



Gardco SlenderFormSFC/SFCR garage and canopy luminaire features high output LEDs and a sleek, yet powerful, low profile design. The thin 3" profile combined with LED high output performance make SlenderForm the ideal choice for exterior ceiling mount and canopy applications. SlenderForm luminaires also provide LED solutions for parking garage applications requiring higher light levels, including entrances, and for garage areas with high ceilings.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

example: SFC-DD-5W-48L-700-NW-G2-UNV-MGY

Prefix	Controls	Distribution	LED Count	Drive Current	LED Color - Generation	Voltage	Finish	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	48L	<input type="text"/>	<input type="text"/>	<input type="text"/>	MGY	<input type="text"/>
SFC SlenderForm Ceiling luminaire	- Standard Luminaire	3 Type III	48L 48 LEDs	250 250mA	NW-G2 Neutral White 4000K, 70CRI Generation 2	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V	MGY Medium Gray	F1 Single Fuse (120, 277, 347V) ⁵ F2 Double Fuse (208, 240, 277V) ^{4,5} F3 Double Fuse (208, 240, 480V) ^{4,5} Canadian double pull DL Diffusing Lens (reduces performance significantly) PCB Button Photocontrol ^{6,5} BX Bird Excluding Shroud ^{5,6,7} JB J-Box for Pendant Mounting ^{5,7} GL Glass Lens assembly
SFCR SlenderForm Ceiling luminaire (recessed mounting) ¹	DD 0-10V Dimming ² MR Motion Response ^{3,5}	5W Type V, Wide Distribution 5R Type V, Rectangular Distribution CD Concentrated Downlight		400 400mA 550 550mA 700 700mA 900 900mA ⁵	WW-G2 Warm White 3000K, 70CRI Generation 2 CW-G2 Cool White 5700K, 70CRI Generation 2			

1. SFCR recessed mount NOT available with 900mA, MR, PCB, BX or JB.
2. Luminaire includes 0-10V input wires for dimming control by a dimming system supplied by others.
3. Only available in 120 through 277V.

4. Specify actual input voltage.
5. Not available with SFCR recessed mount units.
6. Shroud is for Pendant mount only. 12" (30.48cm) minimum pendant length required. Pendant by others. Option is installed in the field only.

7. For rigid and swivel pendant mount. Pendants by others.

Accessories

(order separately)

FSIR-100⁵

MR hand held programmer

For use with 'MR' motion response when field programming is required. If desired, only one is needed per job.

LED Wattage and Lumen Values Standard SFC & SFCR luminaires

Order Code	LED Qty	System Current (mA)	Color Temp (K)	Ave System Watts (W)	3		5W		5R		CD	
					Lumen Output	Efficacy (lm/W)	Lumen Output	Efficacy (lm/W)	Lumen Output	Efficacy (lm/W)	Lumen Output	Efficacy (lm/W)
SFC or SFCR-48L-250-NW-G2	48	250	4000	38	4636	121	4804	125	4660	122	4656	122
SFC or SFCR-48L-400-NW-G2	48	400	4000	60	6932	116	7182	121	6968	117	6962	117
SFC or SFCR-48L-550-NW-G2	48	550	4000	82	9323	114	9660	119	9372	115	9364	115
SFC or SFCR-48L-700-NW-G2	48	700	4000	104	11609	112	12028	116	11670	112	11659	112
SFC or SFCR-48L-900-NW-G2	48	900	4000	133	14184	107	14696	111	14258	107	14245	107

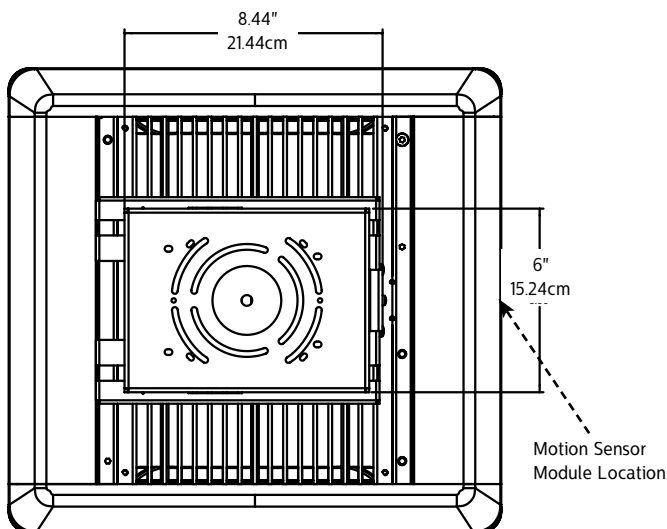
Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Signify. Lumen output by optic type will vary slightly. See IES files when available. All technical data is subject to change.

