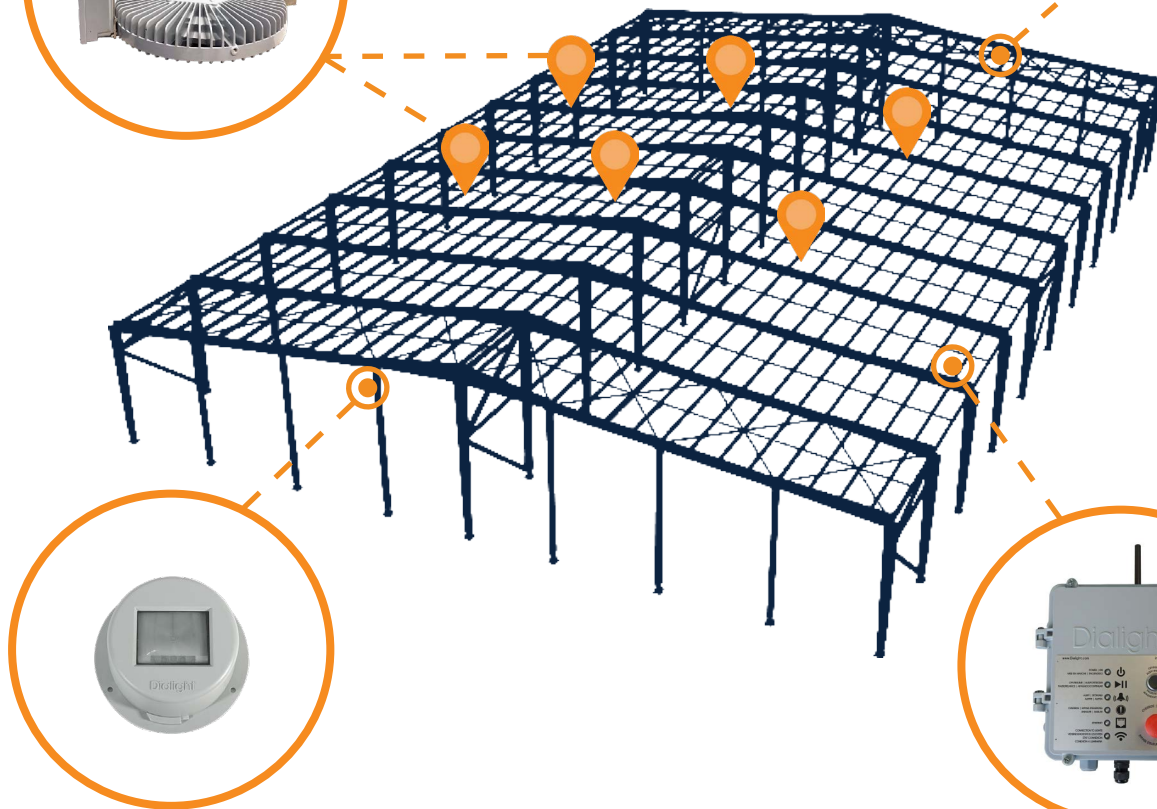


CONNECTED HIGH BAY



WIRELESS SENSORS

GATEWAY CONTROLLER

Dialight® IntelliLED™ Wireless Controls

Technical System Specification Sheet - UL

Vigilant® & SafeSite® High Bay



100-277V Wiring Box

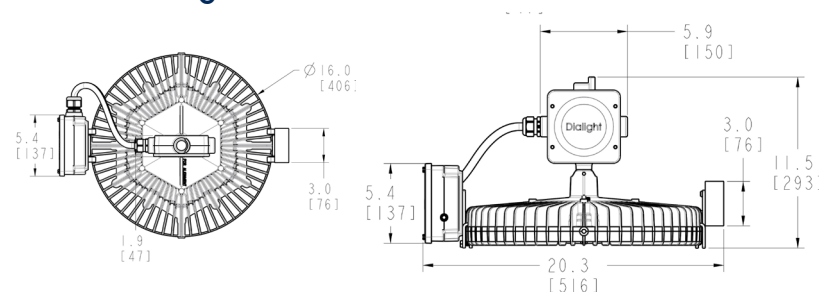


347-480V Wiring Box

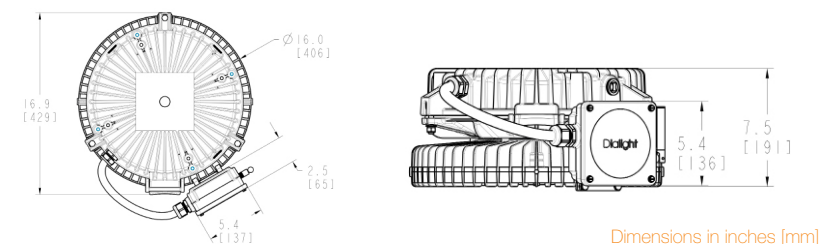
Certifications & Ratings

- 10 year warranty
- UL 1598/A (wet locations)
- CSA C22.2 No. 250.0-08
- IP66/67
- NEMA 4X
- Class I, Div. 2 Groups A, B, C, D (SafeSite® models only)

100-277V Wiring Box



347-480V Wiring Box



Dimensions in inches [mm]

Our state-of-the-art, highly efficient Vigilant® High Bay fixture can communicate wirelessly with all components in the IntelliLED™ system.

Technical Specifications:

Fixture weight:

100-277 VAC:	28 lbs (12.7 kg)
347-480 VAC:	42 lbs (19.1 kg)

Shipping weight:

100-277 VAC:	35 lbs (15.9 kg)
347-480 VAC:	47 lbs (21.3 kg)

Operating voltage:

100-277 VAC, 120-250 VDC
347-480 VAC

Operating temperature:

-40°F to +149°F (-40°C to +65°C)

Harmonics:

IEC 61000-3-2

Noise requirement /EMC:

FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz

Transient protection:

Protection devices capable of handling up to 10kv. Tested for 10kv/2 ohm combination wave, as per IEEE C62.41, line-line and line ground

THD:

<20%

Power factor:

> 0.9

Fusing:

Internal

Housing:

Copper free aluminum

Finish:

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

Lens:

See table

CRI:

80

CCT:

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

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

Temperature Ratings

Ambient Temp Range T4 Temp Code:	Ambient Temp Range T5 Temp Code:
-40°F to +149°F (-40°C to +65°C)	-40°F to +131°F (-40°C to +50°C)

