GARDCO by signify

Wall Mount

LED Wall Sconce

101L

Gardco 101 LED wall sconces feature a low-profile design that provides wide flexibility in high performance exterior wall illumination. Full cutoff performance, usable illumination patterns, and powerful wattages combine into a compact and architecturally pleasing design. 101L sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 12,000 lumens. Energy saving control options increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path of egress.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: 101L-32L-700-NW-G2-3-120-BL-IMRI2-BZ

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage
101L						
101L 101L LED Wall Sconce	**16L** 16 LEDs (1 module)	**200** 200mA **400** 400mA **530** 530mA **700** 700mA **1000** 1000mA **1200** 1200mA	**CW-G2** Cool White 5000K, 70 CRI Generation 2 **NW-G2** Neutral White 4000K, 70 CRI Generation 2 **WW-G2** Warm White 3000K, 70 CRI Generation 2 **WY-G2** Warm Yellow 2700K, 80 CRI Generation 2[2] **BW-G2** Balanced White 3500K 80CRI Generation 2[2] **AM-G2** Direct Amber (590nm) Generation 2[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 module)	**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] **BL** Bi-level functionality with motion sensor[4,7,11] **DynaDimmer: Automatic Profile Dimming**[4,7,13] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours	**IMRI2** Integral with #2 lens[10] **IMRI3** Integral with #3 lens[10]	**PCB** Photocontrol Button[7,8] **TLRD5** Twist Lock Receptacle 5-Pin[14] **TLRD7** Twist Lock Receptacle 7-Pin[14] **TLRPC** Twist Lock Receptacle w/ Photocell[8,15]	**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)

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 120 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. Limited to 30°C ambient if combined with 32L-1000mA (107W).
12. Not available with DCC and FAWS.
13. Not available with DCC.
14. Dimming will not be connected to NEMA receptacle if ordering with other control options.
15. Not available in 480V. Order photocell separately with TLRD5/7.

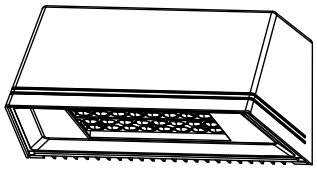
101L LED wall sconce

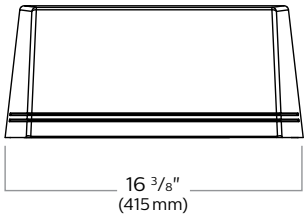
Luminaire Accessories[1] (order separately)

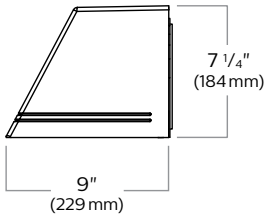
Mounting accessories	
Wall Mount	
WS	Wall Mounted Box for Surface Conduit