SFC & SFCR SlenderForm LED luminaire

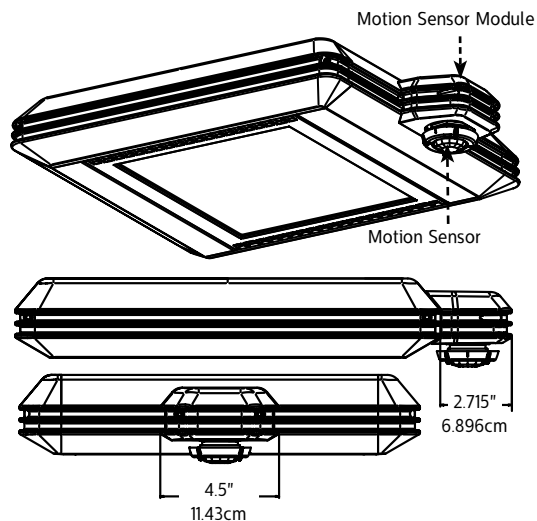
Garage & Canopy – Canopy Mount

Dimensions

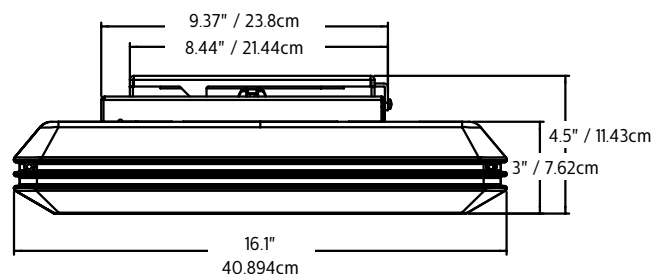
Surface mount top view



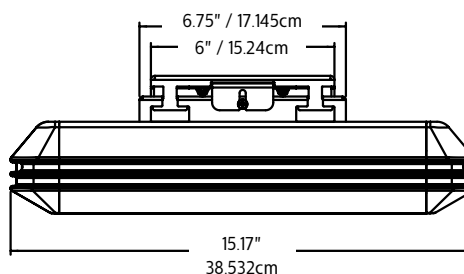
Surface mount luminaires with motion response
(NOTE: Motion response NOT available with recessed mount).



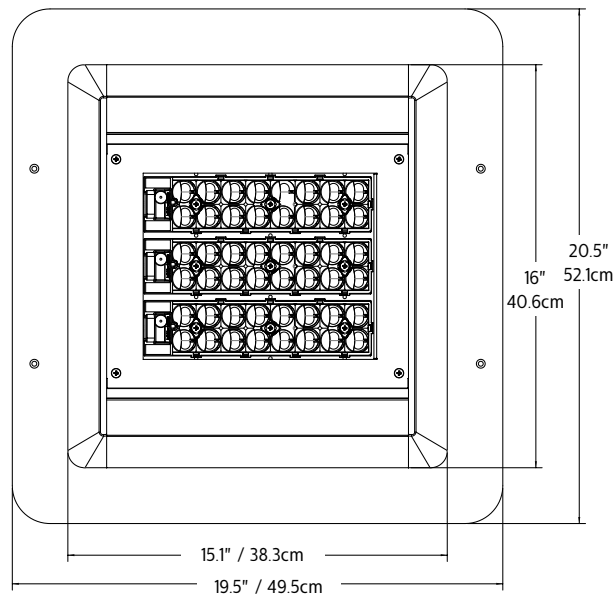
Surface mount side view



Surface mount end view



Recessed mount bottom view



P&Z

PZ19-12000016
10/28/2020

SFC & SFCR SlenderForm LED luminaire

Garage & Canopy – Canopy Mount

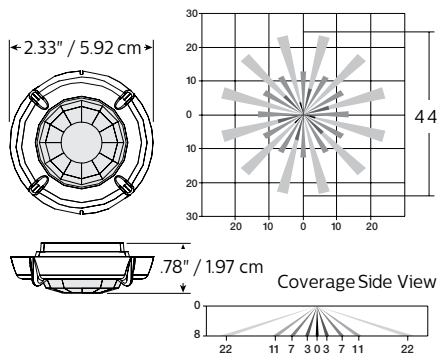
Motion Response Luminaires

Programmable Motion Response

SFC-MR luminaires include a passive infrared (PIR) motion sensor (WattStopper® FS-211 equipped with an FS-L2W lens) capable of detecting motion within 22 feet of the sensor, 360° around the luminaire, when placed at an 8 foot mounting height. The PIR sensor is mounted as indicated in drawings on page 2. Available in 120V or 277V input only. Motion sensor off state power is 0.0 watts.