Please reference spec sheet at www.dialight.com for all High Bay technical information.

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.

Vigilant® & SafeSite® High Bay

Ordering Information								
Part Number	Lumens	Watts	lm/W	Certification	CCT	CRI	Lens	Beam Distribution
High Bay - 100-277 VAC Models - Integrated Pendant Wiring Box								
HCU-7MC2-EJNN-NGN	26,250	186	141	UL1598/A	5000K	80	Glass	Medium
HCU-LMC2-EJNN-NGN	24,500	186	132	UL1598/A	5000K	80	Polycarbonate Dome	Medium
HCU-5MC2-EJNN-NGN	24,750	186	133	UL1598/A	5000K	80	Polycarbonate Diffused	Medium
HCU-7MC2-CJNN-NGN	19,500	129	151	UL1598/A	5000K	80	Glass	Medium
HCU-LMC2-CJNN-NGN	18,000	129	140	UL1598/A	5000K	80	Polycarbonate Dome	Medium
HCU-5MC2-CJNN-NGN	18,250	129	141	UL1598/A	5000K	80	Polycarbonate Diffused	Medium
HCU-7MC2-BJNN-NGN	14,250	102	140	UL1598/A	5000K	80	Glass	Medium
HCU-LMC2-BJNN-NGN	13,250	102	130	UL1598/A	5000K	80	Polycarbonate Dome	Medium
HCU-5MC2-BJNN-NGN	13,500	102	132	UL1598/A	5000K	80	Polycarbonate Diffused	Medium
Low Bay - 100-277 VAC Models - Integrated Pendant Wiring Box								
LCU-LUC2-CJNN-NGN	18,000	154	117	UL1598/A	5000K	80	Polycarbonate Dome	Ultra Wide
LCU-5UC2-CJNN-NGN	17,000	154	110	UL1598/A	5000K	80	Polycarbonate Diffused	Ultra Wide
LCU-LUC2-BJNN-NGN	14,000	114	123	UL1598/A	5000K	80	Polycarbonate Dome	Ultra Wide
LCU-5UC2-BJNN-NGN	13,250	114	116	UL1598/A	5000K	80	Polycarbonate Diffused	Ultra Wide
LCU-LUC2-9JNN-NGN	9,000	80	113	UL1598/A	5000K	80	Polycarbonate Dome	Ultra Wide
LCU-5UC2-9JNN-NGN	8,500	80	106	UL1598/A	5000K	80	Polycarbonate Diffused	Ultra Wide
LCU-LUC2-6JNN-NGN	6,000	56	107	UL1598/A	5000K	80	Polycarbonate Dome	Ultra Wide
LCU-5UC2-6JNN-NGN	5,600	56	100	UL1598/A	5000K	80	Polycarbonate Diffused	Ultra Wide

