Wall Mount

LED wall sconce

121



Gardco LED wall sconce 121 offers distinction through its styling, powerful optical design, array of distributions, and impressive selection of control possibilities. Designed to add an element of style to your application by pairing straight lines with rounded edges, the form of the 121 is timeless, yet contemporary, and will complement a wide assortment of architectural styles and designs, while delivering high light levels and functional distributions. 121 sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 12,400 lumens. Energy saving control options help to increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path-of-egress and is integral to the luminaire.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

Example: 121-32L-700-NW-G4-3-120-BL-IMRI2-BZ

Prefix	Number of LEDs	Drive Current	LED Color-Generation	Distribution	Emergency	Voltage
121 LED wall sconce	**16L** 16 LEDs (1 module)	**200** 200mA **400** 400mA **530** 530mA **700** 700mA **1000** 1000mA **1200** 1200mA	**CW-G4** Cool White 5000K, 70CRI Generation 4 **NW-G4** Neutral White 4000K, 70CRI Generation 4 **WW-G4** Warm White 3000K, 70CRI Generation 4 **WY-G4** Warm Yellow 2700K, 80 CRI Generation 4 [2] **BW-G4** Balanced White 3500K 80CRI Generation 4 [2] **AM-G4** Direct Amber (590nm) Generation 4 [2]	**2** Type 2 **3** Type 3 **4** Type 4	**EBPC** Emergency Battery Pack Cold Weather [1,3,12] Leave blank to omit an emergency option	**UNV** 120-277V **HVU** 347-480V **120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V
	32L 32 LEDs (2 modules)	**530** 530mA **700** 700mA **1000** 1000mA				

Options

Dimming controls	Motion sensing lens	Photo sensing	Electrical	Finish
DD 0-10V External dimming (controls by others) [4] **DCC** Dual Circuit Control [4,5,6,9] **FAWS** Field Adjustable Wattage [4,5] **DynaDimmer: Automatic Profile Dimming** [4,7] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours		**PCB** Photocontrol Button [7,8]	**Fusing** **F1** Single (120, 277, 347VAC) [8] **F2** Double (208, 240, 480VAC) [8] **F3** Canadian Double Pull (208, 240, 480VAC) [8] **Surge Protection (10kA standard)** **SP2** Increased 20kA	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) **CC** Custom color (Must supply color chip for required factory quote)
BL Bi-level functionary with motion sensor [4,7,11]	**IMRI2** Integral with #2 lens [10] **IMRI3** Integral with #3 lens [10]			
WIAP Wireless Interact (includes SR driver and SR receptacle) [4,7,10,11]	**LB** (7'-15' mounting height) sensor, Black color housing Wirless Interact, integral **LW** (7'-15' mounting height) sensor, White color housing			

1. Only 16L up to 700mA can be used with battery backup (EBPC) configuration.
2. Extended lead times apply. Contact factory for details.
3. Available in 120V or 277V only.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Must specify input voltage.
9. Available with two modules (32L) at 530mA.
10. Not available with DD, DCC, and FAWS dimming control options.
11. Must specify a motion sensor lens.
12. Not available with DCC, FAWS.

121 LED wall sconce

121 Accessories[1] (ordered separately)

Mounting Accessories

Wall Mount	
WS	Wall mounted box for surface conduit

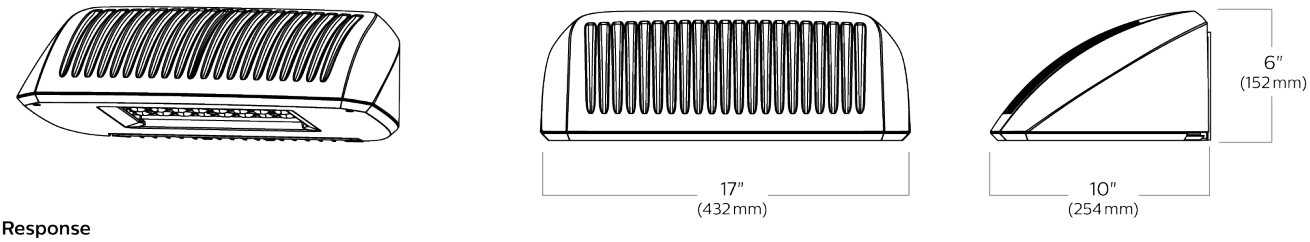
Controls Accessories

IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).

