

Solar lighting

SolarForm Gen 2





An all-in-one solar solution with style

Why Gardco for Solar?

Gardco, a trusted brand in outdoor lighting for over 60 years, is unlocking the benefits of solar lighting, a key part of our commitment to sustainability. Utilizing proven technology in use by Signify across the globe, Gardco is excited to bring this solution to North America. We want to empower our customers to move to cleaner technologies and extend their reach into areas where conventional lighting solutions are not possible.

SolarForm is an integrated solar solution with a Lithium Iron Phosphate battery, solar panel, and charger built into the luminaire. It features a die-cast aluminum housing for sturdiness and long life, while offering high brightness illumination with low blackout risk to help pedestrians feel more secure. Optional motion sensors and multiple dimming profiles adjust the lighting based on occupancy, making it a truly sustainable solar lighting solution.

SolarForm benefits:

- All-in-one solution
- Environmentally friendly
- Pleasing aesthetics
- Quick installation
- No trenching

Let Gardco SolarForm luminaire help solve your next lighting challenge. Visit www.gardcolighting.com/solarform to find out more!





Product details



Easy to install

All in one construction, adjustable tilt angles of 0 to 15 degrees, vertical or horizontal tenon, no trenching required.



Long product life plus a sense of security

Sturdy die-cast aluminum construction and LiFePO₄ battery. Reliable outdoor lighting helps make pedestrians feel more secure and may help deter crime.



Save money

Solar solutions mean lower electric bills and can help you take advantage of government rebates and tax incentives.



Environmentally friendly

Solar lighting is extremely clean, with a minimal carbon footprint, helping protect the future of our environment.



Motion sensing

Built in PIR sensor can detect motion to save energy by dimming.



Field Programmable

System status can be monitored, and operating profiles can be set on-site via a BLE App for easy monitoring and control.



High efficacy

High luminous efficacy of 175 lm/Watt to maximize battery performance.



Install almost anywhere

No area is too remote when the power comes from the sun. Ideal for a wide range of applications.

- · Residential street lighting
- Military establishments
- Industries
- Schools
- · Rural areas
- · Parks and pedestrian walkways
- Waterfronts
- Corporate campuses



1 Solar panel

Mono / Poly Crystalline Silicon are used to maximize solar radiation energy and the longevity of the PV.



10 Specialized mounting bracket

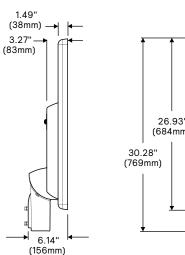
Pole mounting bracket with adjustable tilt angles of 0 to 15 degrees, which can be used with vertical or horizontal tenons

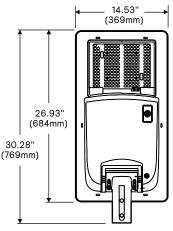


Dimensions, distributions, and dimming profiles

SolarForm Gen 2 - Small





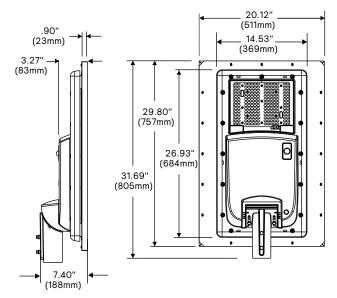


Effective Projected Area (EPA):

2000-3000L: .683 ft2 (.063 m2)

SolarForm Gen 2 - Large



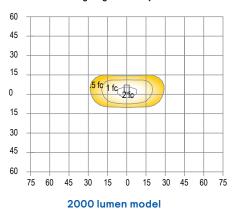


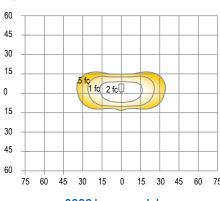
4500L weight: 41.9 lbs (19 Kg)

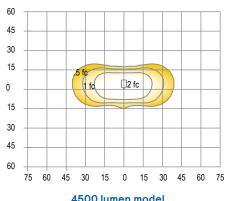
Effective Projected Area (EPA):

4500L: .832 ft2 (.077 m2)

Based on mounting height of 15ft (Dimensions below are in ft)







3000 lumen model

4500 lumen model

Weight

2000L: 19.8 lbs (9 Kg)

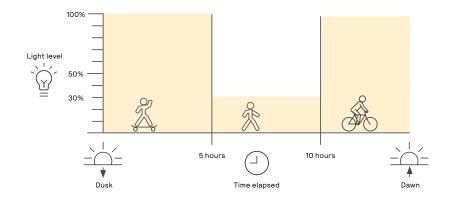
3000L: 23.1 lbs (10.5Kg)

FD - Fixed Dimming

FDX01

First 5 hours from dusk light level fixed at 100%. Next 5 hours light level fixed at 30%.