Notes

For SafeSite® Class I, Div 2 options, change the 3rd character from "U" to "D"

For High Bay aisle optic options, change the 5th character from "M" to "E"

For neutral white options, change the 6th character from "C" to "N"

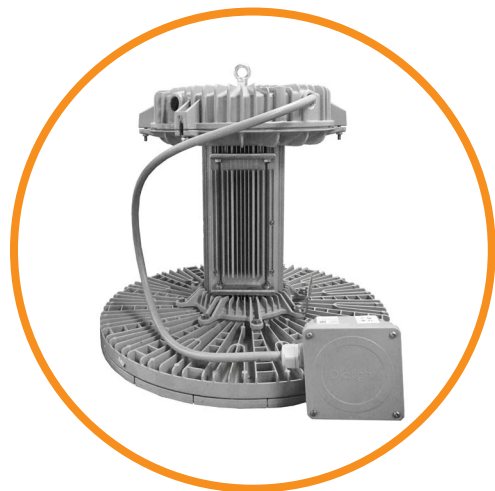
For 347-480V voltage options, change the 2nd character from "C" to "E" and the 7th character from "2" to "A"

Please consult factory for other lenses, beam distribution angles, mounting options, cable and plug accessories

Please reference spec sheet at www.dialight.com for all High Bay technical information.

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Vigilant® High Bay - High Output



Certifications & Ratings

- 10 year warranty
- UL 1598/A (wet locations)
- CSA C22.2 No. 250.0-08
- IP66/67
- NEMA 4X

Our Vigilant® High Bay 42,000-72,000lm fixture can communicate wirelessly with all components in the IntelliLED™ system.

Mechanical Information:

Fixture weight:

120-277 VAC models: 71 lbs (32.2 kg)
347/480 VAC models: 87 lbs (39.5 kg)

Shipping weight:

120-277 VAC models: 85 lbs (38.6 kg)
347/480 VAC models: 101 lbs (45.8 kg)

Note that the wire box is installed separately from the housing. This allows single installer for fixtures.

120-277 VAC wire box: 15 lbs (6.6 kg) [mount first]
347/480 VAC wire box: 14 lbs (6.3 kg) [mount first]
Light fixture (base): 56 lbs (25.6 kg) [mount last]

Mounting:

(1) 3/4" NPT - top
(4) 3/4" NPT - sides

Variable Dimming:

Variable dimming cable: Two conductor cable

Power cable: Three conductor cable

Variable dimming control: 0-10 VDC

Dimming range: 10 VDC = 100% light output
0 VDC = 5% light output

Electrical Specifications:

Operating voltage: 120-277 VAC, 50/60Hz
347/480 VAC, 50/60Hz

Total system power consumption: See table

Operating temp: -40°F to +149°F (-40°C to +65°C)

Harmonics: IEC 61000-3-2

Noise requirement / EMC: FCC Title 47, Subpart B, Section 15, class A device, RF Immunity; 10V/m, 80MHz-1GHz

Transient protection: 6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground

