAW-NGN	32,300	195	166	5000K	80	Glass	Medium	DALI
VWE-7WC2-FAAW-NGN	28,600	165	173	5000K	80	Glass	Wide	DALI
VWE-7MC2-FAAW-NGN	28,000	165	170	5000K	80	Glass	Medium	DALI

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









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Vigilant® LED High Bay

Technical Specifications

Corded Model

Mechanical Information:

Fixture weight:
8.2 kg (18 lbs)

Shipping weight:
10.9 kg (24 lbs)

Mounting:
Stainless Steel Hook

Power Cord:
3 meters, H07RN-F or H07BN4-F Heavy Duty

Prefix: HEE

Integrated Wiring Box

Mechanical Information:

Fixture weight:
9.1 kg (20 lbs)

Shipping weight:
11.8 kg (26 lbs)

Mounting:
Various Kits

Wiring Box Cable Entries:
M25 x 3

Terminals:
0.5-4mm^2 x 5

Prefix: HWE

Certifications & Ratings:

EN 60598-1:2015, IEC 60598-1:2014

EN 60598-2-1:1989, IEC 60598-2-1:2020

IEC60068
Salt spray testing - severity 1

IP66 to EN 60529

IK10 to EN 50102 (Polycarbonate lens)

IK06 to EN 50102 (Acrylic lens)

IK05 to EN 50102 (Glass lens)

D-Marking to EN 60598 2-24
L70 >150,000 hours @ 25°C ambient

Variable Dimming as Standard:

Variable Dimming Control:	DALI 1.0 and 2.0 compatible (HWE models), 0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	100-277 VAC 120-250 VDC
Total system power consumption:	See table
Operating Temp:	-40°C to +65°C
Harmonics:	IEC 61000-3-2
Noise requirement /EMC:	EN 61547: 2009 Radiated and Conducted Emissions: EN 55015
EMC Immunity:	EN 61547: 2009
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41. 347-480 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	< 20%
Power Factor:	> 0.9

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper-free aluminium
Finish:	Superior dual coat finish -Sealed polyester topcoat -Chemical-resistant epoxy primer
Lens:	See table
Screws:	Stainless steel 316
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white)

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

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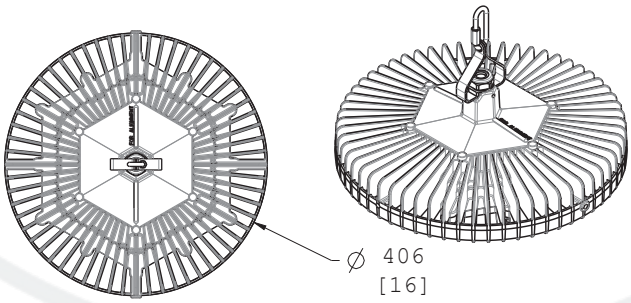
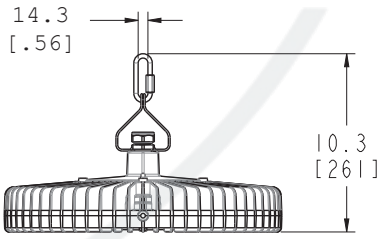
Vigilant® LED High Bay

Ordering Information

Standard Model with 3 Meter Cable & Hook Mount									
Part Number	Legacy Part Number	Lumens	Watts	lm/W	Voltage	CCT	CRI	Lens	Beam Distribution
HEE-7MC2-EDHW-NGN	HEEGMC4PNHNG	27,500	185	149	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HEE-4MC2-EDHW-NGN	HEE2MC4PNHNG	27,200	185	147	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HEE-LMC2-EDHW-NGN	HEELMC4PNHNG	27,000	185	146	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HEE-7MC2-CDHW-NGN	HEEGMC4KNHNG	19,800	130	152	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HEE-4MC2-CDHW-NGN	HEE2MC4KNHNG	19,600	130	151	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HEE-LMC2-CDHW-NGN	HEELMC4KNHNG	19,400	130	149	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HEE-7MC2-BDHW-NGN	HEEGMC4GNHNG	14,900	100	149	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HEE-4MC2-BDHW-NGN	HEE2MC4GNHNG	14,800	100	148	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HEE-LMC2-BDHW-NGN	HEELMC4GNHNG	14,600	100	146	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HEE-7MC2-ADHW-NGN	HEEGMC4DNHNG	11,600	80	145	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HEE-4MC2-ADHW-NGN	HEE2MC4DNHNG	11,500	80	144	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HEE-LMC2-ADHW-NGN	HEELMC4DNHNG	11,400	80	143	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium

All values typical unless otherwise stated (tolerance +/- 10%)
Models in chart above are 5000K CCT. For 4000K CCT change the 6th character from C to N & deduct 3% from the lumen table.
Flat clear acrylic lens available, consult local Dialight sales office for availability.





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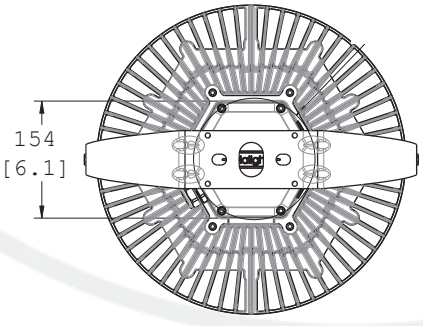
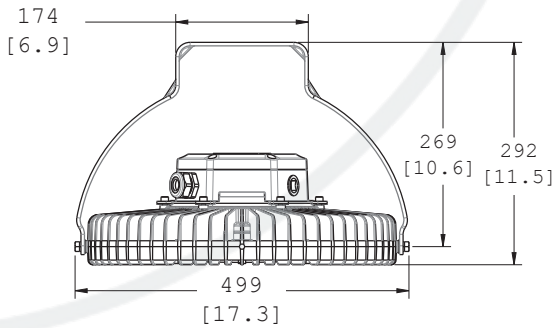
Vigilant® LED High Bay

Ordering Information

Integrated Wiring Box - Standard with HBXW3 Bracket									
Part Number	Legacy Part Number	Lumens	Watts	lm/W	Voltage	CCT	CRI	Lens	Beam Distribution
HWE-7MC2-EDAN-NGN	HEEGMC4PNJNG	27,500	185	149	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HWE-4MC2-EDAN-NGN	HEE2MC4PNJNG	27,200	185	147	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HWE-LMC2-EDAN-NGN	HEELMC4PNJNG	27,000	185	146	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HWE-7MC2-CDAN-NGN	HEEGMC4KNJNG	19,800	130	152	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HWE-4MC2-CDAN-NGN	HEE2MC4KNJNG	19,600	130	151	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HWE-LMC2-CDAN-NGN	HEELMC4KNJNG	19,400	130	149	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HWE-7MC2-BDAN-NGN	HEEGMC4GNJNG	14,900	100	149	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HWE-4MC2-BDAN-NGN	HEE2MC4GNJNG	14,800	100	148	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HWE-LMC2-BDAN-NGN	HEELMC4GNJNG	14,600	100	146	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium
HWE-7MC2-ADAN-NGN	HEEGMC4DNJNG	11,600	80	145	100-277 VAC, 120-250 VDC	5000K	80	Clear Glass	Medium
HWE-4MC2-ADAN-NGN	HEE2MC4DNJNG	11,500	80	144	100-277 VAC, 120-250 VDC	5000K	80	Clear Polycarbonate	Medium
HWE-LMC2-ADAN-NGN	HEELMC4DNJNG	11,400	80	143	100-277 VAC, 120-250 VDC	5000K	80	Diffused Domed Polycarbonate	Medium

All values typical unless otherwise stated (tolerance +/- 10%)
Models in chart above are 5000K CCT. For 4000K CCT change the 6th character from C to N & deduct 3% from the lumen table.
Flat clear acrylic lens available. Consult local Dialight sales office for availability.
Occupancy sensor options available. Consult local Dialight sales office for availability.