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

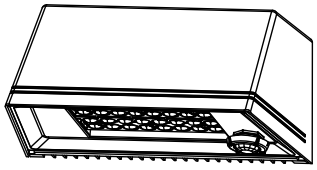
Dimensions

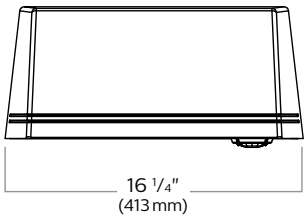


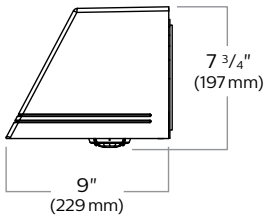




Motion Response



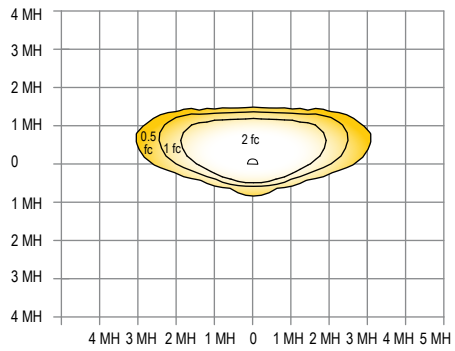




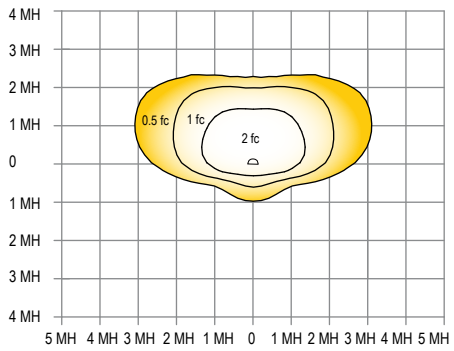
Luminaire Weights	
LED Wall Sconce 101L	**Weight**
Luminaire	13.5 lbs
Luminaire - EBPC (EM battery pack)	17.0 lbs

Optical Distributions

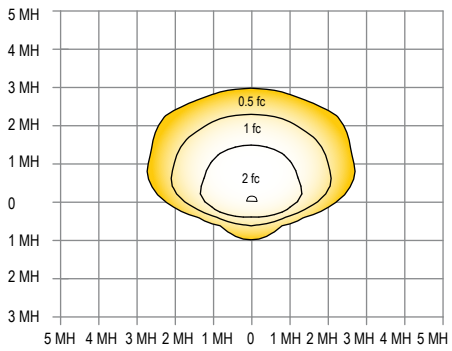
Based on configuration 101L-32L-530-NW-G2 (52W) mounted at 15ft.