THD: <20%

Power factor: >0.9

Construction:

Housing: Copper free aluminum

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

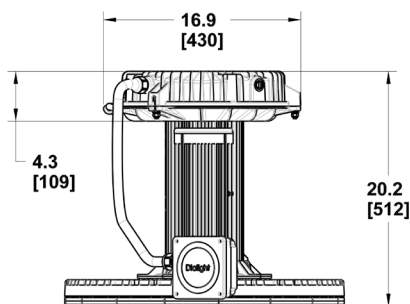
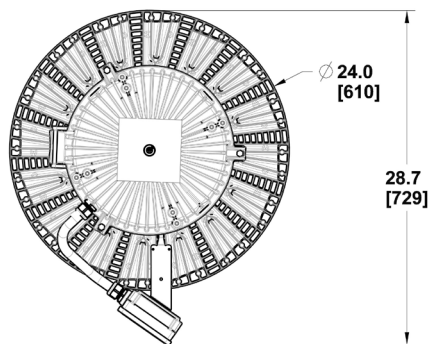
Lens: Tempered glass, acrylic, polycarbonate

Photometric Information:

CRI: 80

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

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



Dimensions in inches [mm]

Please reference spec sheet at www.dialight.com for all High Bay technical information.

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Vigilant® High Bay - High Output

Ordering Information								
Part Number	Lumens	Watts	lm/W	Warranty	Voltage	CCT	Lens	Beam Distribution
High Bay - High Output - 120-277 VAC Models								
H6U-7NC2-RJNN-NGN	71,000	515	138	10yr	120-277 VAC	5000K (cool white)	Glass	Narrow
H6U-7NC2-NJNN-NGN	60,000	480	125	10yr	120-277 VAC	5000K (cool white)	Glass	Narrow
H6U-7NC2-KJNN-NGN	45,000	360	125	10yr	120-277 VAC	5000K (cool white)	Glass	Narrow
High Bay - High Output - 347/480 VAC Models								
H6U-7NCD-RJNN-NGN	71,000	529	134	10yr	480 VAC	5000K (cool white)	Glass	Narrow
H6U-7NCD-NJNN-NGN	60,000	520	115	10yr	480 VAC	5000K (cool white)	Glass	Narrow
H6U-7NCB-NJNN-NGN	60,000	520	115	10yr	347 VAC	5000K (cool white)	Glass	Narrow
H6U-7NCD-KJNN-NGN	45,000	380	118	10yr	480 VAC	5000K (cool white)	Glass	Narrow
Notes								
Please consult factory for remote power supply options								

Please reference spec sheet at www.dialight.com for all High Bay technical information.

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Gateway Controller



The gateway wirelessly integrates fixtures and sensors, offering ground-level control for up to 120 nodes (fixtures and sensors).