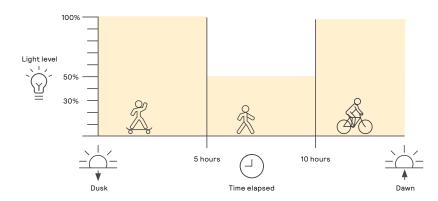
Remaining hours to dawn, light level fixed at 100%.



FDX02

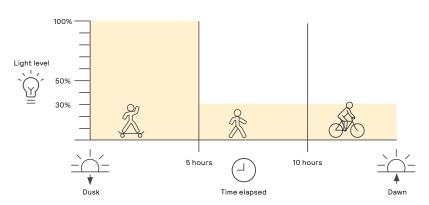
First 5 hours from dusk light level fixed at 100%. Next 5 hours light level fixed at 50%.

Remaining hours to dawn, light level fixed at 100%.



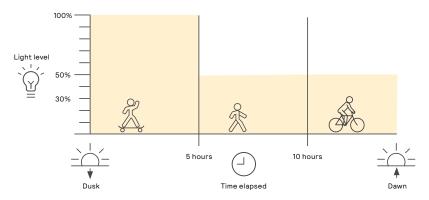
FD530

First 5 hours from dusk light level fixed at 100%. Remaining hours to dawn, light level fixed at 30%.



FD550

First 5 hours from dusk light level fixed at 100%. Remaining hours to dawn, light level fixed at 50%.



Dimensions, distributions, and dimming profiles

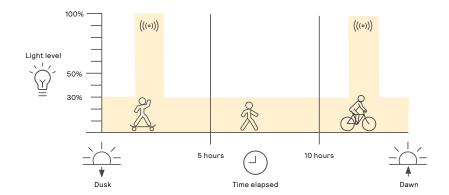
PD - Profile Dimming

PDX01

First 5 hours from dusk light level 100% when motion is detected and 30% when no motion is detected.

Next 5 hours, **motion sensor disabled**, and light level fixed at **30%**.

Remaining hours to dawn light level at 100% when motion is detected and 30% without motion.

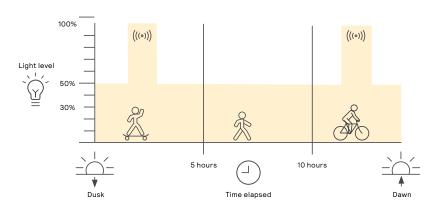


PDX02

First 5 hours from dusk light level 100% when motion is detected and 50% when no motion is detected.

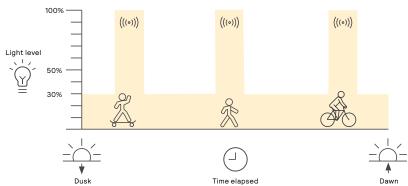
Next 5 hours, **motion sensor disabled**, and light level fixed at **50%**.

Remaining hours to dawn light level at 100% when motion is detected and 50% without motion.



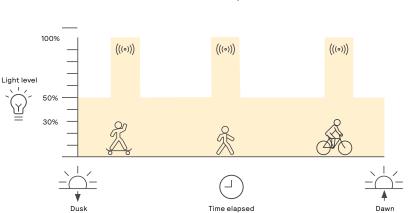
PD30

Dusk to dawn, light level is at 100% with motion and at 30% without motion.



PD50

Dusk to dawn, light level is at 100% with motion and at 50% without motion.



Ordering guides: luminaires

Luminaires

Ordering guide

Prefix SOF-S		Configuration		LED Color		Distribution		Motion Sensor		Dimming Profile		Battery Capacity B256		Finish	
SOF-S	SolarForm Small (PV Panel 36Wp)	LED20 LED30	2000lm 3000lm	730	70 CRI, 3000K 70 CRI, 4000K	Т2	Type 2	Blank MR	No motion sensor	FDX01 FDX02 FD530 FD550 PDX01 PDX02 PD30 PD50	Fixed dimming #1 Fixed dimming #2 Fixed dimming: 100% for 5 hrs then 30% till sunrise Fixed dimming: 100% for 5 hrs then 50% till sunrise Profile dimming #1 Profile dimming #2 Profile dimming: 100% with motion override and 30% without Profile dimming: 100% with motion override and 50% without	B256	Battery 256Wh	BK WH BZ DGY MGY RALXXXX CC	Black White Bronze Dark grey Medium grey RAL color Custom color

