



Gardco LED wall sconce 161 offers distinction through its styling, powerful optical design, array of distributions, and impressive selection of control possibilities. Designed to compliment the 121, this luminaire is the large and extended version of the 121, providing performance capability up to that of a 400W metal halide luminaire, while using considerably less energy.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

Luminaire	Number of LEDs	Drive Current	LED Color Generation	Distributions	Voltage	Dimming Control ⁴	Electrical	Options	Finish
161								WS	
161 LED wall sconce	46L² 46 LEDs (1 module)	600 600mA 900 900mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5700K, 70 CRI Generation 2	2 IES Type 2 3 IES Type 3 4 IES Type 4	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V AC HVU 347-480V AC	DD 0-10V Dimming Driver ² DCC Dual Circuit Control ¹ DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming, 7 hours ^{1,2,3} CM50 Median 50% Dimming, 8 hours ^{1,2,3} CE50 Economy 50% Dimming, 9 hours ^{1,2,3} DA50 All Night 50% Dimming ^{1,2,3} Photoelectric Systems PCB Photocontrol Button ^{2,4,5} Infrared Motion Response Systems IMRI3 Integral with #3 lens ^{1,2,3}	Fusing F1 Single (120, 277, 347VAC) ⁵ F2 Double (208, 240, 480VAC) ⁵ F3 Canadian Double Pull (208, 240, 480VAC) ⁵	WS Surface mount conduit feed junction box	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. Not available with Dimming Driver (DD) option.
2. Not available with Dual Circuit Control (DCC) option.
3. Available in 120-277V or UNV only.
4. Not available with 480V.
5. Must specify specific input voltage.

Accessories (order separately)

FS1R-100 MR hand held programmer (For use with 'IMRI3' motion response when field programming is required). If desired, only one is needed per job.

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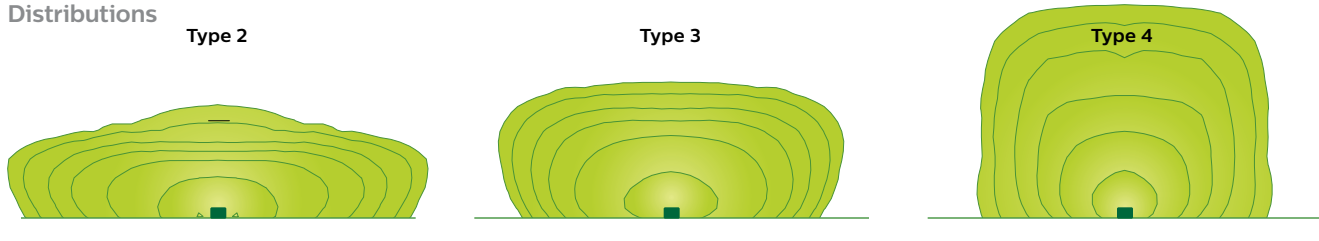
Wall Sconce

LED Wattage and Lumen Values

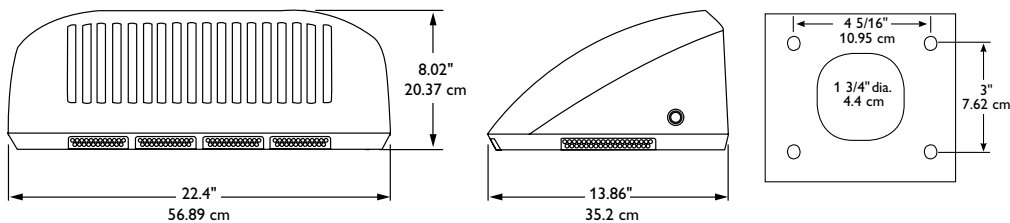
Neutral White Ordering Codes	Total LEDs	Module Qty	LED Current (mA)	Color Temp. ³ (K)	Average System Wattage ¹	Type 2			Type 3			Type 4		
						Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)
161-46L-600-NW-G2	46	1	600	4000	91	11,000	B2-U0-G2	120	10,653	B2-U0-G2	117	10,245	B2-U0-G2	112
161-46L-900-NW-G2	46	1	900	4000	138	15,056	B3-U0-G3	109	14,581	B2-U0-G2	106	14,022	B2-U0-G2	102
161-92L-600-NW-G2	92	2	600	4000	181	21,811	B3-U0-G3	121	21,122	B3-U0-G3	117	20,313	B3-U0-G3	112
161-92L-800-NW-G2	92	2	800	4000	242	27,302	B3-U0-G3	113	26,440	B3-U0-G4	109	25,427	B3-U0-G4	105