Certifications & Ratings

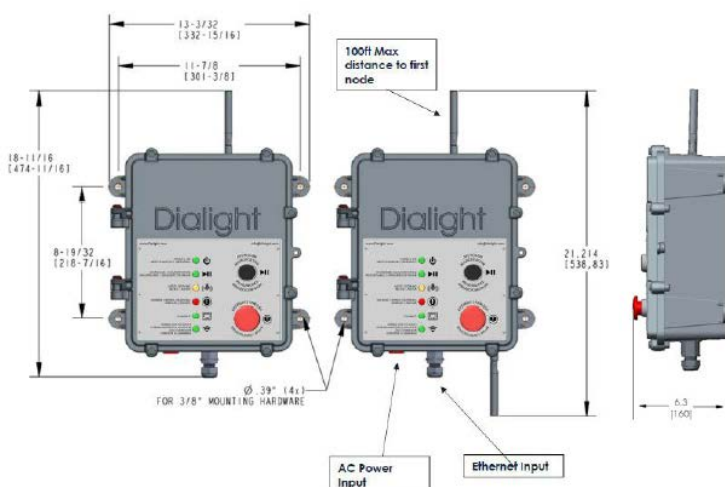
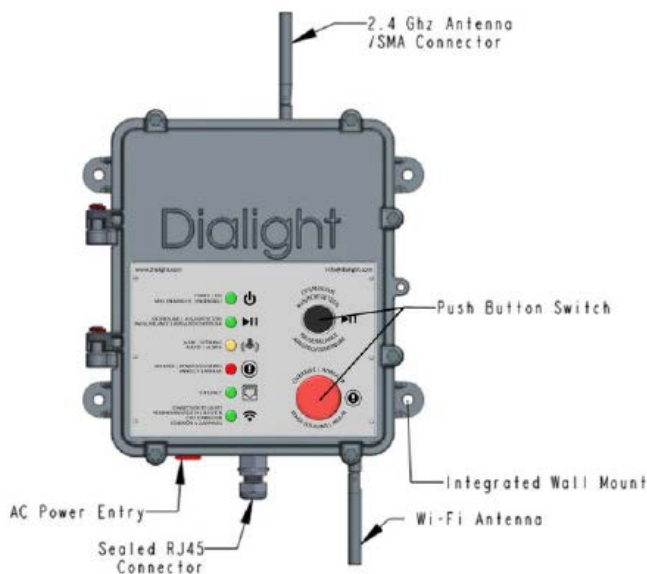
- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- FCC
- Canada IC
- NEMA 4X
- IP66
- EN 55032
- EN 55016-2-1
- EN 55016-2-3
- EN 61000-3-2
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-11

Technical Specifications:

Weight:	15.8 lbs (7.2 kg)
Shipping weight:	19.2 lbs (8.7 kg)
Operating voltage:	100-277 VAC, 50/60Hz
Operating temperature:	-40°F to +149°F (-40°C to +65°C)
Ethernet:	10/100/Gb Ethernet Wired and WIFI for connectivity/control
Wireless protocol:	2.4 GHz wireless mesh network
Maximum nodes*:	120
Dimensions (WxDxH):	13.09" x 6.3" x 21.214" 323.5mm x 160mm x 538.84mm
Quick disconnect:	This device must be connected to a quick disconnect device, such as a circuit breaker

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

*Nodes = fixtures and sensors



Dimensions in inches [mm]

Ordering Information

Part Number	Description
GAUW24AG	Gateway (GW), wireless controller

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Enterprise Server



The Enterprise Server offers the flexibility for complete site-wide lighting management through an easy to use web interface.

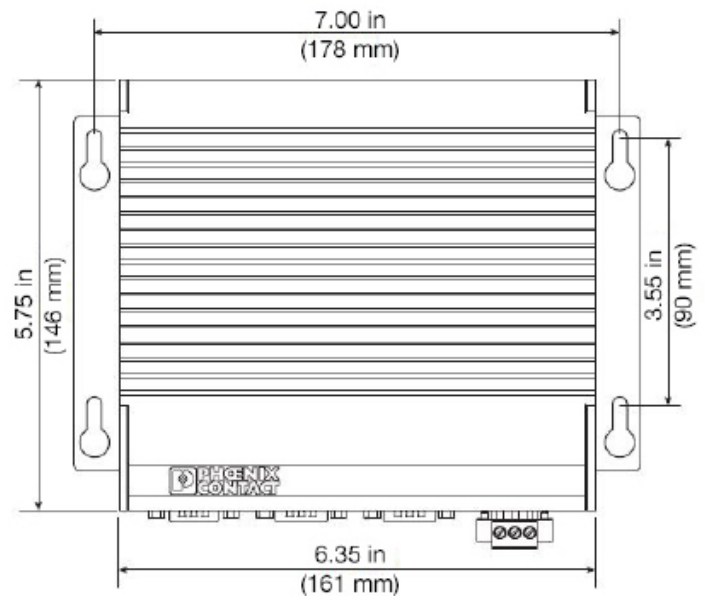
Certifications & Ratings

- 2 year warranty
- UL 508
- Dry location only
- EN 60068-2-6
- IEC 60068-2-27
- IEC 61000-6-2
- IEC 61000-4-2
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 61000-4-8
- IEC 55022

