



by Signify

Site & Area

SlenderForm

SFRP LED round post top with comfort optics



Gardco SlenderForm LED post top features a distinct styling to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 8,500 lumens.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

example: SFRP-140L-450-NW-G2-T3-1-UNV-DGY

Prefix	No. of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
SFRP	140L					
SFRP SlenderForm Round Post Top, comfort optics	140L 140 LEDs	450 450mA 650 650mA 1150 1150mA 1675 1675mA 2100 2100mA	WW-G2 Warm White, 3000K, 70CRI, Gen 2 NW-G2 Neutral White, 4000K, 70CRI, Gen 2 CW-G2 Cool White, 5000K, 70CRI, Gen 2 WY-G2 Warm Yellow, 2700K, 80 CRI, Gen 2 ¹ AM-G2 Amber (~590nm), Gen 2 ¹	T3 Mounts to a 3" x 4" Tenon (standard) T2 Mounts to a 2 3/8" x 4" Tenon (must be ordered & shipped as separate accessory)	1 Comfort Type 1 2 Comfort Type 2 3 Comfort Type 3 5 Comfort Type 5	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVU 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing	Photo-sensing	Electrical	Finish	
DD 0-10V External dimming (by others) ² SW Interface module for SiteWise ^{2,4,6} BL Bi-level functionary w/motion sensor ^{2,5,11} DynaDimmer: Automatic Profile Dimming ^{2,5} CS50 Security 50% Dimming, 7 hours CM50 Median 50% Dimming, 8 hours CS30 Security 30% Dimming, 7 hours CM30 Median 30% Dimming, 8 hours	IMRI3 Integral with #3 lens ¹⁰	PCB Photocontrol Button ^{5,7} TLRD5 Twist Lock Receptacle 5 Pin ⁸ TLRD7 Twist Lock Receptacle 7 Pin ⁸ TLRPC Twist Lock Receptacle w/Photocell ^{7,9}	Pole Mount Fusing FP1 Single (120, 277, 347VAC) ⁷ FP2 Double (208, 240, 480VAC) ⁷ FP3 Canadian Double Pull (208, 240, 480VAC) ⁷ 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: RAL7024) CC Custom color (must supply color chip for required factory quote)	

1. Extended lead times apply. Contact factory for details.

2. Not available with other control options.

3. Not available with motion sensor.

4. Not available with photocontrol.

5. Not available in 347 or 480V.

6. Available only in 120 or 277V.

7. Must specify input voltage.

8. Dimming will not be connected to NEMA receptacle if ordering with other control options.

9. Not available in 480V. Order photocell separately with TLRD5/7.

10. Not available with external dimming (DD).

11. Must specify a motion sensor lens.



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SlenderForm Accessories (order separately)

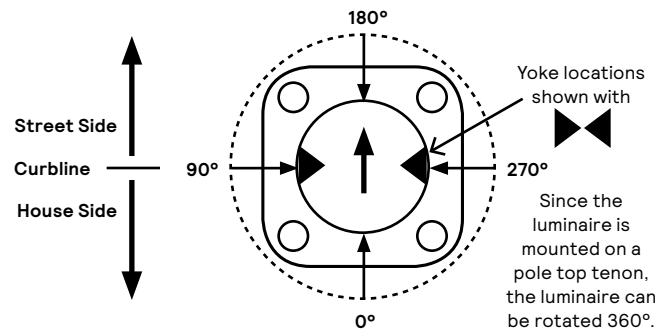
T2 POST TOP TENON Post top tenon adapter for 2-3/8" x 4"

