



Gardco SlenderForm SFC/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

Luminaire		Controls		Distribution		LED Count		Drive Current	
						48L			
SFC	SlenderForm Ceiling luminaire	-	Standard Luminaire	3	Type III	48L	48 LEDs	250	250mA
		DD	0-10V Dimming external leads (controls by others) ^{2,8}	5W	Type V, Wide Distribution			400	400mA
SFCR	SlenderForm Ceiling luminaire (recessed mounting) ¹	MR	Motion Response ^{3,5,8}	5R	Type V, Rectangular Distribution			550	550mA
				CD	Concentrated Downlight			700	700mA
								900	900mA ⁵

LED Color - Generation		Voltage		Finish		Options				
				MGY						
NW-G2	Neutral White 4000K, 70CRI Generation 2	120	120V	MGY	Medium Gray	F1	Single Fuse (120, 277, 347V) ^{4,5}			
WW-G2	Warm White 3000K, 70CRI Generation 2	208	208V			F2	Double Fuse (208, 240, 277V) ^{4,5}			
CW-G2	Cool White 5000K, 70CRI Generation 2	240	240V			F3	Double Fuse (208, 240, 480V) ^{4,5} Canadian double pull			
		277	277V			DL	Diffusing Lens (reduces glare, see lumen values chart)			
		347	347V			PCB	Button Photocontrol ^{3,4,5}			
		480	480V			BX	Bird Excluding Shroud ^{5,6,7}			
		UNV	120-277V			GL	Glass Lens assembly			

- SFCR recessed mount NOT available with 900mA, MR, PCB, BX or JB.
- Luminaire includes 0-10V input wires for dimming control by a dimming system supplied by others.
- Only available in 120 through 277V.
- Must specify applicable specific input voltage, not available with UNV or HVU.
- Not available with SFCR recessed mount units.
- Shroud is for Pendant mount only. 12" (30.48cm) minimum pendant length required. Pendant by others. Option is installed in the field only.
- For rigid and swivel pendant mount. Pendants by others.
- 0-10V dimming driver standard. Choose only 1 Controls option: either DD or MR.

SFC & SFCR SlenderForm LED luminaire

Garage & Canopy – Canopy mount

Accessories¹ (order separately)

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

CAST J-BOX LED PENDANT J-Box for Pendant Mounting (for rigid and swivel pendant mount, pendant by others)