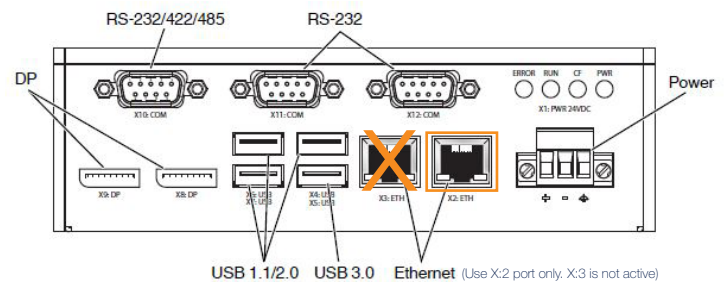
Technical Specifications:

Weight:	3.5 lbs (1.6 kg)
Shipping weight:	4.9 lbs (2.2 kg)
Operating voltage:	19.2-28.8 VDC, 65W
Operating temperature:	+32°F to +122°F (0°C to +50°C)
Ethernet:	10/100/Gb Ethernet
Wireless protocol:	2.4 GHz wireless mesh network
Memory (RAM/SSD):	8 GB DDR3 / 250 GB mSATA
Dimensions (WxDxH):	6.4" x 5.75" x 1.93" 162mm x 146.2mm x 49mm

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



Dimensions in inches [mm]



Ordering Information

Part Number	Description
DACN825AP	Enterprise Server (ES), with wired communication to Gateway

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Occupancy Sensor



Long Range

Wide Angle

Certifications & Ratings

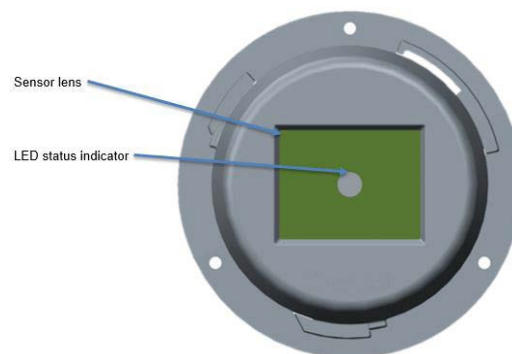
- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- IP66

Technical Specifications:

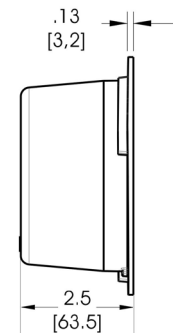
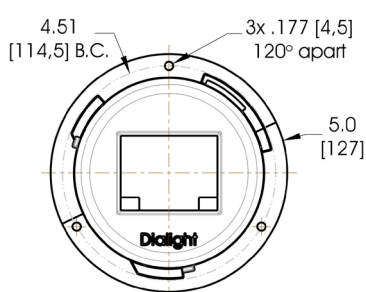
Weight:	8.8 oz (250 g)
Shipping weight:	1.5 lbs (0.7 kg)
Operating temperature:	-40°F to +140°F (-40°C to +60°C)
Power input:	2x "AA" lithium batteries 1.5V
Mounting:	Ceiling or walls at least 3' to 5' (900mm to 1500mm) height off the ground
Estimated battery life:	2-5 years (based on usage)
Radio frequency:	2.4Ghz
Dimensions (HxD):	5" x 2.5" 125mm x 63.5mm
Sensing area:	Wide angle - 20'-30', 1,250 sq ft, 120° Long range - 100' max, 7,600 sq ft, 10°
Sensing technology:	Passive infrared
Housing:	Grey polycarbonate
Lens:	Diffused high density polyethylene

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

Reduce run time and maximize cost savings with standalone battery powered occupancy sensors in standard or wide angle options.



Green LED	Green LED1 flashes one time when motion is detected. Indicates battery voltage above 2.7 Volts. Green LED flashes twice every 5 seconds while searching for a network connection.
Red LED	A single red LED3 flash indicates motion detected and low battery voltage below 2.7 Volts.
Reset Button	Resets the processor.
LED On/Off Switch	Located on bottom of sensor board, it will turn the LED indicators ON or OFF.
Leave Button	Push and hold for 5 seconds to force sensor to leave its gateway.
Join Button	Push and hold for 5 seconds. Sensor will double blink while trying to join a gateway. Sensor will stop blinking if it doesn't join a gateway within 30 minutes.