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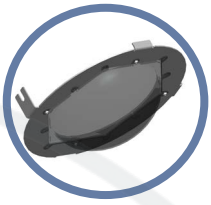
Vigilant® LED High Bay

Accessories & Beam Distribution

HBXW3-SSL-316M
- 316 stainless steel bracket

HBXW3-SSL-304M
- 304 stainless steel bracket

HBXCAB48
- 48" long stainless steel safety rope (for use with safety bracket)
- Includes 2 cables

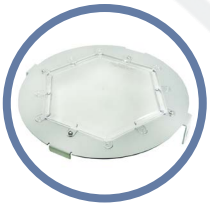


HBXSBDK
- Sand blast kit (dome lens)

HBXSBDL
- Sacrificial dome lens

HBXW3-SSL-316FTM
- 316 stainless steel forward throw bracket

HBXSB Safety Tabs
- 316 stainless steel
- Includes 4 tabs

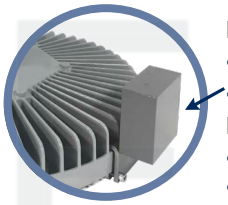


HBXSBK
- Sand blast kit (flat lens)

HBXSBL
- Sacrificial flat lens

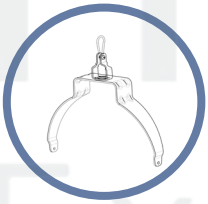
HBXW3
- Powder-coated aluminium swivel bracket

HBXFSIRREMOTE
- Remote for occupancy sensor

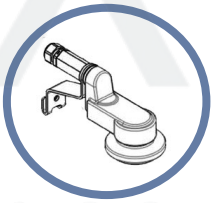


HBXCBOCCFSPG
- Sensor counterbalance
- Powder coated steel

HBXCBOCCFSPK
- Sensor counterbalance
- 316 stainless steel

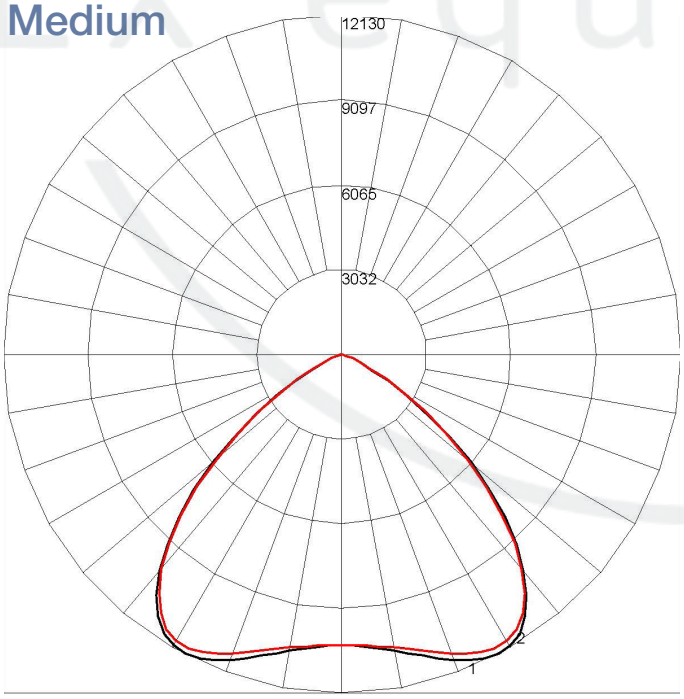


HBXW3EUHOOK
- Swivel bracket with hanging hook



HBXOCC100277E
- Field installable occupancy sensor for models prefixed with HWE or HCE

Medium



Maximum Candela = 12129.5 Located At Horizontal Angle = 0, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

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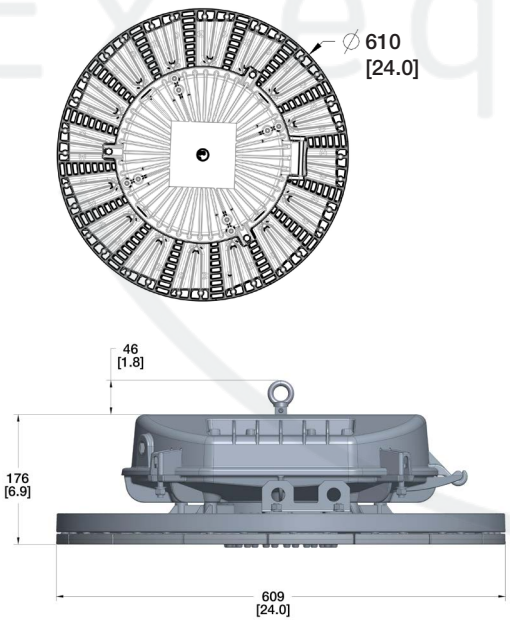
Vigilant® LED High Output High Bay - Low Profile

Technical Specification

Certifications & Ratings

- 10 year warranty
- CE / RCM / ENEC
- IP66/67
- IK10 (polycarbonate) / IK06 (glass)
- L70 > 150,000 hours
- Factory installed secondary retention bracket, optional safety cable accessory available



Dimensions in mm [inches]

Mechanical Information:

Weight (120-277 VAC):	21.8 kg (48 lbs)
Weight (415 VAC):	22.2 kg (49 lbs)
Shipping weight:	28.1 kg (62 lbs)
Mounting:	1x Hook
Wiring entries:	2x M25

Materials:

Housing:	A360 Die-cast aluminium
Finish:	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
Lens options:	Glass, Acrylic or Polycarbonate
Hardware:	316 Stainless Steel
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Electrical Specifications:

Operating voltage:	120-277 VAC, 50/60Hz 415 VAC, 50/60Hz
Total system power consumption:	See table
Operating temperature:	-40°C to +65°C
Harmonics:	IEC 61000-3-2 Class C
Surge protection:	Tested to IEC 61000-4-5 6kV/3kA, 1.2/50, 8/20us Combination wave Line-line and line-ground
THD:	< 20%
Power factor:	> 0.9

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white)

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

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Vigilant® LED High Output High Bay - Low Profile

Ordering Information & Mounting Accessories

Part Number	Fixture Lumen	Watt	lm/W	IP Rating	Voltage	CCT	Lens	Beam Distribution
H7E-7MC2-RDHN-NGN	70,500	485	145	IP66/67	120-277 VAC	5000K (cool white)	Glass	Medium
H7E-7NC2-RDHN-NGN	70,500	485	145	IP66/67	120-277 VAC	5000K (cool white)	Glass	Narrow
H7E-7MC2-NDHN-NGN	61,200	418	146	IP66/67	120-277 VAC	5000K (cool white)	Glass	Medium
H7E-7NC2-NDHN-NGN	61,200	418	146	IP66/67	120-277 VAC	5000K (cool white)	Glass	Narrow
H7E-7MC2-KDHN-NGN	46,000	300	153	IP66/67	120-277 VAC	5000K (cool white)	Glass	Medium
H7E-7NC2-KDHN-NGN	46,000	300	153	IP66/67	120-277 VAC	5000K (cool white)	Glass	Narrow

All values typical unless otherwise stated (tolerance +/- 10%).
Neutral white color temperature (4000K) is available for products in the above table. Replace the sixth character C with N.
415 VAC, 50/60Hz options available. Consult local Dialight sales office for availability.
Clear acrylic lens and clear polycarbonate lens available. Consult local Dialight sales office for availability

H6XCAB72

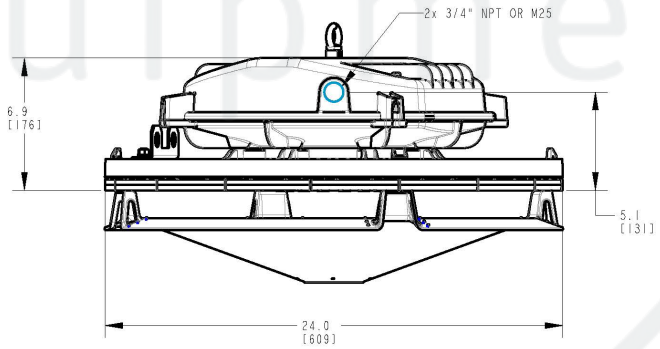
- 72" stainless steel safety rope
- Kit includes: (1) cable
- Two (2) cables required for each fixture

H6XCAB60

- 60" stainless steel safety rope
- Kit includes: (1) cable
- Two (2) cables required for each fixture

H6XDIFFUSER

- Diffuser
- Patent pending



Dimensions in inches [mm]

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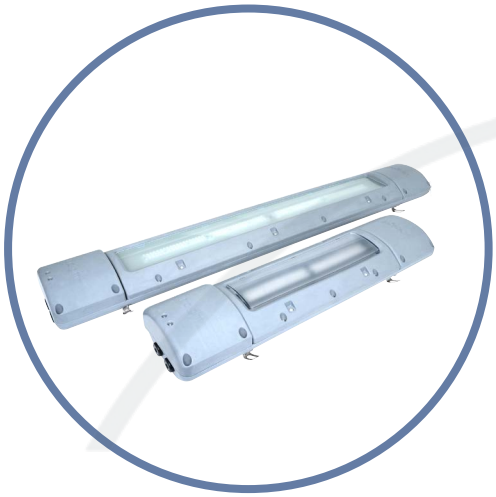
Vigilant® LED GRP Linear

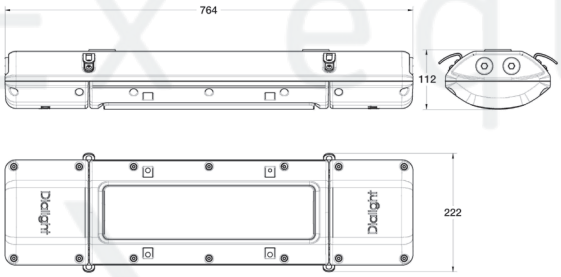
Technical Specification



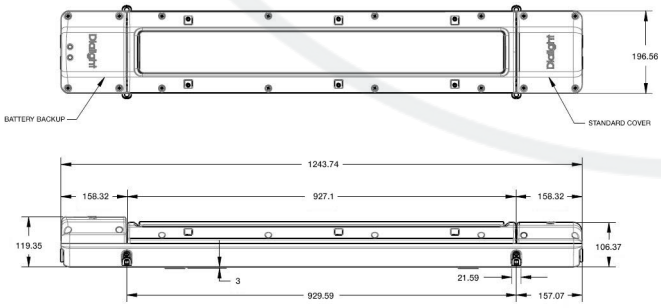
Certifications & Ratings

- 10 year warranty
- CE (EN 55015: 2006, EN 61547: 2009, EN 60598: 2008)
- RCM
- IP66/67
- IK08
- DALI 1.0/2.0 as standard
- Wireless controls available on select models (please consult factory)
- 2,785 & 5,575 (nominal) lumen outputs