1. Not available with SFCR recessed mount units.

LED Wattage and Lumen Values Standard SFC & SFCR luminaires

Order Code	LED Qty	System Current (mA)	Color Temp (K)	Average System Watts (W)	3			5W			5R			CD		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
SFC or SFCR-48L-250-NW-G2	48	250	4000	38	4,636	B1-U0-G1	121	4,804	B3-U0-G1	125	4,660	B3-U0-G3	122	4,656	B2-U0-G0	122
SFC or SFCR-48L-400-NW-G2	48	400	4000	60	6,932	B1-U0-G2	116	7,182	B3-U0-G1	121	6,968	B3-U0-G3	117	6,962	B3-U0-G1	117
SFC or SFCR-48L-550-NW-G2	48	550	4000	82	9,323	B2-U0-G2	114	9,660	B3-U0-G2	119	9,372	B3-U0-G3	115	9,364	B3-U0-G1	115
SFC or SFCR-48L-700-NW-G2	48	700	4000	104	11,609	B2-U0-G2	112	12,028	B4-U0-G2	116	11,670	B4-U0-G4	112	11,659	B3-U0-G1	112
SFC-48L-900-NW-G2	48	900	4000	133	14,184	B2-U0-G3	107	14,696	B4-U0-G2	111	14,258	B4-U0-G4	107	14,245	B3-U0-G1	107
SFC or SFCR-48L-250-CW-G2	48	250	5700	38	4,447	B1-U0-G1	116	4,608	B3-U0-G1	120	4,471	B3-U0-G3	117	4,466	B2-U0-G0	117
SFC or SFCR-48L-400-CW-G2	48	400	5700	60	6,650	B1-U0-G2	112	6,890	B3-U0-G1	116	6,685	B3-U0-G3	112	6,678	B3-U0-G1	112
SFC or SFCR-48L-550-CW-G2	48	550	5700	82	8,944	B2-U0-G2	110	9,267	B3-U0-G2	114	8,991	B3-U0-G3	110	8,982	B3-U0-G1	110
SFC or SFCR-48L-700-CW-G2	48	700	5700	104	11,136	B2-U0-G2	107	11,539	B4-U0-G2	111	11,195	B4-U0-G4	108	11,184	B3-U0-G1	108
SFC-48L-900-CW-G2	48	900	5700	133	13,607	B2-U0-G3	102	14,098	B4-U0-G2	106	13,678	B4-U0-G4	103	13,665	B3-U0-G1	103
SFC or SFCR-48L-250-WW-G2	48	250	3000	38	3,949	B1-U0-G1	103	4,091	B3-U0-G1	107	3,970	B3-U0-G3	104	3,966	B2-U0-G0	104
SFC or SFCR-48L-400-WW-G2	48	400	3000	60	5,904	B1-U0-G2	99	6,118	B3-U0-G1	103	5,935	B3-U0-G3	100	5,930	B3-U0-G1	99
SFC or SFCR-48L-550-WW-G2	48	550	3000	82	7,941	B2-U0-G2	97	8,228	B3-U0-G2	101	7,983	B3-U0-G3	98	7,976	B3-U0-G1	98
SFC or SFCR-48L-700-WW-G2	48	700	3000	104	9,888	B2-U0-G2	95	10,245	B4-U0-G2	99	9,940	B4-U0-G4	96	9,931	B3-U0-G1	96
SFC-48L-900-WW-G2	48	900	3000	133	12,082	B2-U0-G3	91	12,518	B4-U0-G2	94	12,145	B4-U0-G4	91	12,134	B3-U0-G1	91

LED wattage and lumen values: DL Diffuse Lens

Order Code	LED Qty	System Current (mA)	Color Temp (K)	Average System Watts (W)	3-DL			5W-DL			5R-DL			CD-DL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
SFC or SFCR-48L-250-NW-G2	48	250	4000	38	3,495	B1-U0-G1	91	3,845	B2-U0-G1	100	3,702	B2-U0-G1	97	4,311	B2-U0-G0	113
SFC or SFCR-48L-400-NW-G2	48	400	4000	60	5,226	B1-U0-G1	88	5,749	B2-U0-G1	96	5,535	B2-U0-G1	93	6,446	B2-U0-G0	108
SFC or SFCR-48L-550-NW-G2	48	550	4000	82	7,029	B2-U0-G1	86	7,733	B2-U0-G1	95	7,445	B3-U0-G1	91	8,670	B3-U0-G0	106
SFC or SFCR-48L-700-NW-G2	48	700	4000	104	8,752	B2-U0-G2	84	9,629	B3-U0-G1	93	9,269	B3-U0-G1	89	10,795	B3-U0-G1	104
SFC-48L-900-NW-G2	48	900	4000	133	10,694	B2-U0-G2	80	11,765	B3-U0-G1	89	11,326	B3-U0-G1	85	13,189	B3-U0-G1	99