Asymmetric Optical Orientation Information

Standard Optic Position

Aimed Between The Yoke Supports

Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

LED Wattage and Lumen Values for 3000K, 4000K & 5000K fixtures

Ordering Code:	Total LEDs	System current (mA)	Ave. System Watts (W)	1			2			3			5		
				Lumen Output	BUG rating	Efficacy (LPW)	Lumen Output	BUG rating	Efficacy (LPW)	Lumen Output	BUG rating	Efficacy (LPW)	Lumen Output	BUG rating	Efficacy (LPW)
SFRP 3000K															
SFRP-140L-450-WW-G2-x-UNV	140	450	22	1969	B1-U0-G1	90	1833	B1-U0-G1	83	2012	B1-U0-G1	91	2117	B1-U0-G1	96
SFRP-140L-650-WW-G2-x-UNV	140	650	31	2820	B1-U0-G1	91	2626	B1-U0-G1	85	2881	B1-U0-G1	93	3031	B2-U0-G2	98
SFRP-140L-1150-WW-G2-x-UNV	140	1150	51	4622	B2-U0-G2	91	4303	B2-U0-G2	84	4721	B2-U0-G2	93	4968	B3-U0-G3	97
SFRP-140L-1675-WW-G2-x-UNV	140	1675	75	6477	B3-U0-G3	86	6030	B2-U0-G2	80	6616	B2-U0-G2	88	6962	B3-U0-G3	93
SFRP-140L-2100-WW-G2-x-UNV	140	2100	95	7773	B3-U0-G3	82	7237	B3-U0-G3	76	7940	B3-U0-G3	84	8355	B3-U0-G3	88
SFRP 4000K															
SFRP-140L-450-NW-G2-x-UNV	140	450	22	2009	B1-U0-G1	91	1870	B1-U0-G1	85	2052	B1-U0-G1	93	2159	B1-U0-G1	98
SFRP-140L-650-NW-G2-x-UNV	140	650	31	2877	B1-U0-G1	93	2678	B1-U0-G1	86	2939	B1-U0-G1	95	3092	B2-U0-G2	100
SFRP-140L-1150-NW-G2-x-UNV	140	1150	51	4714	B2-U0-G2	92	4389	B2-U0-G2	86	4815	B2-U0-G2	94	5067	B3-U0-G3	99
SFRP-140L-1675-NW-G2-x-UNV	140	1675	75	6607	B3-U0-G3	88	6151	B2-U0-G2	82	6749	B2-U0-G2	90	7101	B3-U0-G3	95
SFRP-140L-2100-NW-G2-x-UNV	140	2100	95	7929	B3-U0-G3	83	7382	B3-U0-G3	78	8099	B3-U0-G3	85	8522	B3-U0-G3	90
SFRP 5000K															
SFRP-140L-450-CW-G2-x-UNV	140	450	22	1966	B1-U0-G1	89	1830	B1-U0-G1	83	2008	B1-U0-G1	91	2113	B1-U0-G1	96
SFRP-140L-650-CW-G2-x-UNV	140	650	31	2816	B1-U0-G1	91	2621	B1-U0-G1	85	2876	B1-U0-G1	93	3026	B2-U0-G2	98
SFRP-140L-1150-CW-G2-x-UNV	140	1150	51	4614	B2-U0-G2	90	4296	B2-U0-G2	84	4713	B2-U0-G2	92	4959	B3-U0-G3	97
SFRP-140L-1675-CW-G2-x-UNV	140	1675	75	6467	B3-U0-G3	86	6020	B2-U0-G2	80	6605	B2-U0-G2	88	6950	B3-U0-G3	93
SFRP-140L-2100-CW-G2-x-UNV	140	2100	95	7761	B3-U0-G3	82	7225	B3-U0-G3	76	7927	B3-U0-G3	83	8341	B3-U0-G3	88

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.

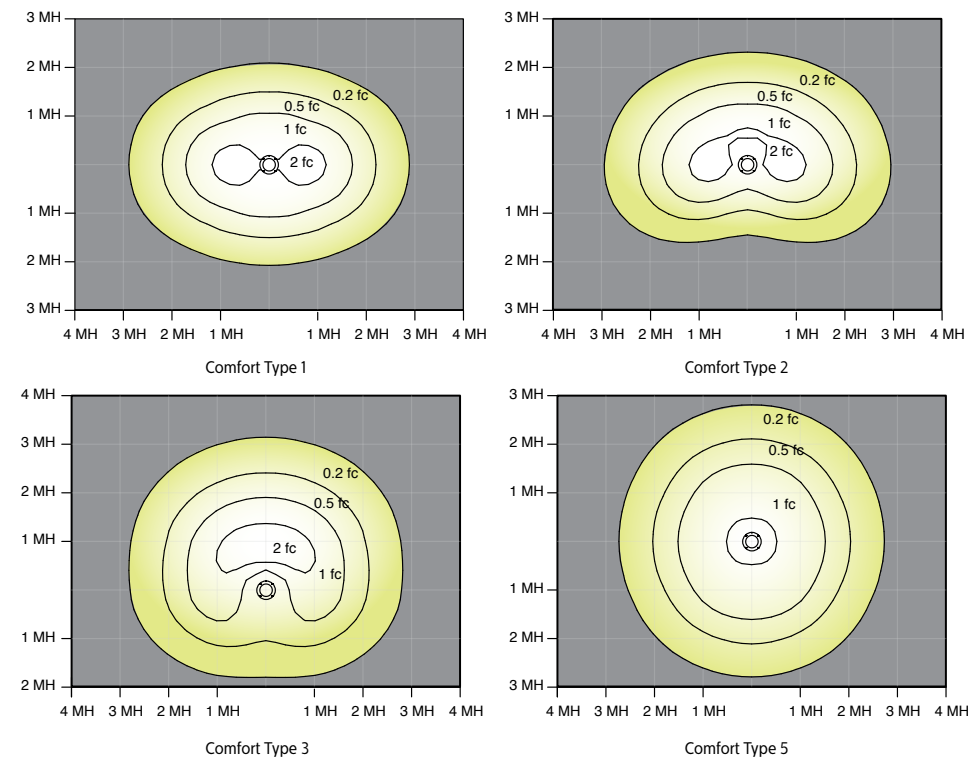
Note: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