Type 2



Type 3



Type 4

101L 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
101L-16L-200-WW-G2-x	16	200	3000	12	1488	124	B1-U0-G0	1358	113	B0-U0-G0	1388	116	B0-U0-G0
101L-16L-400-WW-G2-x	16	400	3000	22	2840	129	B1-U0-G0	2592	118	B1-U0-G1	2650	120	B1-U0-G1
101L-16L-530-WW-G2-x	16	530	3000	28	3439	122	B1-U0-G0	3138	112	B1-U0-G1	3208	114	B1-U0-G1
101L-16L-700-WW-G2-x	16	700	3000	38	4425	115	B1-U0-G1	4038	105	B1-U0-G1	4129	108	B1-U0-G1
101L-16L-1000-WW-G2-x	16	1000	3000	55	5899	108	B2-U0-G1	5383	98	B1-U0-G2	5502	100	B1-U0-G2
101L-16L-1200-WW-G2-x	16	1200	3000	66	6709	102	B2-U0-G1	6123	93	B1-U0-G2	6259	95	B1-U0-G2
101L-32L-530-WW-G2-x	32	530	3000	52	6655	128	B2-U0-G1	6073	117	B1-U0-G2	6208	119	B1-U0-G2
101L-32L-700-WW-G2-x	32	700	3000	70	8458	120	B2-U0-G1	7719	110	B1-U0-G2	7892	112	B1-U0-G2
101L-32L-1000-WW-G2-x	32	1000	3000	107	11443	107	B3-U0-G2	10442	98	B2-U0-G2	10675	100	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
101L-16L-200-NW-G2-x	16	200	4000	12	1567	131	B1-U0-G0	1429	119	B0-U0-G0	1461	122	B0-U0-G0
101L-16L-400-NW-G2-x	16	400	4000	22	2990	136	B1-U0-G0	2728	124	B1-U0-G1	2789	127	B1-U0-G1
101L-16L-530-NW-G2-x	16	530	4000	28	3620	129	B1-U0-G1	3303	118	B1-U0-G1	3377	120	B1-U0-G1
101L-16L-700-NW-G2-x	16	700	4000	38	4658	121	B1-U0-G1	4251	111	B1-U0-G1	4346	113	B1-U0-G1
101L-16L-1000-NW-G2-x	16	1000	4000	55	6209	113	B2-U0-G1	5666	103	B1-U0-G2	5792	106	B1-U0-G2
101L-16L-1200-NW-G2-x	16	1200	4000	66	7062	108	B2-U0-G1	6445	98	B1-U0-G2	6588	100	B1-U0-G2
101L-32L-530-NW-G2-x	32	530	4000	52	7005	135	B2-U0-G1	6393	123	B1-U0-G2	6535	126	B1-U0-G2
101L-32L-700-NW-G2-x	32	700	4000	70	8903	127	B2-U0-G1	8125	116	B1-U0-G2	8307	118	B2-U0-G2
101L-32L-1000-NW-G2-x	32	1000	4000	107	12045	113	B3-U0-G2	10992	103	B2-U0-G2	11237	105	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
101L-16L-200-CW-G2-x	16	200	5000	12	1567	131	B1-U0-G0	1429	119	B0-U0-G0	1461	122	B0-U0-G0
101L-16L-400-CW-G2-x	16	400	5000	22	2990	136	B1-U0-G0	2728	124	B1-U0-G1	2789	127	B1-U0-G1
101L-16L-530-CW-G2-x	16	530	5000	28	3620	129	B1-U0-G1	3303	118	B1-U0-G1	3377	120	B1-U0-G1
101L-16L-700-CW-G2-x	16	700	5000	38	4658	121	B1-U0-G1	4251	111	B1-U0-G1	4346	113	B1-U0-G1
101L-16L-1000-CW-G2-x	16	1000	5000	55	6209	113	B2-U0-G1	5666	103	B1-U0-G2	5792	106	B1-U0-G2
101L-16L-1200-CW-G2-x	16	1200	5000	66	7062	108	B2-U0-G1	6445	98	B1-U0-G2	6588	100	B1-U0-G2
101L-32L-530-CW-G2-x	32	530	5000	52	7005	135	B2-U0-G1	6393	123	B1-U0-G2	6535	126	B1-U0-G2
101L-32L-700-CW-G2-x	32	700	5000	70	8903	127	B2-U0-G1	8125	116	B1-U0-G2	8307	118	B2-U0-G2
101L-32L-1000-CW-G2-x	32	1000	5000	107	12045	113	B3-U0-G2	10992	103	B2-U0-G2	11237	105	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
101L-16L-200-NW-G2-x-EBPC	16	200	4000	12	14	1567	1654	1429	1510	1461	1543
101L-16L-400-NW-G2-x-EBPC	16	400	4000	22	14	2990	1654	2728	1510	2789	1543
101L-16L-530-NW-G2-x-EBPC	16	530	4000	28	14	3620	1654	3303	1510	3377	1543
101L-16L-700-NW-G2-x-EBPC	16	700	4000	38	14	4658	1654	4251	1510	4346	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	Drive current	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%**

101L 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 130 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.

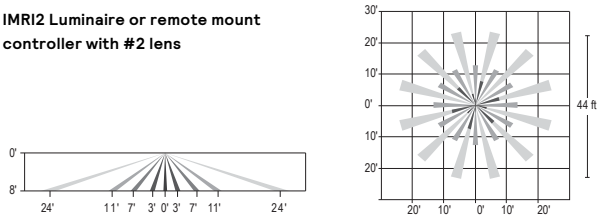
Emergency Battery Backup Cold Pack (EBPC): Emergency battery pack is cold weather rated down to -20°C (-4°F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 16L configuration from 200mA 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

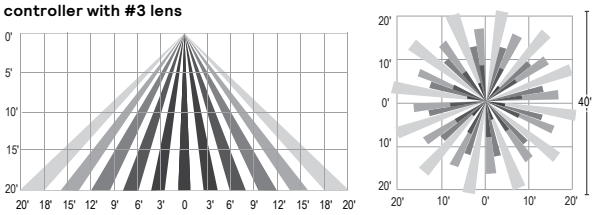
Bi-Level Infrared Motion Response (BL-IMRI3): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected 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



101L LED wall sconce

Specifications

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.

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. TLRPC is shipped standard with 5 pin.

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 per 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).

Warranty

101L 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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