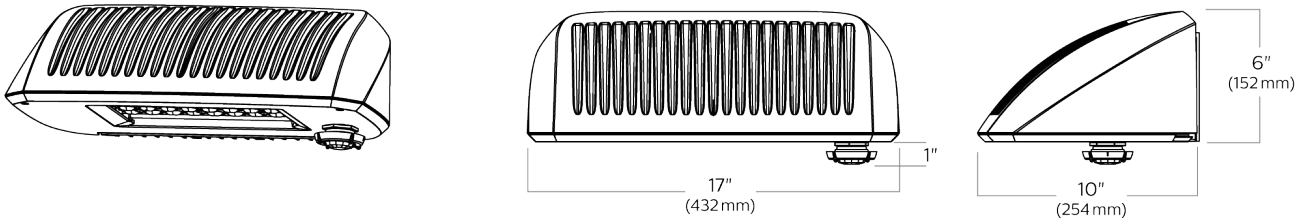
Footnotes
1. Consult Signify to confirm whether specific accessories are BAA-compliant.

Dimensions

Standard Luminaire



Motion Response

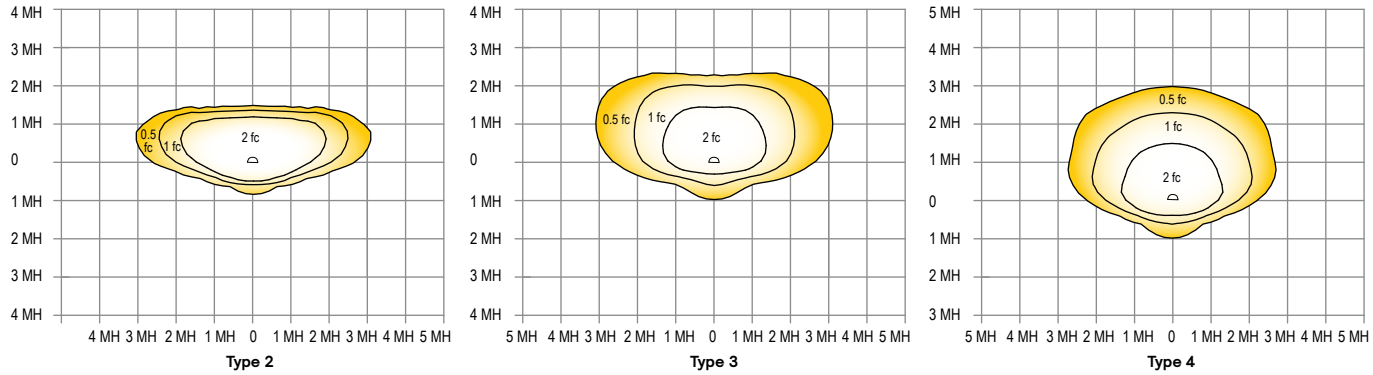


Luminaire Weights

LED wall sconce 121	Weight
Luminaire	15.0 lbs
Luminaire - EBPC (EM battery pack)	18.5 lbs

Optical Distributions

Based on configuration 121-32L-530-NW-G4 (52W) mounted at 15ft.



121 LED wall sconce

3000K LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts (W)	Type 2			Type 3			Type 4		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
121-16L-200-WW-G4-x	16	200	3000	12	1350	109	B0-U0-G1	1248	101	B0-U0-G1	1252	101	B0-U0-G1
121-16L-400-WW-G4-x	16	400	3000	22	2576	116	B1-U0-G0	2382	107	B1-U0-G0	2389	108	B1-U0-G0
121-16L-530-WW-G4-x	16	530	3000	28	3119	111	B1-U0-G0	2885	103	B1-U0-G1	2893	103	B1-U0-G1
121-16L-700-WW-G4-x	16	700	3000	38	4091	107	B1-U0-G1	3785	99	B1-U0-G1	3795	99	B1-U0-G1
121-16L-1000-WW-G4-x	16	1000	3000	55	5313	97	B2-U0-G1	4915	90	B1-U0-G1	4928	90	B1-U0-G2
121-16L-1200-WW-G4-x	16	1200	3000	66	5935	90	B2-U0-G1	5490	84	B1-U0-G2	5505	84	B1-U0-G2
121-32L-530-WW-G4-x	32	530	3000	52	6551	126	B2-U0-G1	6061	117	B1-U0-G2	6076	117	B1-U0-G2
121-32L-700-WW-G4-x	32	700	3000	70	8336	119	B2-U0-G1	7711	110	B1-U0-G2	7732	110	B1-U0-G2
121-32L-1000-WW-G4-x	32	1000	3000	107	11179	105	B3-U0-G2	10341	97	B2-U0-G2	10369	97	B2-U0-G2

