



PRODUCT SPECIFICATION SHEET

INTEGRATED SOLAR LIGHT WITH FENCE-MOUNT POLE & LOWERING HINGE

MANUFACTURER PART NUMBER	REVISION	DATE	COUNTRY OF ORIGIN
SF-FEN-SH10, SF-SCP-SH10, SF-SP1-SH10, SF-SP2-SH10	Rev. 01	September 2025	United States

1. PRODUCT DESCRIPTION

A complete fence-mounted solar lighting assembly comprising one SFSL-180-50 integrated solar LED luminaire, a 10 ft two-section 6061 structural aluminum pipe pole, lowering hinge, fence-mount bracket, and selectable mounting hardware for wood posts or pipe posts. The pole is supplied as two 5 ft pipe sections, each threaded at one end. The lowering hinge allows the pole/light assembly to be lowered for service, subject to installation instructions and safe operating procedures.

2. PRODUCT IDENTIFICATION

SPECIFICATION	INFORMATION
Product Family	Area Lighting
Product Type	Integrated solar LED luminaire with 10 ft lowering pole assembly
CSI MasterFormat	26 56 13, 26 55 53, 26 56 00, 26 56 19, 25 56 23, 25 56 26, 26 56 33, 01 51 26
NAICS	335132
UNSPSC	39111619, 39112002, 69111600,
Primary Applications	Fence lines, walkways, perimeter lighting, yards, access areas, security lighting
Manufacturing Location	Texas, USA

3. TECHNICAL SPECIFICATIONS

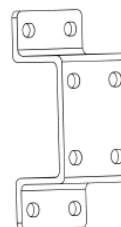
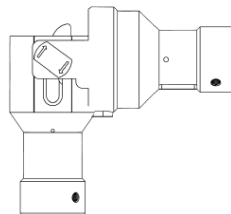
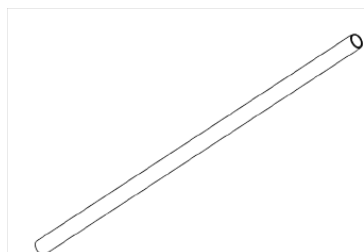
PARAMETER	REQUIREMENT / VALUE
Assembly / Suggested Part Number	—
Integrated Luminaire	SFSL-180-50; 1 fixture
Solar Panel	50 W monocrystalline panel
LED Output	5,000 lm; Bridgelux SMD3030



CCT / CRI	6500 K; Ra >70
Beam Angle	145° × 70°
Battery	LiFePO4; 35 Ah; DOD >2000 (per light specification sheet)
Control	Optical + intelligent timing control; proximity sensor and remote control per product configuration
Operating Mode	Default schedule listed as 1/3/6/1H; 100%/70%/50%/30% in supplied sheet; confirm exact control sequence against current light manual
Charging / Runtime	6–7 hours charging; 12+ hours/day; 3–5 day backup, per supplied light specification
Enclosure	NEMA 4X / IP65
Operating Temperature	13–150°F (-25 to +65°C), per supplied light specification
Luminaire Dimensions / Weight	26.5 × 12.75 × 7.5 in.; 15 lb
Pole Assembly	10 ft overall; two 5 ft pipe sections, each threaded at one end, 1x fully threaded 1.5" AL coupling
Pole Material	6061 structural aluminum pipe
Lowering Hinge	1 included
Fence-Mount Bracket	1 included
Mounting Hardware – Wood Post PN: SF-FEN-SH10	For 4 in. or larger OD square or round wood post
Mounting Hardware – Pipe Post Option 1 – PN: SF-SCP-SH10	For 1.25–1.5 in. OD pipe post
Mounting Hardware – Pipe Post Option 2 – PN: SF-SP1-SH10	For 1.5 in. OD to 2-3/8 in. OD pipe post
Mounting Hardware – Pipe Post Option 3 – PN: SF-SP2-SH10	For 2-3/8 in. OD to 2-7/8 in. OD pipe post
Wind Rating	120 mph – The pole is rated for wind speeds up to 120 mph when installed in accordance with the manufacturer's installation instructions and securely mounted to a fence post or support structure rated for wind speeds of 120 mph or greater. The supporting structure, including its foundation, concrete embedment depth, and anchoring, must be designed and installed to withstand the applicable wind loads.
Luminaire Mounting	1.5 in. NPT
Warranty	5-year manufacturer warranty for integrated solar light; pole/hinge/bracket per applicable SF Industries terms

4. ENGINEERING DRAWING / DIMENSIONS

2x 5ft pipe threaded one end 1x Full Thread AL Coupling 1x Lowering Hinge 1x Fence Mount Bracket