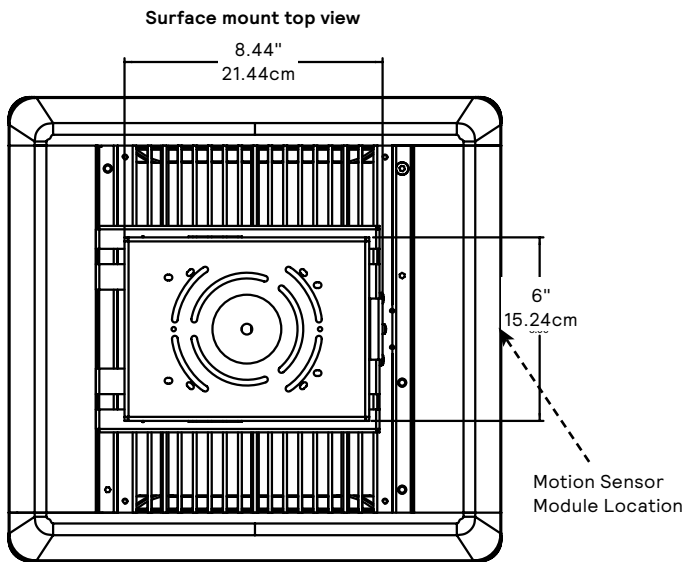
Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm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

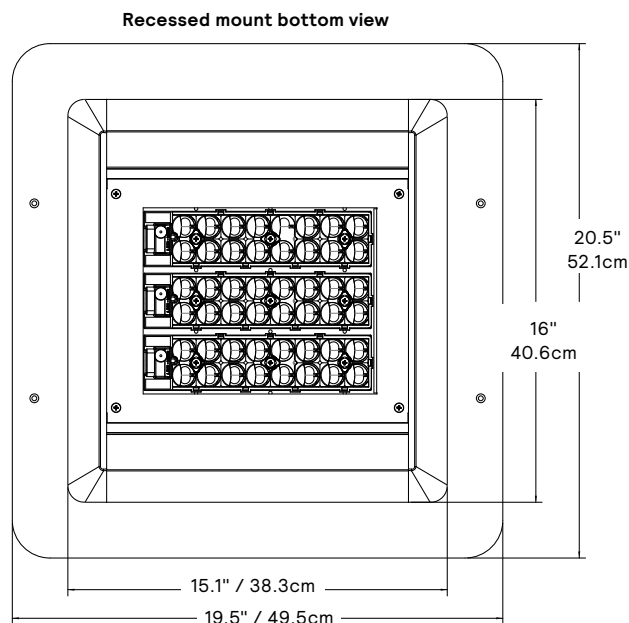
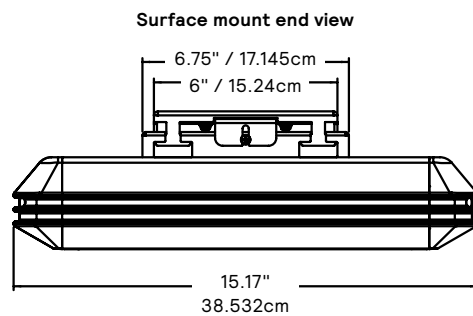
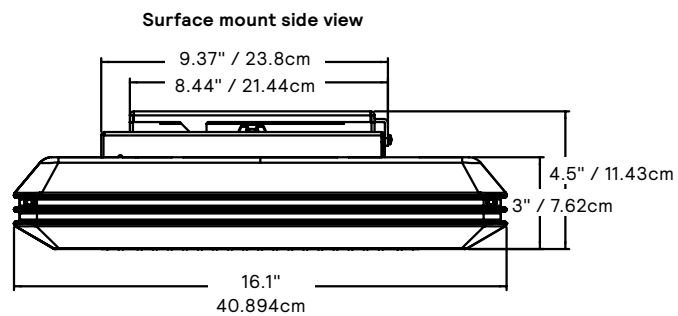
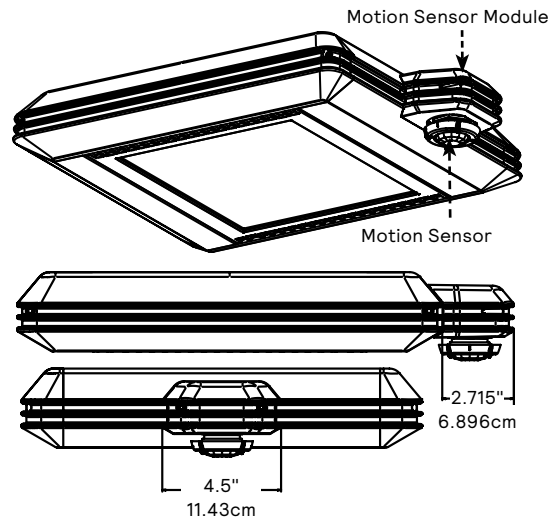
SFC & SFCR SlenderForm LED luminaire