764 mm Model



1244 mm Model



Dimensions in mm

Mechanical Information:

Fixture weights:
Standard model: 764 mm models: 7.7 kg
1244 mm models: 10.9 kg

Emergency model: 764 mm models: 8.6 kg
1244 mm models: 11.8 kg

Mounting: 2x M8 fixing points
Other mounting options available

Cable entry: 2x M25 cable entries at both ends, through wired as standard

Electrical Specifications:

Operating voltage: Standard:
100-277 VAC, 50/60Hz
120-250 VDC

Emergency:
230/240 VAC, 50Hz

Operating temperature:
Standard models: -40°C to +65°C
Emergency models: -20°C to +50°C

EMC: CISPR 15
Flicker: IEC 61000-3-3
Immunity requirements for lighting: IEC 61547
Harmonics: IEC 61000-3-2 Class C

Surge immunity: IEC 61000-4-5
6kV/3kA line-line & line-ground

THD: <20%

Power factor: > 0.9

Dimming: DALI 1 and DALI 2 compatible

Emergency Models:

Lumen output in EM mode: 600-900

Expected battery life*: 4 years

Battery duration*: 180 min. (standard)
60/90 min. (optional, field-configurable)

Initial lumen output:
2ft models: 60/90/180 min. = 25%
4ft models: 60 min. = 14%
90/180 min. = 11%

Power Supply:

ALT:
(accelerated life testing) Over 15 yr equivalent at 24/7 service

MTBF:
(mean time between failures) Over 300 years with annual failure rate less than 0.3% expected

Driver: Fully potted and sealed for superior protection

Materials:

Housing: Glass-reinforced polyester

Lens: Diffused (textured) polycarbonate convex lens (standard)
Diffused flat glass lens (optional)

Mounting brackets: 316 stainless steel

Vibration: Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only

Shock: 50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI: 80 minimum

CCT: 5000K (cool white)
4000K (neutral white)

Green (Shower-Safe/Eye-wash station model) & Amber versions available. Please consult your local Dialight representative

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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Vigilant® LED GRP Linear

Ordering Information, Accessories & Beam Distribution

Part Number	Fixture Lumens (Nominal)	Wattage	lm/W	Voltage	CCT	Lens
Industrial Models (Standard)						
P2EBMC23A54WGN	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4EBMC26A54WGN	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2EBMN23A54WGN	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4EBMN26A54WGN	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Industrial Models (Emergency Backup)						
P2EBMC23A54WGG	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4EBMC26A54WGG	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2EBMN23A54WGG	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4EBMN26A54WGG	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
Shower-Safe/Eye-Wash Station Version - Industrial (Emergency Backup)						
P2EBMG23A54WGG		29		230/240 VAC	Green	Textured Polycarbonate
P4EBMG26A54WGG		51		230/240 VAC	Green	Textured Polycarbonate

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

ELX-CMB-SS

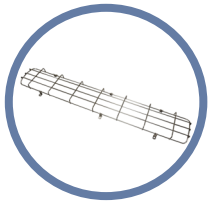
- (2) 316 Marine Grade stainless steel ceiling mount kit

HBXCAB48

- 1.2m long stainless steel safety rope (for use with safety bracket)

ELX-EYE-SS

- 316 Marine Grade stainless steel eyelet kit



RLX-WG-2

- Wire guard for 764mm model

RLX-WG-4

- Wire guard for 1244mm model

ELX-WMB-SS-45

- (2) 45° 316 Marine Grade stainless steel wall mount kit

ELX-WMB-SS-60

- (2) 60° 316 Marine Grade stainless steel wall mount kit

RLX-BATT-KIT-2

- 764mm replacement battery kit

RLX-BATT-KIT-4

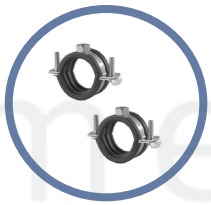
- 1244mm replacement battery kit

RL-WIRELESS-2*

- Wireless controls kit for 764mm models

RL-WIRELESS-4*

- Wireless controls kit for 1244mm models



ELX-PC-SS-42

- (2) 40–45mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-47

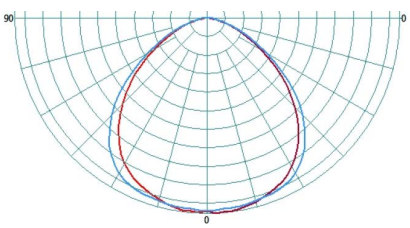
- (2) 47–51mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-54

- (2) 54–57mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-59

- (2) 59–62mm Ø 316 Marine Grade stainless steel pole clamp



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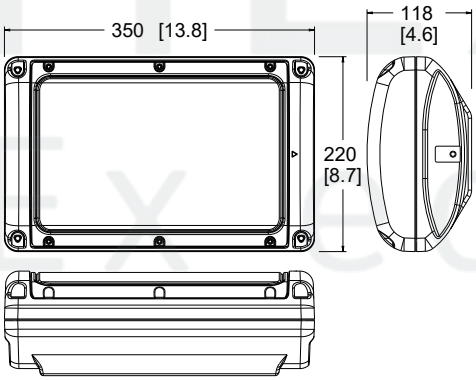
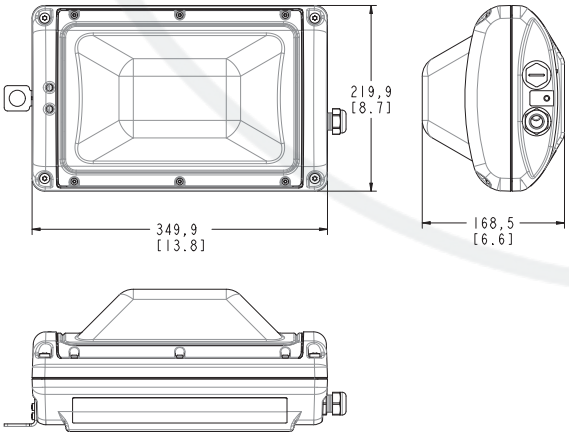
Vigilant® LED Bulkhead

Technical Specification

Certifications & Ratings

- 10 year warranty
- CE / ENEC / UKCA
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C ambient





Dimensions in mm (inches)

Mechanical Information:

Fixture weights:	
Standard models:	6.8 kg (15.0 lb)
Battery backup models:	7.7 kg (17 lb)
Shipping weights:	
Standard models:	7.3 kg (16.1 lb)
Battery backup models:	8.4 kg (18.5 lb)
Cable entry:	2x M20 - optional 4x M20

Materials:

Housing:	A360 Die-cast aluminium
Finish:	Superior dual coat finish - Sealed polyester topcoat - Epoxy primer
Lens:	Polycarbonate clear Polycarbonate diffused (optional) Polycarbonate domed diffused
Hardware:	316 Stainless Steel
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Electrical Specifications:

Operating voltage:	
Standard models:	100-277 VAC / 120-250 VDC
Battery backup models:	110/120 VAC, 230/240 VAC
Operating temperature:	
Standard models:	-40°C to +65°C
Battery backup models:	-20°C to +55°C
Surge protection:	6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
THD:	< 18%
Power factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible 0-10 VDC continuous dimming to <10%

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):	
6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
3k lumen outputs:	180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
Expected battery life:	4 years

Photometric Information:

Lumen output*:	3,000 & 6,500 lm (white light)
CRI:	> 80 (white light)
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white) Amber Green

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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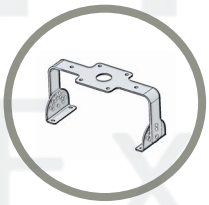
Vigilant® LED Bulkhead

Ordering Information & Accessories

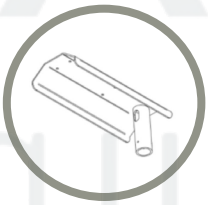
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Standard Models with Flush Bracket							
BHE-4BC2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4BC2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UC2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Battery Backup Models with Flush Bracket							
BHE-4BCG-3NFN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4BCG-6NFN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4UCG-3NFN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UCG-6NFN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
For 4000K (neutral white), 2700k (warm white) or amber CCT, please contact your local representative for more information.