Dimensions in inches [mm]

Ordering Information

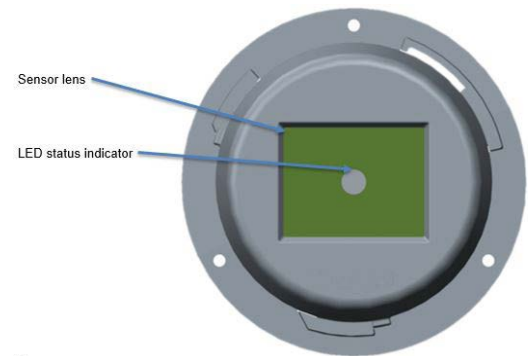
Part Number	Description
WOSU22BG2	Occupancy Sensor, battery powered sensor - wide angle
WOSU12BG2	Occupancy Sensor, battery powered sensor - long range

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Daylight Harvesting Sensor



Reduce run time and maximize cost savings with standalone AC wired daylight harvesting sensors to control light levels.



Certifications & Ratings

- 5 year warranty
- UL 916
- CSA C22.2 No. 205
- EN 55022: 2008
- EN 61000-4-5: 2014
- EN 61000-4-6: 2014
- EN 61000-4-11: 2004

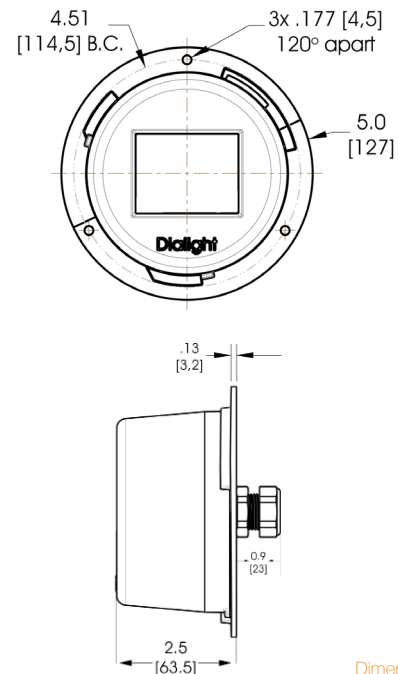
Green LED

Ready to join network: Light blinks twice quickly
Identify: Light will blink steadily on/off

Technical Specifications:

Weight:	10 oz (238 g)
Shipping weight:	1.5 lbs (0.7 kg)
Operating voltage:	100-277 VAC, 50/60Hz, 100mA max.
Operating temperature:	-13°F to +149°F (-25°C to +65°C)
Mounting:	Ceiling or walls at least 5' (1500mm) height from the ground away from direct sunlight or obstructions
Radio frequency:	2.4Ghz
Object detection:	Light
Dimensions (HxD):	5" x 2.5" 125mm x 63.5mm
Housing:	Grey polycarbonate
Lens:	Polycarbonate

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



Dimensions in inches [mm]

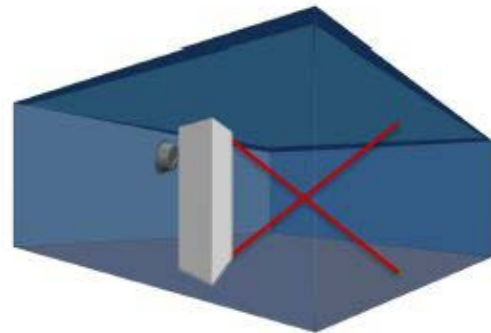
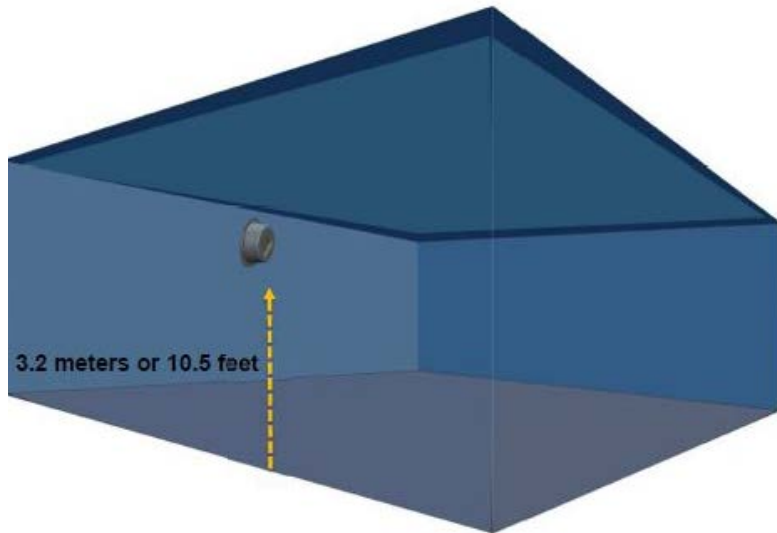
Ordering Information