Garage & Canopy – Canopy mount

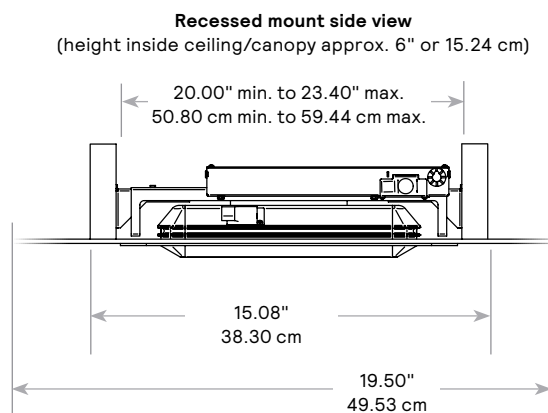
Dimensions



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



Approximate Luminaire Weight	(lbs)	(Kg)
SFC	27lbs	12.3Kg
SFCR	37lbs	16.8Kg



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 EZ-hang 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 5000K nominal (5029 +/- 283K).

Electrical

Constant current electronic driver. High power factor (0.9 minimum). 50/60 Hz. Low THD (20% maximum). Open/short circuit protection and voltage overload protection, automatic recovery after correction. Driver comes standard with 6KV on-board surge protection. Dimming driver standard. 0-10V dimming to minimum 10% power. RoHS compliant. Surge protector standard and tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10KV/10KA waveforms for Line-Ground, Line-Neutral and Neutral-Ground. Surge protection device wired in parallel so that if it fails open the luminaire will remain lit/powerd on.

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.

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.

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.

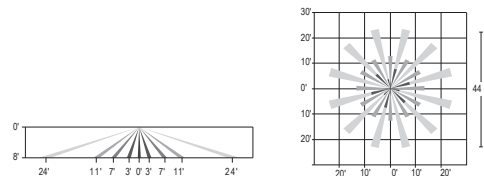
IP Rating

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

Control Options

DD: 0-10V dimming driver with dimming wires externally accessible for connecting dimming controls by others.

MR: Motion Response luminaires include a WattStopper passive infrared (PIR) motion sensor. Motion sensor standby power is 0.5 watts. 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-8, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. Motion Response includes light sensor feature called Photocell On/Off which is disabled by default. This feature can be enabled in the field using the hand-held Wireless Remote Programming Tool FSIR-100 (ordered separately) – this allows for daylight harvesting (California Title 24 compliant). Motion sensor also includes reading/measuring feature called Light Level that can be used to establish a baseline for daylight harvesting. See FSIR-100 User Guide for details.



SFC & SFCR SlenderForm LED luminaire

Garage & Canopy – Canopy mount

Specifications

Hardware and Seals

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

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as 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.

LED Luminaire Useful Life

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, exclusive Signify System Reliability Tool, Advance driver data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000+ hours with L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Certifications and Compliance

cULus Listed for Canada and U.S. to the UL 1598 and UL8750 standards, suitable for Wet Locations. Suitable for use in ambients from -40°C (-40°F) to +40°C (+104°F). The quality systems of the facility where manufactured have been registered by UL to the ISO 9001 series standards. Configurations are DesignLights Consortium qualified, consult DLC QPL Qualified Products List for more details. Controls options enable compliance with Outdoor lighting energy codes including ASHRAE 90.1, California Title 24, and IECC.

Limited Warranty

5-year limited warranty.

See [signify.com/warranties](https://www.signify.com/warranties) for complete details and exclusions.

Predicted Lumen Depreciation Data

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

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 based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.