In Motion Response (MR) luminaires, when no motion is detected for 10 minutes, the Motion Response system reduces the wattage by 80%, to 20% (per RP-20) of the normal constant wattage, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. Dimming on low is factory set to 80% with duration set at 10 minutes.

The approximate motion sensor coverage pattern is as shown below.



FSIR-100 Wireless Remote Programming Tool

The FSIR-100 Remote Programming Tool accessory enables on-site field adjustment of sensor settings, including duration and dimming level on low, without the need to connect any wires to the luminaire.

The FSIR-100 Wireless IR Programming Tool is a handheld tool for setup and testing of WattStopper FSP-211. It provides wireless access to the FSP-211 sensors for setup and parameter changes.

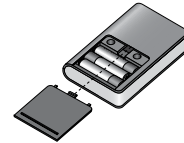
The FSIR-100 display shows menus and prompts to lead you through each process. The navigation pad provides a familiar way to navigate through the customization fields.

Within 8'-12' mounting height of the sensor, the FSIR-100 allows modification of the system without requiring ladders or tools simply with a touch of a few buttons.

The FSIR-100 IR transceiver allows bi-directional communication between the FSP-211 and the FSIR-100 programming tool. Simple menu screens let you see the current status of the system and make changes. It can change FSP-211 sensor parameters such as high/low mode, sensitivity, time delay, cut off and more. With the FSIR-100 you can also establish and store FSP-211 parameter profiles.

The FSIR-100 operates on three standard 1.5V AAA Alkaline batteries or three rechargeable AAA NiMH batteries. The battery status displays in the upper right corner of the display. Three bars next to BAT= indicates a

full battery charge. A warning appears on the display when the battery level falls below a minimum acceptable level. To conserve battery power, the FSIR-100 automatically shuts off 10 minutes after the last key press.

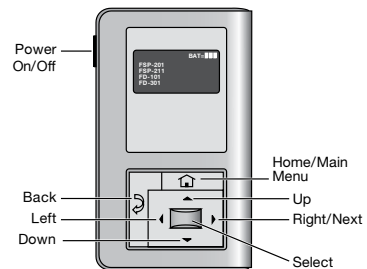


You navigate from one field to another using (up) or (down) arrow keys. The active field is indicated by flashing (alternates between

yellow text on black background and black text on yellow background.)

Once active, use the Select button to move to a menu or function within the active field. Value fields are used to adjust parameter settings. They are shown in "less-than/greater-than" symbols: <value>. Once active, change them using (left) and (right) arrow keys. In general the up key increments and the down key decrements a value. Selections wrap-around if you continue to press the key beyond maximum or minimum values. Moving away from the value field overwrites the original value. The Home button takes you to the main menu. The Back button can be thought of as an undo function. It takes you back one screen. Changes that were in process prior to pressing the key are lost.

More information on the FSIR-100 Remote Programming Tool is available at wattstopper.com.

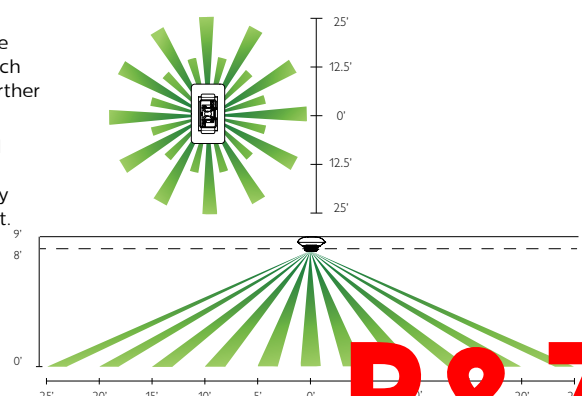


Radio and motion sensor details

- Motion sensor coverage can be adjusted from a narrow to a wide (25' radius) detection range, which helps reduce false triggers to further increase energy savings.
- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5MHz

- Motion sensor coverage can be adjusted from a narrow to a wide (25' radius) detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height.
- ROHS Compliant

Typical Sensor Coverage



P&Z

PZ19-12000016
10/28/2020

SFC & SFCR SlenderForm LED luminaire

Garage & Canopy – Canopy Mount

Specifications

General Description

Each Gardco SlenderForm luminaire is a ceiling surface, ceiling pendant or recessed mounted ceiling / canopy / garage luminaire featuring LEDs mounted in a fixed array. Internal components are totally enclosed in a rain-tight, dust-tight and corrosion resistant housing. Luminaires are suitable for wet locations.