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Optical Distributions

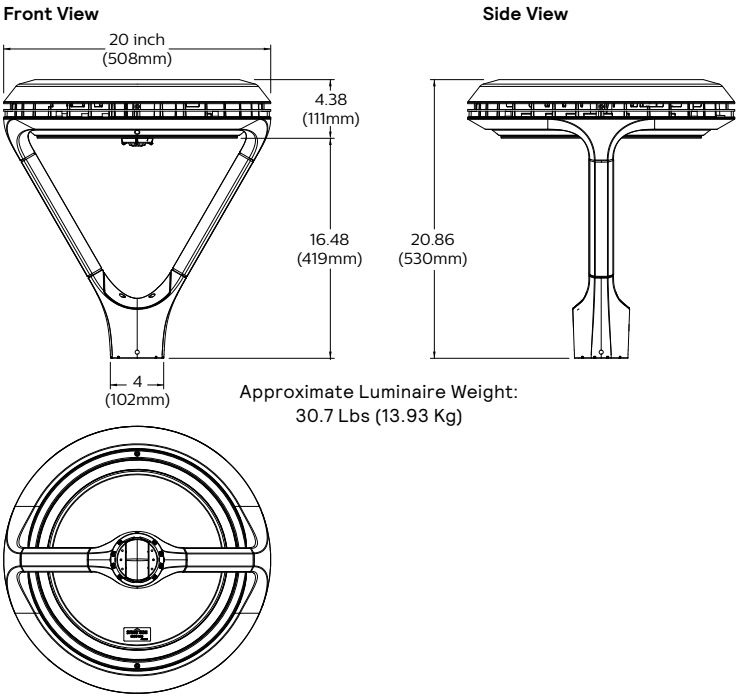
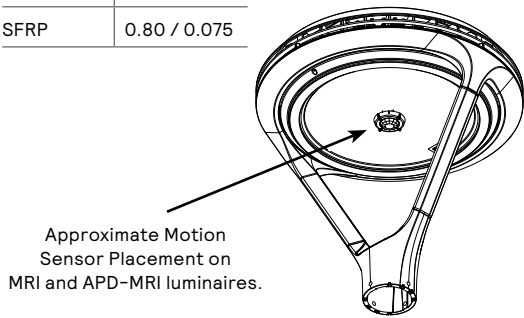
Based on SFRP-140L-2100 at 20' mounting height



Dimensions – Post Top Luminaire (SFRP)

Effective Projected Area ft² / m²

Type	Single
SFRP	0.80 / 0.075



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Specifications

Housing

All die-cast parts are made of die-cast aluminum alloy. Luminaire housing rated to IP66, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 1.5G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration to 1.5G acceleration in three axes, all performed on the same luminaire.

Light engine

Light guide technology provides low-glare, uniform illumination. Composed of 140 LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K +/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K and Amber (Dominant wavelength 589nm, peak wavelength 633nm, and minimum wavelength 486nm) with extended lead times. Contact factory for details.

Energy saving benefits

System efficacy up to 100 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

The advanced LED comfort optical system provides Types 1, 2, 3, and 5. Composed of high performance UV-stabilized optical grade lens with micro-optics to achieve desired distribution optimized to get a exceptional lighting uniformity. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

SlenderForm Post Top mounts standard to a 3" x 4" Tenon, but can also be mounted to a 2-3/8" x 4" Tenon if a separate sleeve is ordered as an accessory.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through the yoke of the luminaire (for secondary dimming controls by others). Cannot be used with other control options.

SiteWise (SW): SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using Philips patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Cannot be used with other control options or photocell options. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems. Complete information on the control system can be found on the SiteWise website at philips.com/sitewise.

Automatic Profile Dimming (CS/CM/CE/CA): 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)

Cannot be used with other control options.

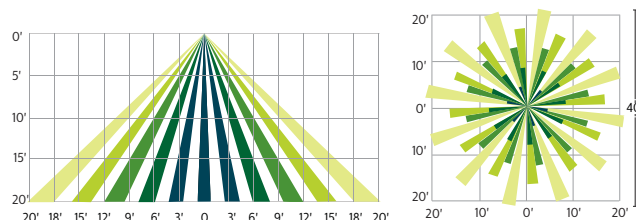
Motion response options

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. P50-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 (SW-IMRI3): When used in combination with other controls (Automatic Dimming Profile and SiteWise), 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 re-programmed via the controller.

Infrared Motion Response Lenses (IMRI3): Infrared Motion Response Integral module is available lens #3 (IMRI3), which is designed for mounting heights up to 20' with a 40' diameter coverage area. See chart for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



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Specifications (continued)

Electrical

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 Philips or third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified.

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.

Surge protection (SP1/SP2): 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.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most SlenderForm SFRP comfort configurations are qualified under Standard DesignLights Consortium® category. Consult DLC Qualified Products list for more details.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Warranty

SlenderForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](https://www.signify.com/warranties) for complete details and exclusions.

Predicted Lumen Depreciation Data

Ambient Temperature	Driver mA	Calculated L ₇₀ ^{1,2}	L ₇₀ per TM-21 ^{2,3}	Lumen Maintenance %
25°C	Up to 2100 mA	>100,000 hrs	>60,000 hrs	84%

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 TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