BH-BRKT-SS-ADJ

- 316 stainless steel adjustable bracket kit

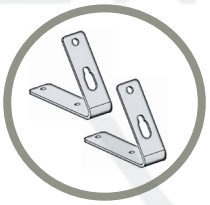


BH-STMB-05-10-HD

- Aluminium stanchion mount, 5° up-tilt - 50mm pole

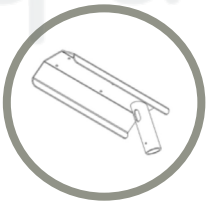
H6XCAB72

- 72" stainless steel safety rope



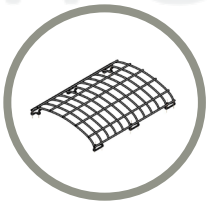
BH-BRKT-A-KIT

- (2) 316 stainless steel wall/ceiling flush mount bracket kit



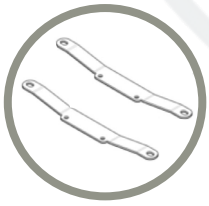
BH-STMB-25-10-HD

- Aluminium stanchion mount, 25° up-tilt - 50mm pole



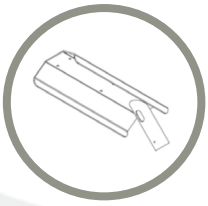
BH-WG-KIT

- Stainless steel wire guard kit



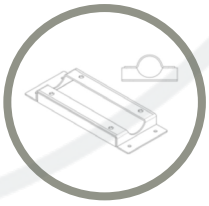
BH-BRKT-F-KIT

- (2) 316 stainless steel wall/ceiling flush mount bracket kit



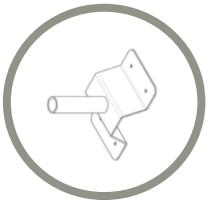
BH-STMB-45-10-HD

- Aluminium stanchion mount, 45° up-tilt - 50mm pole



BH-BRKT-LG-PF

- Aluminium pipe mount bracket kit - 50mm



HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm

Please consult local Dialight sales office for availability.
Reference page 47 for additional mounting dimensions.

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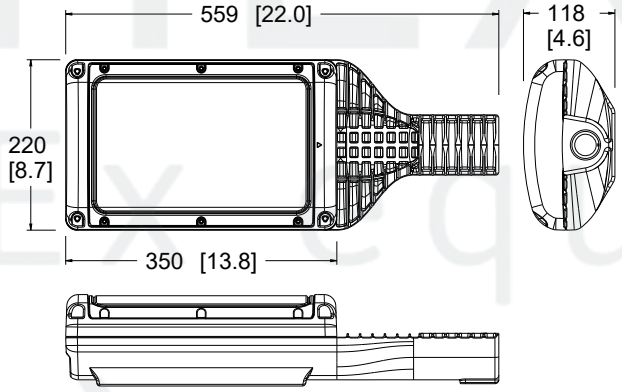
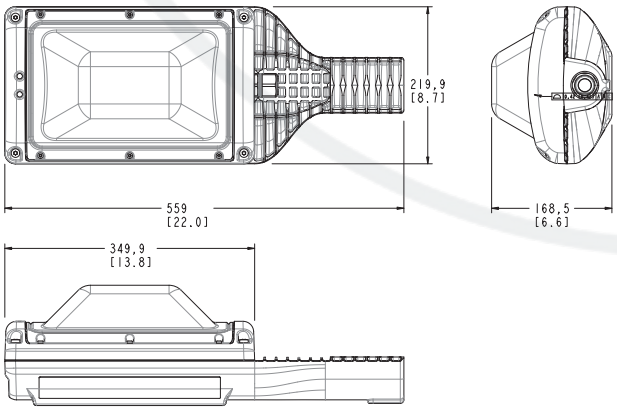
Vigilant® LED Bulkhead - Pole Mount Model

Technical Specifications

Certifications & Ratings

- 10 year warranty
- CE / ENEC / UKCA
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C ambient





Dimensions in mm (inches)

Mechanical Information:

Fixture weights:	
Standard models:	7.9 kg (17.4 lb)
Battery backup models:	8.8 kg (19.4 lb)
Shipping weights:	
Standard models:	8.4 kg (18.5 lb)
Battery backup models:	9.3 kg (20.5 lb)
Cable entry:	1x M25
Spigot entry size:	44mm ID Optional 35mm ID

Materials:

Housing:	A360 Die-cast aluminium
Finish:	Superior dual coat finish - Sealed polyester topcoat - Epoxy primer
Lens:	Polycarbonate clear Polycarbonate diffused (optional) Polycarbonate domed diffused
Hardware:	316 Stainless Steel
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Electrical Specifications:

Operating voltage:	
Standard models:	100-277 VAC / 120-250 VDC
Battery backup models:	110/120 VAC, 230/240 VAC
Operating temperature:	
Standard models:	-40°C to +65°C
Battery backup models:	-20°C to +55°C
Surge protection:	6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
THD:	< 18%
Power factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible 0-10 VDC continuous dimming to <10%

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):	
6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
3k lumen outputs:	180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
Expected battery life:	4 years

Photometric Information:

Lumen output*:	3,000 & 6,500 lm (white light)
CRI:	> 80 (white light)
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white) Amber Green

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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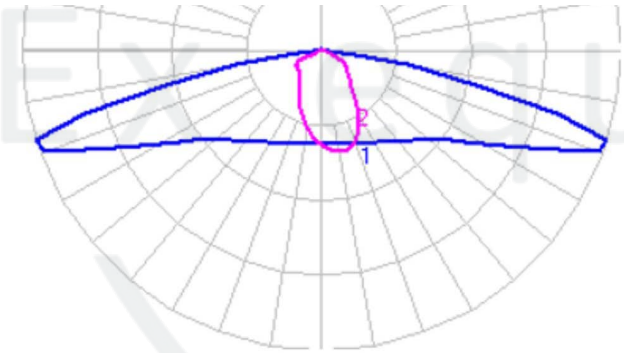
Vigilant® LED Bulkhead - Pole Mount Model

Ordering Information

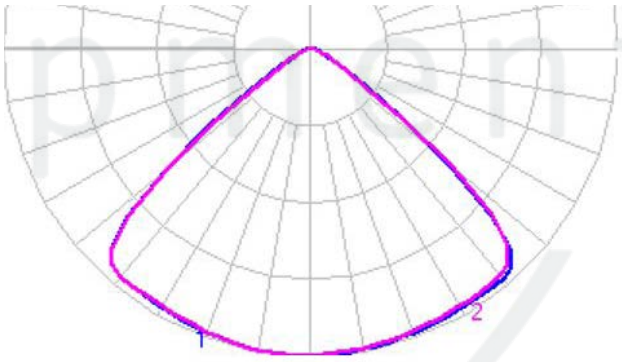
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Pole Mount Models							
BZE-4BC2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZE-4BC2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZE-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZE-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Pole Mount Battery Backup Models							
BZE-4BCG-3NNN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZE-4BCG-6NNN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZE-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZE-4UCG-6NNN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZE-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

All values typical unless otherwise stated (tolerance +/- 10%).
For 4000K (neutral white), 2700k (warm white) or amber CCT, please contact your local representative for more information.
35mm spigot entry model available. For spigot entry size 35mm change the second character from 'Z' to 'P'.

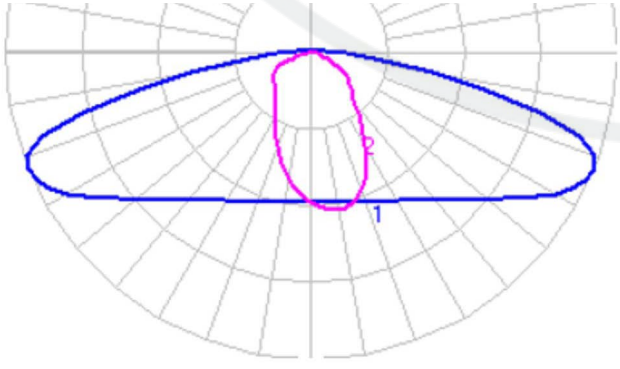
Ultra-Wide Walkway (Type 1) - Clear



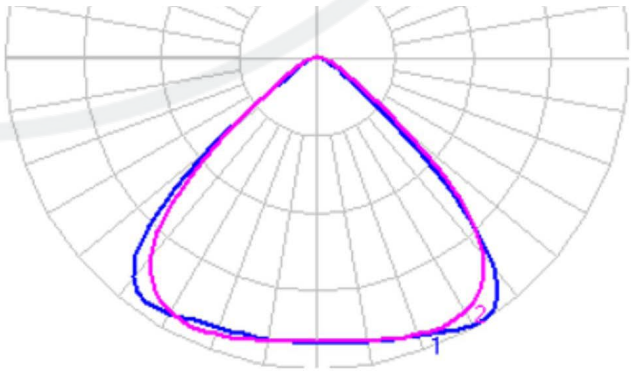
Circular - Clear



Ultra-Wide Walkway (Type 1) - Diffused



Circular - Diffused



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SafeSite® LED High Bay

Technical Specification

Certifications & Ratings (All Models)

- IECEx/ATEX Zones 1, 21
- IECEx/ATEX Zones 2, 22
- CE
- ABS Design Assessed: (pending)
- IP66
- IK10
- RoHS compliant
- HEA IECEx BAS 10.0074X BaseefaATEX0148X
- HEH IECEx BAS 12.0044X Baseefa12ATEX0070X

Certifications & Ratings (IIB Models)