4000K LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts (W)	Type 2			Type 3			Type 4		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
121-16L-200-NW-G4-x	16	200	4000	12	1500	121	B0-U0-G1	1387	112	B0-U0-G1	1391	112	B0-U0-G1
121-16L-400-NW-G4-x	16	400	4000	22	2862	129	B1-U0-G0	2647	119	B1-U0-G0	2654	120	B1-U0-G0
121-16L-530-NW-G4-x	16	530	4000	28	3465	123	B1-U0-G0	3205	114	B1-U0-G1	3214	114	B1-U0-G1
121-16L-700-NW-G4-x	16	700	4000	38	4546	118	B1-U0-G1	4206	110	B1-U0-G1	4217	110	B1-U0-G1
121-16L-1000-NW-G4-x	16	1000	4000	55	5903	108	B2-U0-G1	5461	100	B1-U0-G2	5476	100	B1-U0-G2
121-16L-1200-NW-G4-x	16	1200	4000	66	6594	101	B2-U0-G1	6100	93	B1-U0-G2	6117	93	B1-U0-G2
121-32L-530-NW-G4-x	32	530	4000	52	7279	140	B2-U0-G1	6734	130	B1-U0-G2	6751	130	B1-U0-G2
121-32L-700-NW-G4-x	32	700	4000	70	9262	132	B2-U0-G1	8568	122	B1-U0-G2	8591	122	B2-U0-G2
121-32L-1000-NW-G4-x	32	1000	4000	107	12421	116	B3-U0-G2	11490	108	B2-U0-G2	11521	108	B2-U0-G2

5000K LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts (W)	Type 2			Type 3			Type 4		
					Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
121-16L-200-CW-G4-x	16	200	5000	12	1500	121	B0-U0-G1	1387	112	B0-U0-G1	1391	112	B0-U0-G1
121-16L-400-CW-G4-x	16	400	5000	22	2862	129	B1-U0-G0	2647	119	B1-U0-G0	2654	120	B1-U0-G0
121-16L-530-CW-G4-x	16	530	5000	28	3465	123	B1-U0-G0	3205	114	B1-U0-G1	3214	114	B1-U0-G1
121-16L-700-CW-G4-x	16	700	5000	38	4546	118	B1-U0-G1	4206	110	B1-U0-G1	4217	110	B1-U0-G1
121-16L-1000-CW-G4-x	16	1000	5000	55	5903	108	B2-U0-G1	5461	100	B1-U0-G2	5476	100	B1-U0-G2
121-16L-1200-CW-G4-x	16	1200	5000	66	6594	101	B2-U0-G1	6100	93	B1-U0-G2	6117	93	B1-U0-G2
121-32L-530-CW-G4-x	32	530	5000	52	7279	140	B2-U0-G1	6734	130	B1-U0-G2	6751	130	B1-U0-G2
121-32L-700-CW-G4-x	32	700	5000	70	9262	132	B2-U0-G1	8568	122	B1-U0-G2	8591	122	B2-U0-G2
121-32L-1000-CW-G4-x	32	1000	5000	107	12421	116	B3-U0-G2	11490	108	B2-U0-G2	11521	108	B2-U0-G2

LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Avg. System Watts		Lumen Outputs by Optic Type					
						Type 2		Type 3		Type 4	
				Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
121-16L-200-NW-G4-x-EBPC	16	200	5000	12	14	1500	1654	1387	1510	1391	1543
121-16L-400-NW-G4-x-EBPC	16	400	5000	22	14	2862	1654	2647	1510	2654	1543
121-16L-530-NW-G4-x-EBPC	16	530	5000	28	14	3465	1654	3205	1510	3214	1543
121-16L-700-NW-G4-x-EBPC	16	700	5000	38	14	4546	1654	4206	1510	4217	1543

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

For emergency EBPC option, published values are based on initial lumens.

Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
40°C	**up to 1200 mA**	**>100,000 hours**	**>42,000 hours**	**>99%**

121 LED wall sconce

Specifications

Housing

Main body cast housing and back plate made of a low copper die cast Aluminum alloy for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Hinged door allows access to driver and LED compartment.

Light Engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 1 and 2 modules or 16 and 32 LEDs. Module is RoHS compliant. Standard color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. Also available in 2700K, 3500K, and Amber (590nm) with extended lead times. Contact factory for details.

LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy Saving Benefits

System efficacy up to 140 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Luminaire ships fully assembled, ready to install.

Optical System

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Control Options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of 2 modules each at 530mA (32L models), controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Automatic Profile Dimming (CS/CM): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

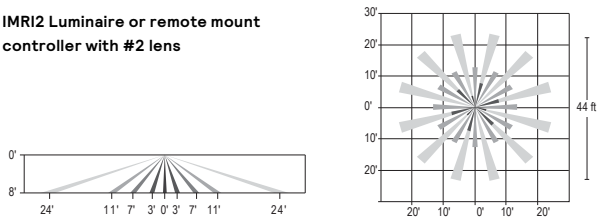
Emergency Battery Backup Cold Pack (EBPC): Emergency battery pack is cold weather rated down to -20oC (-4oF) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 16L configuration up to 700mA, operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost. Available in 120 or 277V only.

Motion Response Options

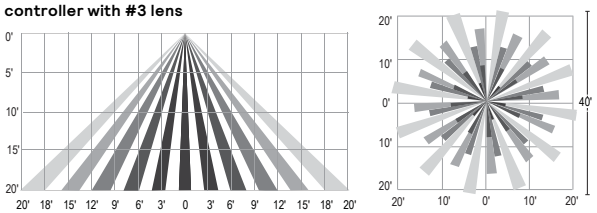
Bi-Level Infrared Motion Response (BL-IMRI3): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

Infrared Motion Response with Other Controls (IMRI3): When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be reprogrammed via the controller. Infrared Motion Response Lenses (IMRI2/IMRI3): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMRI2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire or remote mount controller with #2 lens



IMRI3 Luminaire or remote mount controller with #3 lens



121 LED wall sconce

Specifications

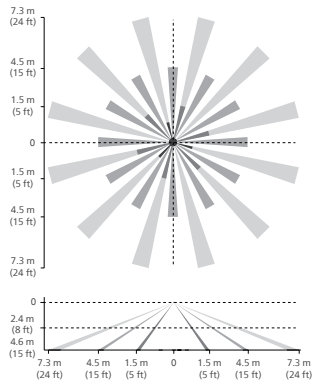
Control options

Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming - activated via the Interact App. Sensors IP66 rated.

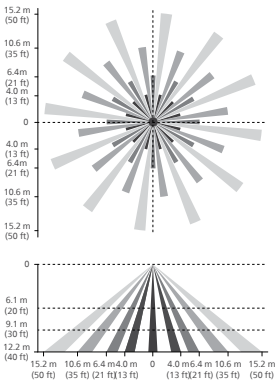
For more information on Interact Pro visit:

www.interact-lighting.com/interactproscalablesystem

LB or LW low sensor



HB or HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

Electrical

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint 2.5 mils minimum. The thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. RAL and custom color matching available.

Listings

cULus Listed for Canada and USA suitable for wet locations when mounted downward facing. cULus Listed for Canada and USA suitable for damp locations when inverted upward facing when mounted in covered ceiling application. Emergency Battery Pack option is tested and listed to UL924 and CSA C22.2 No. 141-10 DesignLights Consortium qualified on models as listed on DLC QPL. CCTs 3000K and warmer are Dark Sky Approved. Luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F)[4].

Warranty

121 LED sconce luminaires feature a 5-year limited warranty.
See signify.com/warranties for complete details and exclusions

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

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