Housing

Rugged extruded aluminum housing body with an integral LED thermal management system, with die cast aluminum end caps.

Surface Mounted Luminaires – Quick mount plate and mounting

A die formed 14 ga. galvanized steel plate is supplied for mounting to a recessed, surface, or rigid pendant hung 4" (10.16 cm) j-box (standard j-box and rigid pendant by others). All pendants, including rigid pendants and swivel pendants are supplied by others.

Caution: Gardco is not responsible for failure of mounting components supplied by others. Proper care should be exercised in mounting component selection to ensure adequate luminaire support, given luminaire weight, vibration potential and thermal conditions present in the application. If luminaires are supported solely by screws into a composite j-box, additional support directly to structure is recommended.

Recessed Mounted Luminaires

SFCR luminaires are provided with a recessed mounting kit for installation in a drywall ceiling which includes a wood support structure. **SFCR luminaires are not suitable for installation in a grid ceiling.** Mounting kit includes a flush trim assembly. Installation can be performed from above or below the ceiling. The mounting kit has adjustable supports that mount to wooden support beams, capable of adjustment from a minimum 20" to a maximum 23.4" spacing.

SFCR luminaires are rated non-IC and require a minimum 3" clearance from insulation in all directions. The bottom of the luminaire will be approx. 1" below the ceiling after installation. SFCR recessed mount luminaires are NOT available with 900mA, MR, PCB, BX or JB.

LED Module

48 high power LEDs. Metal core printed circuit board. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. IP66 sealed light engines designed and tested to rating IK10 in accordance with European standard EN 62262 (equivalent of international standard IEC 62262 2002). RoHS compliant. Color temperatures per ANSI/NEMA bin Warm White 3000K nominal (3045 +/- 175K), Neutral White 4000 Kelvin nominal (3985 +/- 250K), or Cool White 5700K nominal (5667 +/- 355K). CRI 70 min.

Electrical

Luminaires are equipped with an LED driver system that accepts 120V through 277V, 50hz to 60hz, (UNIV), or a driver that accepts 347V or 480V input. Power factor is not less than 90%. Optional 0-10V dimming to 10% power. RoHS compliant. Surge protector standard and is in accordance with IEEE / ANSI C62.41.2 guidelines, with a surge current rating of 10kA.

Optical Systems

The Type 3 optic is an LED array providing an IES Type III distribution. The Type 5 optic is an LED array providing an IES Type V, wide distribution. The Type 5R optic is an LED array providing an IES Type V distribution, in a rectangular pattern. The concentrated downlight (CD) optic is an LED array that provides a circular pattern of concentrated light directly below the luminaire.

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish. Standard color is Medium Gray paint.

Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	Calculated L70hrs ^{1,2}	L70 per TM21 ^{2,3}	Lumen Maintenance @ 60,000hrs
25 °C	900 mA	>100,000	>60,000	97%

1. 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.
2. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM 21-11. Published L70 hours limited to 6 times actual LED test hours.

LED Thermal Management

The housing design provides integral extruded aluminum thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

IP Rating

SlenderForm luminaires are IP65 rated with dedicated IP66 rated LED modules. Optional GL Glass Lens assembly available when tempered glass lens is required.

Controls

Motion Response luminaires (MR) include a passive infrared (PIR) motion sensor (WattStopper FSP-211 equipped with an FS-L2W lens) capable of detecting motion within 22 feet of the sensor, 360° around the luminaire, when placed at an 8-12 foot mounting height. Available in 120V to 277V input only. Motion sensor off state power is 1 watt. In Motion Response luminaires, when no motion is detected for 10 minutes, the Motion Response system reduces the wattage by 80%, to 20% of the normal constant wattage per RP-20, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. Includes a daylight sensor which enables daylight harvesting. Wireless Remote Programming tool available (FSIR-100) for field programming (ordered separately).

Listings

cULus Listed for Canada and USA. Entire luminaire is rated for operation in ambient temperatures from -40°F (-40°F) to +40°C (+104°F). SFC and SFCR luminaires are DesignLights Consortium qualified when ordered with CW or NW LED color temperature. WW option does not meet DLC.

Limited Warranty

5 year limited warranty. See signify.com/outdoorluminaires for complete details and exclusions.