- Ex II 2 GD
- Ex d* IIB T4 Gb
- Ex tb IIIC 135°C Db

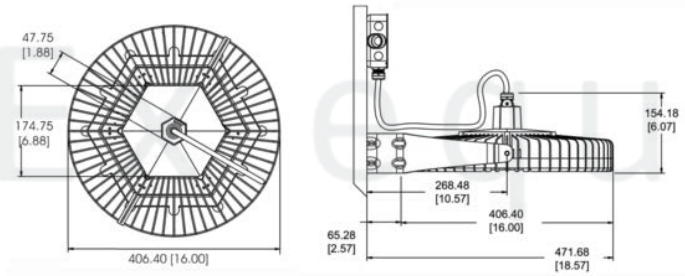
*Add Ex e for factory fitted junction box

Certifications & Ratings (IIB + Hydrogen Models)

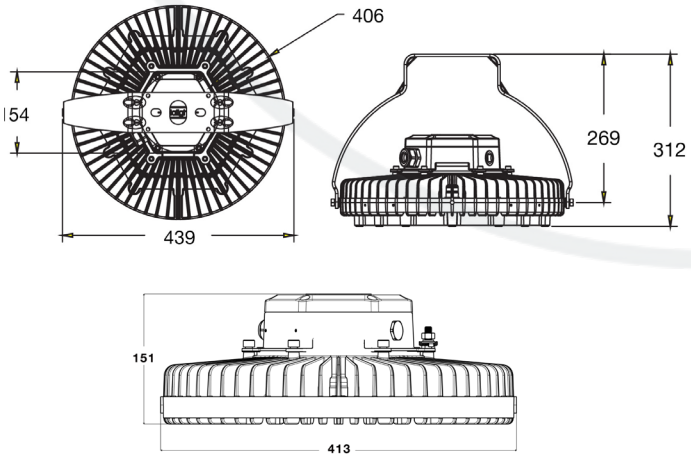
- Ex II 2 GD
- Ex d* IIB+H2 T4 Gb
- Ex tb IIIC 135°C Db

*Add Ex e for factory fitted junction box

Fixed Cable Models



Junction Box Models



Dimensions in mm

Mechanical Information:

Fixture weight:
Fixed cable model: 14.6 kg
Junction box model: 16.1 kg

Mounting (included): Aluminium stirrup mounting bracket

Cabling:
Fixed cable model: Factory installed 3 meter SWB cable
Junction box model: Factory fitted junction terminal box with 2 off M20 x 1.5mm or 2 off M25 x 1.5mm cable entries

Terminals: $4mm^2$ x 3

Electrical Specifications:

Operating voltage:
110 – 277V AC, 50/60Hz: 23,500lm models
100 – 277V AC, 50/60Hz: 16,000lm and lower models

Dimming: DALI 2.0 compatible (HWA models)

Operating temperature: -40°C to +60°C

Total system power consumption: See ordering table

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

Power Supply:

ALT: (accelerated life testing) Over 15 yr equivalent at 24/7 service

MTBF: (mean time between failures) Over 300 years with annual failure rate less than 0.3% expected

Driver: Fully potted and sealed for superior protection

Construction:

Housing: Copper-free aluminium

Lens: Tempered glass (optional fragment retention film available)

Fixture finish: Superior dual coat finish
- Sealed polyester topcoat
- Chemical resistant epoxy primer

Vibration: Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only

Shock: 50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI: 75
80 typical

CCT: 5000K (cool white)
4000K (neutral white)

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

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SafeSite® LED High Bay

Ordering Information & Mounting Accessories

Part Number	Lumens	Wattage	lm/W	Voltage	Colour Temperature (CCT)	Lens	Beam Distribution
Hydrogen Environment - Standard Models							
HEH9MC4PN-KCG	23,500	212	110	110-277 VAC	5000K (cool white)	Glass	Medium
HEH9MC4KN-KCG	16,000	144	110	100-277 VAC	5000K (cool white)	Glass	Medium
HEH9MC4GN-KCG	12,500	112	110	100-277 VAC	5000K (cool white)	Glass	Medium
HEH9MC4DN-KCG	9,650	88	110	100-277 VAC	5000K (cool white)	Glass	Medium

All values typical unless otherwise stated (tolerance +/- 10%).
Models in chart above are 5000K CCT. For 4000K CCT change the 6th character from C to N & deduct 3% from the lumen table.
For optional glass fragment retention film, change the 11th character from a C to a F.
Junction box models come standard with M25 entries. For M20 cable entries and leaded versions please consult local Dialight sales office for availability.

HBXW3
- Aluminium swivel bracket (included with fixture)

HBXSBK
- Sand blast kit (flat lens)

HBXSBL
- Sacrificial flat lens

HBXW3-SSL-316M
- 316 Stainless steel bracket

HBXW3-SSL-304M
- 304 Stainless steel bracket

HBXSBDK
- Sand blast kit (dome lens)

HBXSBDL
- Sacrificial dome lens

HBXW3-SSL-316FT
- 316 Stainless steel forward throw bracket

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SafeSite® LED High Bay - High Efficiency

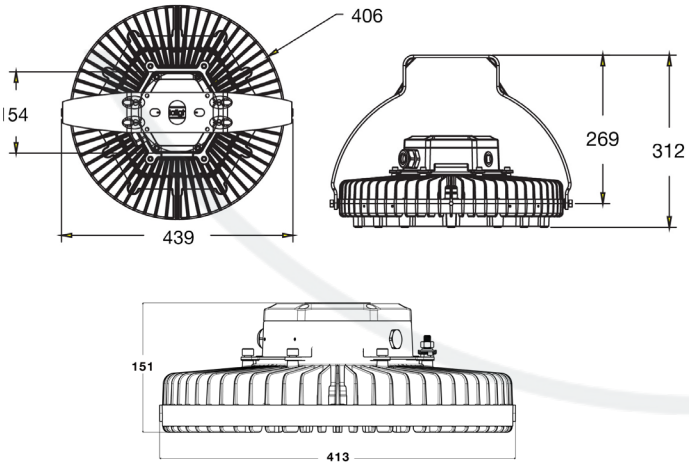
Technical Specification

Certifications & Ratings (All Models)

- 10 year warranty
- ATEX / IECEx Zones 1, 21
- ATEX / IECEx Zones 2, 22
- CE
- IP66
- L70 rated for >150,000 hours @ 25°C ambient
- RoHS compliant

Certifications & Ratings

- Ex II 2 GD
- Ex db eb IIB T5 Gb
  Ex tb IIIC T100°C Db
- Certificate numbers:
  Sira 18ATEX1001X
  IECEx SIR 18.0001X



Dimensions in mm

Mechanical Information:

Fixture weight:	15.5 kg (34 lb)
Mounting:	Aluminum mounting bracket (included)
Wiring options for Junction Box models:	2 off M25 x 1.5mm cable entries

Electrical Specifications:

Operating voltage:	100-277 VAC, 120-250 VDC
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

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

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)
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI:	80 typical
CCT:	5000K (cool white) 4000K (neutral white)

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

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SafeSite® LED High Bay - High Efficiency

Ordering Information & Mounting Accessories

Part Number	Lumens	Wattage	lm/W	Voltage	Colour Temperature (CCT)	Lens	Beam Distribution
Junction Box Models with Aluminium Swivel Bracket							
HWA-7MC2-EAAN-NGN	25,900	185	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Medium
HWA-7WC2-EAAN-NGN	25,900	185	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Wide
HWA-7NC2-EAAN-NGN	25,900	185	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Narrow
HWA-7MC2-CAAN-NGN	18,600	130	143	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Medium
HWA-7WC2-CAAN-NGN	18,600	130	143	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Wide
HWA-7NC2-CAAN-NGN	18,600	130	143	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Narrow
HWA-7MC2-BAAN-NGN	14,000	100	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Medium
HWA-7WC2-BAAN-NGN	14,000	100	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Wide
HWA-7NC2-BAAN-NGN	14,000	100	140	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Narrow
HWA-7MC2-AAAN-NGN	10,950	80	137	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Medium
HWA-7WC2-AAAN-NGN	10,950	80	137	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Wide
HWA-7NC2-AAAN-NGN	10,950	80	137	100-277 VAC, 120-250 VDC	Cool White 5000K	Clear Tempered Glass	Narrow

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
Pre-wired models available for products in the above table. Replace the second character W with E, replace the eleventh character with a W.
Ex: HWA-7MC2-ENAN-NGN becomes HEA-7MC2-ENAW-NGN.