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward voltage specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
3. Warm White color temperatures will result in decreased lumen output.
Contact outdoorlighting.applications@signify.com for details or additional information.

Distributions



Dimensions



Approximate luminaire weight: 40lbs (18.15kg)

Mounting plate and bolt pattern
Mounting plate center is located in the center of the luminaire width and 3.5" (8.89cm) above the luminaire bottom (lens down position). Splices must be made in the J-box (by others). Mounting plate must be secured by max. 5/16" (.79cm) diameter bolts (by others) structurally to the wall.

Luminaire options

DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

Dynadimmer Automatic Profile Dimming: Automatic dimming profiles (CS50/CM50/CE50) offer safety, median, or economy settings, for shorter or longer duration. Dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. 50% dimming is standard. DA50 offers 50% instantaneous dimming all night (during all dark hours). 75% and 25% dimming is also available if different light levels are required (contact Technical Support for details).

Profile	Dimming		
	Schedule	Duration	Level
Economy	9 PM - 6 AM	9 hours	50%
Median	10 PM - 6 AM	8 hours	50%
Safety	11 PM - 6 AM	7 hours	50%
Reactive 50	all night	dynamic	50%

IMRI3: Infrared Motion Response Integral. IMRI module is mounted integral to luminaire. Motion response for UMRI 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 minute 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. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected.

Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens. Available in 120V through 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FSIR-100 remote programming tool accessory.

DCC: Dual Circuit Control permits separate switching of LED modules. Available as an option with 2 modules only.

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

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Specifications

Housing

Main body castings made of a low copper die cast Aluminum alloy (A360) for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness.

Driver/Electrical Door

Removable die-cast aluminum door made of a low copper alloy (A360). Provides access to electronic components/LED drivers. Designed for robust IP66 rated seal using one-piece silicone rubber gasket surrounding the entire perimeter of the electronics compartment.

Light Engine

Electrical components are RoHS compliant. IP66 sealed light engines. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985 +/- 275K), CRI 70 Min. 161 luminaires also offer 3000K and 5700k color temperatures.

Optical System

The advanced LED optical systems provide IES Types 2, 3, and 4 distributions. Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark sky compliant with 0% uplight and U0 per IESNA TM-15. Designed and tested to rating IK10 in accordance with European standard EN 62262 (equivalent of international standard IEC 62262 2002).

Driver

High power factor of 90% min. Electronic driver, operating range 50/60Hz. Auto adjusting universal voltage input from 120 to 277VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class 1, THD of 20% max. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 4kV (min).

Other Integrated Features

Surge Protection: Each luminaire is provided as standard with surge protector (designed SP1) 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.

Wiring

#2 - #14 AWG wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a time delay or slow blow fuse to avoid unnecessary and unwanted fuse blowing that can occur with fast acting fuses.

Hardware

All exposed screws shall be stainless and/or corrosion resistant and captive. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. RAL and custom color matching available. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint (2.5 mil 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.

LED Product Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Luminaire Useful Life

Luminaire Useful Life accounts for LED lumen maintenance. Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, LED LM-80/TM-21, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C.

Certifications and Compliance

cULus Listed for Canada and USA. LED luminaires with neutral white color temperature are DesignLights Consortium qualified. Entire luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F).

Limited Warranty

5-year limited warranty. See signify.com/warranties for details and restrictions. Visit our eCatalog or contact your local sales representative for more information.