Part Number	Description
DLHU124UG2	Daylight Harvesting Sensor, standalone, AC wired sensor

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Sensor Mounting

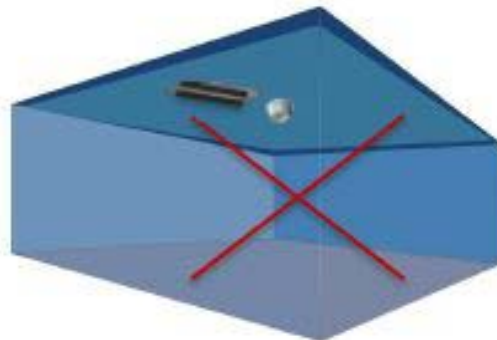
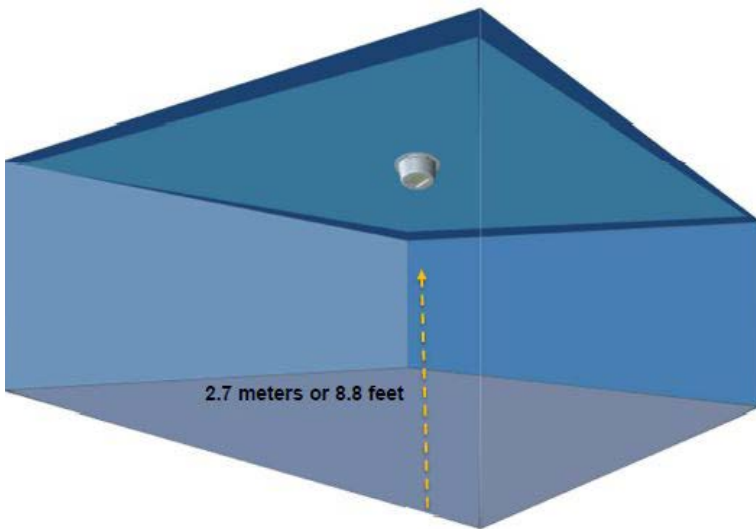
Long Range Sensor Wall Mount



The long range sensor is best used as a wall mounted sensor. The recommended install for this sensor is 3.2 meters or 10.5 feet from the floor.

Avoid placing sensors where obstacles can block the sensor's line of sight.

Wide Angle Sensor Ceiling Mount



The wide optic sensor is best used as a ceiling mounted sensor. The recommended install for this sensor is 2.7 meters or 8.8 feet from the floor.

Sensor should be mounted 6 feet away from any open air vent or strong air supply openings.

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info@dialight.com

WARNING / DISCLAIMERS:

Installation & secondary retention. The use of this product 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) as applicable. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. 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 as appropriate) and in compliance with all applicable laws and regulations.

Product specifications & warranties. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. All values and performance data herein are design or typical values when measured under laboratory conditions. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and terms and conditions of use/purchase. Unless agreed otherwise in writing by an authorized representative of Dialight, Dialight does not represent that its products are fit for any particular purpose and accepts no liability for the installation and/or unauthorised use of its products. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranties. 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 and information provided at www.dialight.com, the latter shall prevail.

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