HBXW3-SSL-316M

- 316 stainless steel bracket

HBXW3

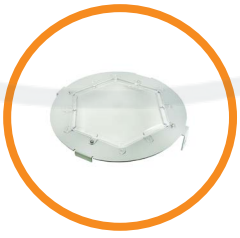
- Aluminium swivel bracket (included with fixture)

HBXSBDK

- Sand blast kit (dome lens)

HBXSBDL

- Sacrificial dome lens



HBXSBK

- Sand blast kit (flat lens)

HBXSBL

- Sacrificial flat lens

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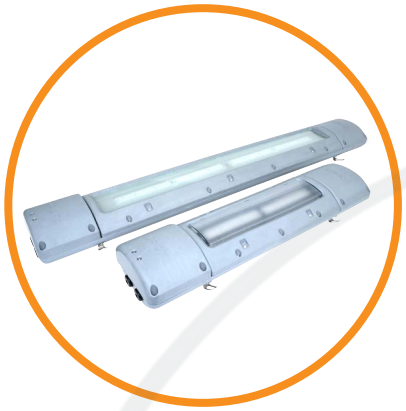
SafeSite® LED GRP Linear - ATEX / IECEx

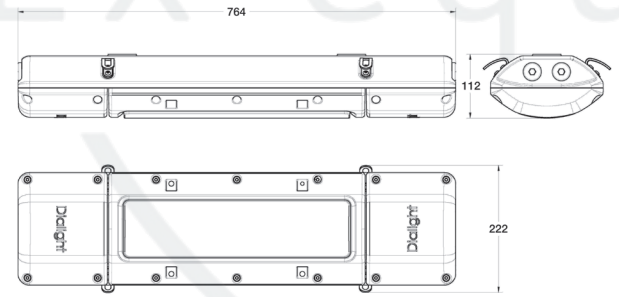
Technical Specification



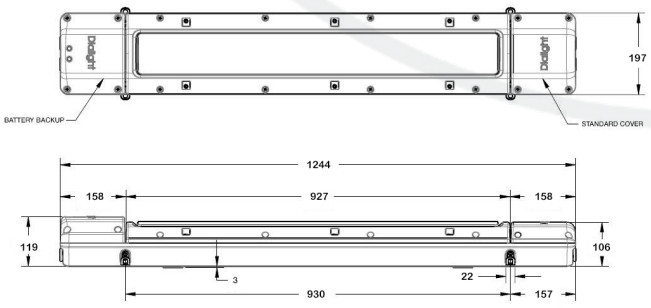
Certifications & Ratings

- 10 year warranty
- CE
- IP66/67
- IK08
- ATEX/IECEx Zone 1, 21
  - Ex eb mb op is IIC T5/T4 Gb
  - Ex tb op is IIIC 95°C/ T130°C Db
  - Sira 19ATEX4226X, IECEx SIR 19.0068X
- ATEX/IECEx Zone 2, 22 and 21
  - Ex ec IIC T4 / T5 Gc
  - Ex tc IIIC T95°C / 130°C Dc
  - Ex tb op is IIIC T95°C / 130°C Db
  - Sira 19ATEX9228X, IECEx SIR 19.0069X
- DALI 1.0/2.0 as standard
- Up to 2,875 & 5,750 (nominal) lumen outputs
- Available in 764 mm & 1244 mm models
- Wireless controls available on select models (Zone 2 models only, please consult factory)

764 mm Model



1244 mm Model



Dimensions in mm

Mechanical Information:

Fixture weights: Standard model:	764 mm models: 7.9 kg 1244 mm models: 10.9 kg
Emergency model:	764 mm models: 8.7 kg 1244 mm models: 11.9 kg
Mounting:	2x M8 fixing points Other mounting options available
Cable entry:	2x M25 cable entries at both ends, through wired as standard. Consult factory for other options.
Safety Retention:	4x 316 Stainless steel tabs as standard

Electrical Specifications:

Operating voltage:	Standard: 100-277 VAC, 50/60Hz 120-250 VDC Emergency: 230/240 VAC, 50Hz 110/120 VAC, 60Hz
Operating temperature: Standard models: Emergency models:	 -40°C to +65°C -20°C to +50°C
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Surge immunity:	IEC 61000-4-5 6kV/3kA line-line & line-ground
THD:	<20%
Power factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible

Emergency Models:

Lumen output in EM mode:	10-25% of initial light output (depending on selected duration and length of fitting)
Expected battery life*:	4 years
Battery duration*:	180 min. (standard) 60/90 min. (optional, field-configurable
Initial lumen output: 2ft models: 4ft models:	 60/90/180 min. = 25% 60 min. = 14% 90/180 min. = 11%

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Materials:

Housing:	Glass-reinforced polyester
Lens:	Diffused (textured) polycarbonate convex lens (standard) Diffused flat glass lens (optional)
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

CRI:	80 minimum
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white) Green (Shower-Safe/Eye-wash station model) versions available. Please consult your local Dialight representative

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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SafeSite® LED GRP Linear - ATEX / IECEx

Ordering Information

Part Number	Length	Fixture Lumens (Nominal)	Wattage	lm/W	Voltage	CCT	Lens
Zone 1, 2, 21 & 22 Models (Standard)							
P2ABMC23A54WGN	746 mm	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4ABMC26A54WGN	1244 mm	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2ABMN23A54WGN	746 mm	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4ABMN26A54WGN	1244 mm	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Zone 2, 21 & 22 Models (Standard)							
P2BBMC23A54WGN	746 mm	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4BBMC26A54WGN	1244 mm	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2BBMN23A54WGN	746 mm	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4BBMN26A54WGN	1244 mm	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Zone 1, 2, 21 & 22 Models (Emergency Backup)							
P2ABMCG3A54WGG	746 mm	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4ABMCG6A54WGG	1244 mm	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2ABMNG3A54WGG	746 mm	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4ABMNG6A54WGG	1244 mm	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
Zone 2, 21 & 22 Models (Emergency Backup)							
P2BBMC23A54WGG	746 mm	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4BBMC26A54WGG	1244 mm	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2BBMN23A54WGG	746 mm	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4BBMN26A54WGG	1244 mm	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
Shower-Safe/Eye-Wash Station Version - Zone 1, 2, 21 & 22 (Emergency Backup)							
P2ABMGG3A54WGG	746 mm		29		230/240 VAC	Green	Textured Polycarbonate
P4ABMGG6A54WGG	1244 mm		51		230/240 VAC	Green	Textured Polycarbonate
Shower-Safe/Eye-Wash Station Version - Zone 2, 21 & 22 (Emergency Backup)							
P2BBMG23A54WGG	746 mm		29		230/240 VAC	Green	Textured Polycarbonate
P4BBMG26A54WGG	1244 mm		51		230/240 VAC	Green	Textured Polycarbonate

All values typical unless otherwise stated (tolerance +/- 10%).
2700K options available, please consult local Dialight sales office for availability.

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SafeSite® LED GRP Linear - ATEX / IECEx

Mounting Accessories

ELX-CMB-SS

- (2) 316 Marine Grade stainless steel ceiling mount kit

ELX-PC-SS-42

- (2) 37-44mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-47

- (2) 44-50mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-54

- (2) 50-58mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-59

- (2) 58-68mm Ø 316 Marine Grade stainless steel pole clamp

ELX-WMB-SS-45

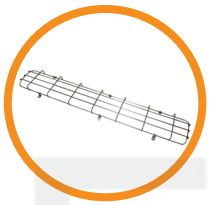
- (2) 45° 316 Marine Grade stainless steel wall mount kit

ELX-WMB-SS-60

- (2) 60° 316 Marine Grade stainless steel wall mount kit

HBXCAB48

- 48" long stainless steel safety rope (for use with safety bracket)



RLX-WG-2

- Wire guard for 764mm model

RLX-WG-4

- Wire guard for 1244mm model

RLX-BATT-KIT-2

- 764mm replacement battery kit

RLX-BATT-KIT-4

- 1244mm replacement battery kit

RL-WIRELESS-2*

- Wireless controls kit for 764mm models (Zone 2 only)

RL-WIRELESS-4*

- Wireless controls kit for 1244mm models (Zone 2 only)

ELX-EYE-SS

- 316 Marine Grade stainless steel eyelet kit

*Must be fitted to GRP Linear by authorized Dialight personnel prior to delivery

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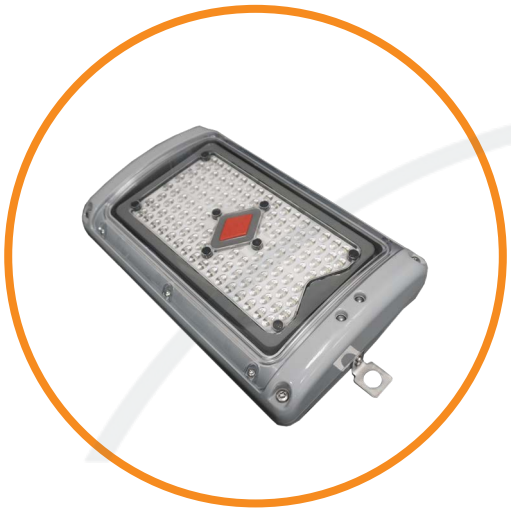
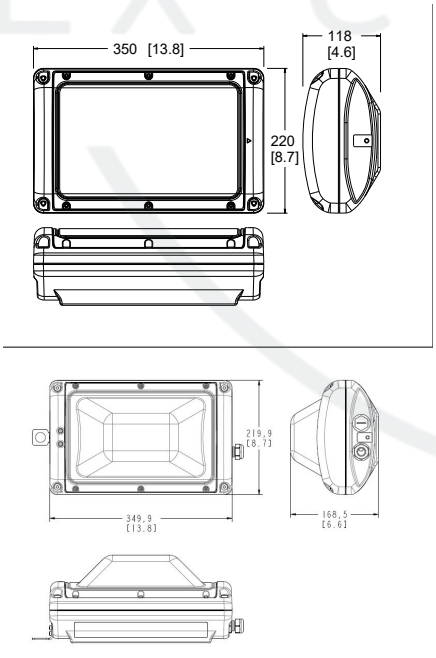
SafeSite® LED Bulkhead