Ordering guide

Prefix SOF-L		Configuration		LED Color		Distribution		Motion Sensor		Operating Profile		Battery Capacity B384		Finish	
SOF-L	SolarForm Large (PV Panel 60Wp)	LED30 LED45	3000lm 4500lm	730	70 CRI, 3000K 70 CRI, 4000K	T2	Type 2	MR	No motion sensor Motion sensor	FDX01 FD530 FD550 PDX01 PDX02 PD30	Fixed dimming #1 Fixed dimming #2 Fixed dimming: 100% for 5 hrs then 30% till sunrise Fixed dimming: 100% for 5 hrs then 50% till sunrise Profile dimming #1 Profile dimming #2 Profile dimming: 100% with motion override and 30% without Profile dimming: 100% with motion override and 50% without	B384	Battery 384Wh	BK WH BZ DGY MGY RALXXXX CC	Black White Bronze Dark grey Medium grey RAL color Custom color

Ordering guides: poles and brackets

Poles and Brackets

Ordering guide

example: SSS-CB-4-11-12-T2D6L-N-BK

Family	Base	Pole Size (in.)	Pole Gauge	Height (ft.)	Drilling/Tenon Configuration	Drilling Template	Finish
SSS Straight	CB Carbon Steel	4	11 11 ga.	10	Horizont	tal Mounting	BK Black
Square	Base with			12	D1 1 Way	DT6 Drill template 6	BZ Bronze
Steel	Base Cover			14	D1@180 1 Way @ 180	(requires RLAR	WH White
				15	D2 2 Way @ 180	brackets, ordered	DG Dark Grey
				16	D2@90 2 Way @ 90	separately)*	MG Medium Grey
					18	Vertica	
				20	T2D6L 2-3/8" OD	N No drilling	
					tenon x	(for tenons)	
					6" length		

^{*} RLAR brackets are to be ordered as a separate accessory, 1 per luminaire: RLAR-1A-SQ4+-(finish)

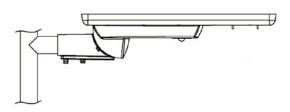
Ordering guide

example: SSS-CB-4-11-12-T2D6L-N-BK

Family	Base	Pole Size (in.)	Pole Gauge	Height (ft.)	Drilling/Tenon Configuration	Drilling Template	Finish
SRS Straight	CB Carbon Steel	4	11 11 ga.	10	Horizonta	BK Black	
Round Steel	Base with Base Cover			12	D1 1 Way	DT6 Drill template 6	BZ Bronze
	base Cover			14	D1@180 1 Way @ 180	(requires RLAR	WH White
				16	D2 2 Way @ 180	brackets, ordered	DG Dark Grey
				20	D2@90 2 Way @ 90	separately)**	MG Medium Grey
					Vertical		
					T2D6L 2-3/8" OD	N No drilling	
					tenon x 6" length	(for tenons)	

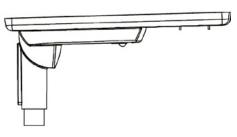
^{**} RLAR brackets are to be ordered as a separate accessory, 1 per luminaire: RLAR-1A-R4@4.9-(finish) (for 4" Poles) RLAR-1A-R5@6-(finish) (for 5" Poles)

Horizontal Mounting (requires RLAR brackets, offered separately)



Warning: Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. See pole spec sheets for the most up to date EPA data and general design warnings.

Vertical mounting

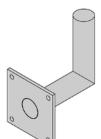


[†] Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.

Wall mount steel brackets

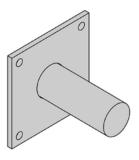
Wall Mount Steel Brackets

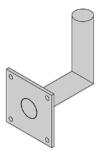
SBRKT-VTN-L1-6-WA-(finish)

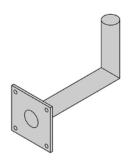


SBRKT-RAH-L1-8.5/8-WA-(finish)

SBRKT-RAH-L1-14/8-WA-(finish)

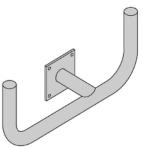






SBRKT-RA-L1-12/13-WA-(finish)

SBRKT-RA-L2-30-WA-(finish)



- Warning: Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. See pole spec sheets for
- the most up to date EPA data and general design warnings.

 † Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.



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