Technical Specifications



Certifications & Ratings

- 10 year warranty
- ATEX / IECEx Zone 1, 21
  - Ex eb mb IIC T4 Gb
  - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
  - Ex ec IIC T4 Gc
  - Ex tc IIIC T130°C Dc
- Ta = -40°C to +65°C for standard models
- Ta = -20°C to +55°C for battery backup models
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F)



Dimensions in mm (inches)

Mechanical Information:

Fixture weights:
Standard models: 6.8 kg (15.0 lb)

Battery backup models: 7.7 kg (17 lb)

Shipping weights:
Standard models: 7.3 kg (16.1 lb)

Battery backup models: 8.4 kg (18.5 lb)

Cable entry: 2x M20 - optional 4x M20

Materials:

Housing: A360 Die-cast aluminium

Finish: Superior dual coat finish
- Sealed polyester topcoat
- Epoxy primer

Lens: Polycarbonate clear
Polycarbonate diffused (optional)
Polycarbonate domed diffused

Hardware: 316 Stainless Steel

Electrical Specifications:

Operating voltage:
Standard models: 100-277 VAC / 120-250 VDC
Battery backup models: 110/120 VAC, 230/240 VAC

Operating temperature:
Standard models: -40°C to +65°C
Battery backup models: -20°C to +55°C

Surge protection: 6kV/3kA, 1.2/50, 8/20us
Combination Wave
Line-line and line-ground

THD: < 18%

Power factor: > 0.9

Dimming: DALI 1 and DALI 2 compatible
0-10 VDC continuous dimming to <10%

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):
6.5k lumen outputs: 180 mins ~ 900 lm
90 mins ~ 1100 lm
60 mins ~ 1140 lm
3k lumen outputs: 180 mins ~ 800 lm
90 mins ~ 1100 lm
60 mins ~ 1140 lm

Expected battery life: 4 years

Photometric Information:

Lumen output*: 3,000 & 6,500 lm (white light)

CRI: > 80 (white light)

CCT: 5000K (cool white)
4000K (neutral white)
2700K (warm white)
Amber
Green

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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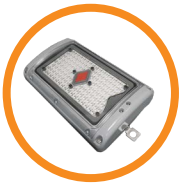
SafeSite® LED Bulkhead

Ordering Information



Zone 1, 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Standard Models with Flush Bracket							
BHA-4BC2-3NFN-VGN	3,300	22	153	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4BC2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UC2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BN2-3NFN-VGN	3,300	22	153	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4BN2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4UN2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UN2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BA2-5NFN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
Battery Backup Models with Flush Bracket							
BHA-4BCG-3NFN-VGG	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4BCG-6NFN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4UCG-3NFN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UCG-6NFN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BNG-3NFN-VGG	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4BNG-6NFN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4UNG-3NFN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UNG-6NFN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

Zone 2, 22 or Zone 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Standard Models with Flush Bracket							
BHB-4BC2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4BC2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UC2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4BN2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4BN2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4UN2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UN2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4BA2-5NFN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
Battery Backup Models with Flush Bracket							
BHB-4BCG-3NFN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4BCG-6NFN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4UCG-3NFN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UCG-6NFN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4BNG-3NFN-VGG	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4BNG-6NFN-VGG	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4UNG-3NFN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UNG-6NFN-VGG	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
2700k models available on request

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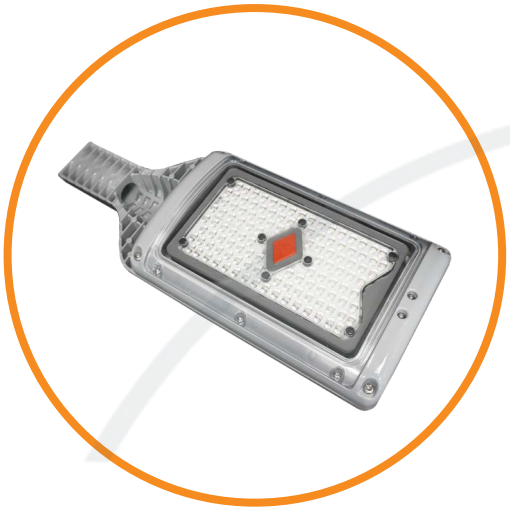
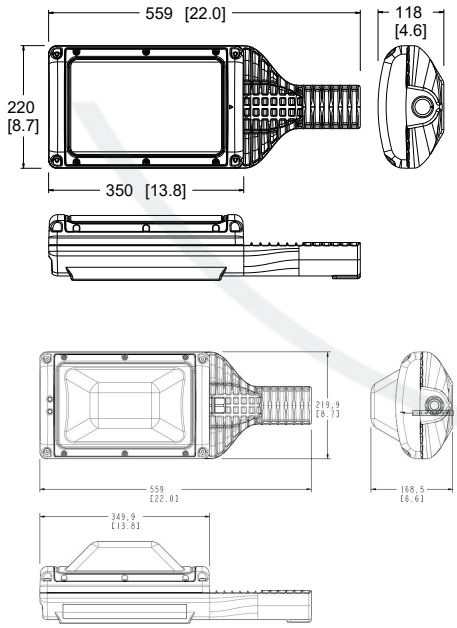
SafeSite® LED Bulkhead

Technical Specifications



Certifications & Ratings

- 10 year warranty
- ATEX / IECEx Zone 1, 21
  - Ex eb mb IIC T4 Gb
  - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
  - Ex ec IIC T4 Gc
  - Ex tc IIIC T130°C Dc
- Ta = -40°C to +65°C for standard models
- Ta = -20°C to +55°C for battery backup models
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F)



Dimensions in mm (inches)

Mechanical Information:

Fixture weights:	
Standard models:	7.9 kg (17.4 lb)
Battery backup models:	8.8 kg (19.4 lb)
Shipping weights:	
Standard models:	8.4 kg (18.5 lb)
Battery backup models:	9.3 kg (20.5 lb)
Cable entry:	1x M25
Spigot entry size:	44mm ID Optional 35mm ID

Materials:

Housing:	A360 Die-cast aluminium
Finish:	Superior dual coat finish - Sealed polyester topcoat - Epoxy primer
Lens:	Polycarbonate clear Polycarbonate diffused (optional) Polycarbonate domed diffused
Hardware:	316 Stainless Steel

Electrical Specifications:

Operating voltage:	
Standard models:	100-277 VAC / 120-250 VDC
Battery backup models:	110/120 VAC, 230/240 VAC
Operating temperature:	
Standard models:	-40°C to +65°C
Battery backup models:	-20°C to +55°C
Surge protection:	6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
THD:	< 18%
Power factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible 0-10 VDC continuous dimming to <10%

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):	
6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
3k lumen outputs:	180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
Expected battery life:	4 years

Photometric Information:

Lumen output*:	3,000 & 6,500 lm (white light)
CRI:	> 80 (white light)
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white) Amber Green

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

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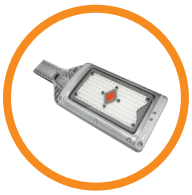
SafeSite® LED Bulkhead

Ordering Information



Zone 1, 2, 21 and 22

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Pole Mount Models							
BZA-4BC2-3NNN-VGN	3,300	22	153	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZA-4BC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZA-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4UC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4BN2-3NNN-VGN	3,300	22	153	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BZA-4BN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BZA-4UN2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4UN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Pole Mount Battery Backup Models							
BZA-4BCG-3NNN-VGG	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZA-4BCG-6NNN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZA-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4UCG-6NNN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4BNG-3NNN-VGG	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BZA-4BNG-6NNN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BZA-4UNG-3NNN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-4UNG-6NNN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZA-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

Zone 2, 21 and 22

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Pole Mount Models							
BZB-4BC2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZB-4BC2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BZB-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4BN2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BZB-4BN2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BZB-4UN2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4UN2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4BA2-5NNN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
Pole Mount Battery Backup Models							
BZB-4BCG-3NNN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZB-4BCG-6NNN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BZB-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4UCG-6NNN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4BNG-3NNN-VGG	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BZB-4BNG-6NNN-VGG	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BZB-4UNG-3NNN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-4UNG-6NNN-VGG	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BZB-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

All values typical unless otherwise stated (tolerance +/- 10%).
Part numbers listed in **bold** are typically available in stock.
2700k models available on request
35mm spigot entry option available. For spigot entry size 35mm change the second character from 'Z' to 'P'.

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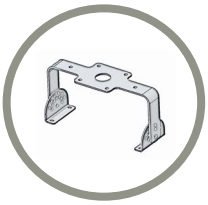
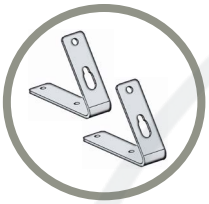
SafeSite® LED Bulkhead

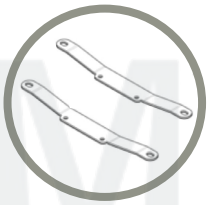
Accessories & Dimensional Drawings



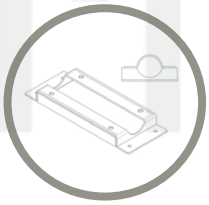
BH-BRKT-SS-ADJ
- 316 stainless steel adjustable bracket kit



BH-BRKT-A-KIT
- (2) 316 stainless steel wall/ceiling flush mount bracket kit

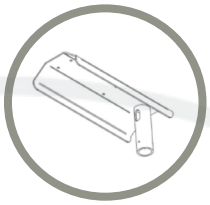


BH-BRKT-F-KIT
- (2) 316 stainless steel wall/ceiling flush mount bracket kit

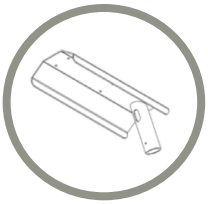


BH-BRKT-LG-PF
- Aluminium pipe mount bracket kit - 50mm

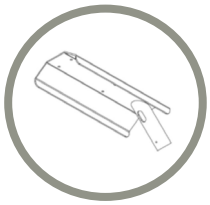
H6XCAB72
- 72" stainless steel safety rope



BH-STMB-05-10-HD
- Aluminium stanchion mount, 5° up-tilt - 50mm pole

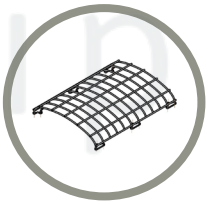


BH-STMB-25-10-HD
- Aluminium stanchion mount, 25° up-tilt - 50mm pole



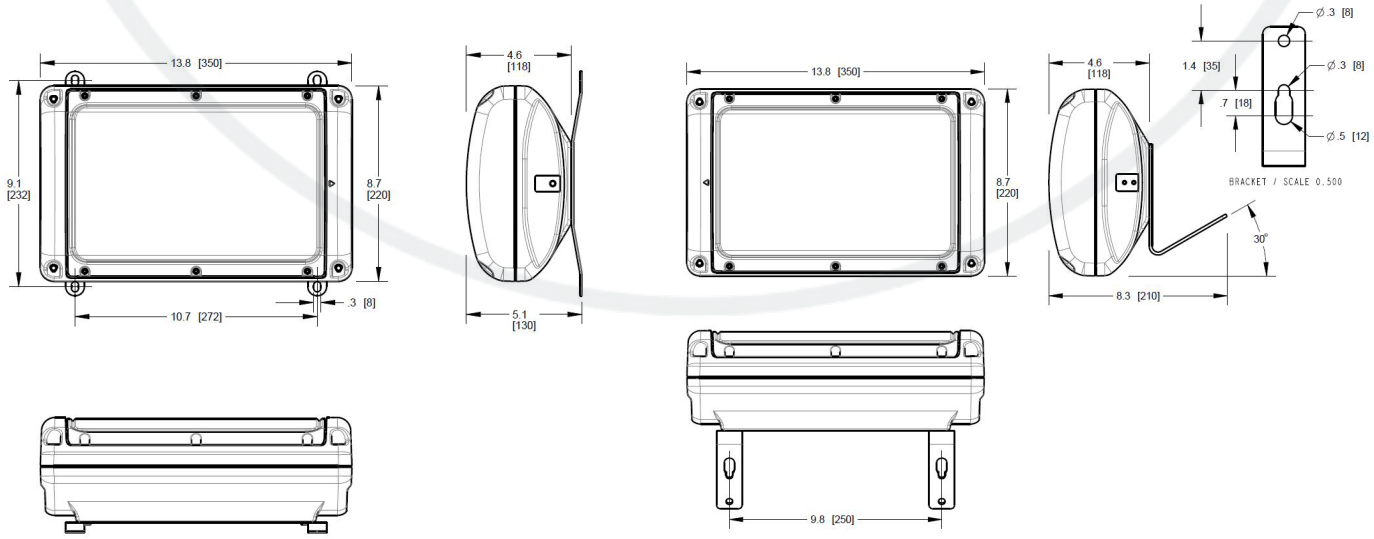
BH-STMB-45-10-HD
- Aluminium stanchion mount, 45° up-tilt - 50mm pole

HZX-SPIGOT-34
- Aluminium wall mount spigot plate - 34mm



BH-WG-KIT
- Stainless steel wire guard kit

Please consult local Dialight sales office for availability.



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Obstruction LED Lighting

ICAO & FAA

Red LED Systems: Medium Intensity ICAO Type B/Type C

Features & Benefits

- Integrated controller
- 5 year warranty
- Universal 120-240 VAC input
- Controller can be mounted at the base of the structure
- Wide temperature range: -40°C to +55°C
- Configurable flash rates (20, 30, or 40 flashes per min)
- Ability to operate lights in steady or flashing mode
- Optional infrared light fixtures
- Light weight design
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provision for padlock on the enclosure
- Dry contacts for alarm monitoring/status
  - Photocell alarm
  - Light alarms
  - Operation mode (day/night)
- Largest Controller can control and monitor maximums of:
  - Twelve (12) Medium Intensity ICAO Type B/Type C and
  - Twenty Four (24) Low Intensity ICAO Type B/Type E

Dual (Red/White) LED Systems: Medium Intensity ICAO Type A/Type B

Features & Benefits

- Infrared (IR) version available for improved visibility to Night Vision Goggles
- Optional Ethernet/Cellular based remote monitoring/control system available
- Ability to flash side markers
- Integrated controller with LCD back-lit display
- 5 year warranty
- Universal 120-240 VAC input or +/- 48 VDC input
- Controller can be mounted at the base of the structure
- Wide temperature range: -40°C to +55°C
- Light weight design
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provisions for padlock on the enclosure
- Dry contacts for alarm monitoring/status
  - Photocell alarm
  - White mode alarm
  - Power fail
  - Light alarms
  - Red mode alarm
  - Communication
  - Operation mode (day/night)
  - Sync alarm

White LED Systems: Medium Intensity ICAO Type A

Features & Benefits

- Integrated controller with LCD back-lit display
- Optional Ethernet/Cellular based remote monitoring/control system available
- 5 year warranty
- Universal 120-240 VAC input or 48 VDC input
- Controller can be mounted at the base of the structure
- Wide temperature range: -40°C to +55°C
- Light weight design
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provisions for padlock on the enclosure
- Dry contacts for alarm monitoring/status
  - Photocell alarm
  - White mode alarm
  - Power fail
  - Light alarms
  - Communication
  - Operation mode (day/night)
  - Sync alarm

High Intensity LED Systems: ICAO Type A

Features & Benefits

- Integrated controller
- 5 year warranty
- Universal 208-277 VAC input
- Controller can be mounted at the base of the structure
- Wide temperature range: -40°C to +55°C
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provision for padlock on the enclosure
- Dry contacts for alarm monitoring/status
  - Photocell alarm
  - White mode alarm
  - Power fail
  - Red mode alarm
  - Communication
  - Operation mode (day/night)
  - Sync alarm

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Obstruction LED Lighting

ICAO & FAA

Vigilant LED Based ICAO Type A

High Intensity (White / Red) Strobe

Effective Intensity:	White Day – 200,000 cd White Twilight- 20,000 cd White or Red Night- 2,000 cd
Wattage:	White day - 160W White twilight - 30W White Night - 23W Red Night - 30W
Input Voltage:	208-277 VAC

Vigilant LED Based ICAO Type A/Type B

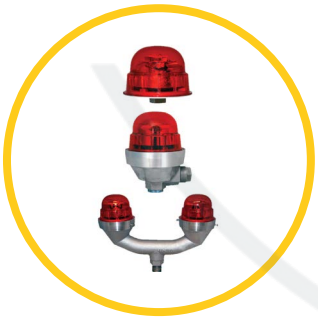
Medium Intensity (White/Red) Strobe - Infrared (IR) available

Effective Intensity:	White Day- 20,000 cd White Night- 2,000 cd Red Night- 2,000 cd
Wattage:	White Day- 36W (system = 75W) White Night- 4W (system = 10W) Red Night- 12W (system = 25W)
Input Voltage:	120-240 VAC or +/- 48 VDC

Vigilant LED Based ICAO Type B/Type C

Medium Intensity (Red) Beacon - Infrared (IR) available

Effective Intensity:	2,000 cd
Wattage:	3.3W (16.7% duty circle) - standard 7.0W (16.7% duty circle) - IR model
Input Voltage:	120-240 VAC or 24-48 VDC



Vigilant LED Based ICAO Type B

Low Intensity (Red) RTO Side Light - Infrared (IR) available

Effective Intensity:	32.5 cd
Wattage Range:	1.5-9.0W
Input Voltage:	12-48 VDC, 120-240 VAC, 277 VAC

Vigilant LED Based ICAO Type B

Low Intensity (Red) Side Light

Effective Intensity:	32.5 cd
Wattage Range:	13-24W
Input Voltage:	12-48 VDC, 120 VAC, 230 VAC

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