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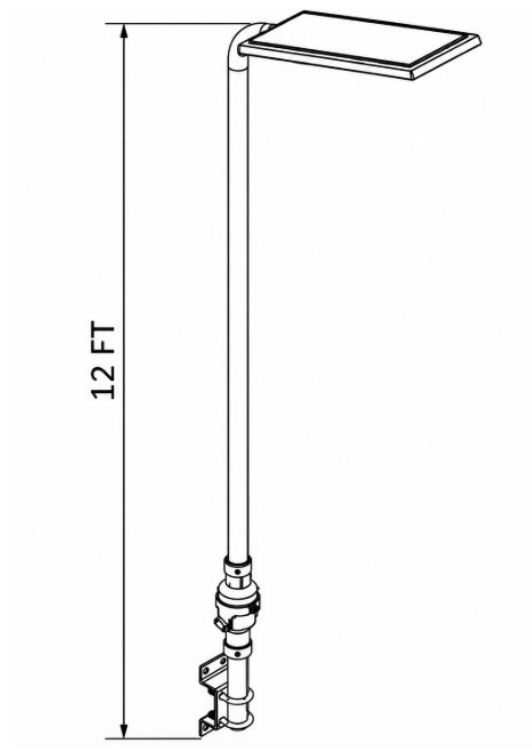
PRECISION METAL FABRICATION • OEM MANUFACTURING

CAGE Code:23ZN0
UEI: TCN3M1MU18R7

1x 12" pipe



1x Mounting Hardware per pipe mounting application choice



ASSEMBLY OVERVIEW: Integrated solar light (SFSL-180-50) mounted to a 10 ft aluminum pole (2 × 5 ft threaded sections), with lowering hinge and fence-mount bracket. Mounting hardware is selected for the supporting post type and outside diameter. Refer to the approved installation instructions and assembly drawing for connection details and dimensions.



5. STANDARDS, QUALITY & COMPLIANCE

- Luminaire: UL 8801 compliant; NEMA 4X / IP65 enclosure; RoHS certified, per supplied light specification sheet. Pole: 6061 structural aluminum pipe, as specified by the product configuration.
- SF Industries manufacturing standards: ISO 9001:2015 compliant.
- Inspect pole sections, threads, lowering hinge, fence bracket, fasteners, and luminaire before installation. Install and operate the lowering hinge only in accordance with the supplied installation instructions.
- Certificate of Conformance available separately, upon request.

6. INSTALLATION & APPLICATION

Mount the fence bracket to the supporting wood or pipe post using the hardware option specified for the post size. Assemble the two 5 ft threaded 6061 aluminum pipe sections to form the 10 ft pole, install the lowering hinge and integrated solar light, and secure all connections per the approved installation instructions. Pole wind rating is up to 120 mph when installed per the installation directions; confirm site-specific suitability and required mounting hardware. The pole is rated for wind speeds up to 120 mph when installed in accordance with the manufacturer's installation instructions and securely mounted to a fence post or support structure rated for wind speeds of 120 mph or greater. The supporting structure, including its foundation, concrete embedment depth, and anchoring, must be designed and installed to withstand the applicable wind loads. Use only specified fasteners and torque values from the installation instructions; do not infer values.

RECOMMENDED TORQUE SPECIFICATIONS FOR ALL BOLTS/NUTS

75ft-lbs



SF 180 Fence
Mount Installation I



TECHNICAL & PROCUREMENT INFORMATION

INTEGRATED SOLAR LIGHT FENCE-MOUNT POLE ASSEMBLY • SFSL-FM-10

7. CONFIGURATIONS & OPTIONS

OPTION	STANDARD	CUSTOM / AVAILABLE
Pole Length	10 ft overall	Two 5 ft sections; configuration as specified
Pole Material	6061 structural aluminum pipe	Other materials only if specified/approved
Lowering Hinge	1 included	Replacement/service parts per availability
Fence-Mount Bracket	1 included	Project-specific bracket options subject to review
Wood Post Hardware	4 in.+ OD square or round post	Select for actual post dimensions
Pipe Post Hardware	1.25–2 in. OD	Select matching hardware option
Pipe Post Hardware	2–2-3/8 in. OD	Select matching hardware option
Pipe Post Hardware	2-3/8–2-7/8 in. OD	Select matching hardware option
Integrated Light	SFSL-180-50	No alternate luminaire unless specified

8. MANUFACTURING & QUALITY

- Manufacturing and assembly: product-specific fabrication and assembly controls.
- Aluminum pole: 6061 structural aluminum pipe, supplied in two 5 ft sections.
- Mounting system: lowering hinge, fence-mount bracket, and post-specific mounting hardware.
- Inspection: verify pole section length, threads, hinge function, bracket fit, and hardware selection.
- Material documentation and traceability: available as specified by purchase order/project requirements.

9. TECHNICAL DOCUMENTATION

DOCUMENT	AVAILABILITY
Product Data Sheet	Integrated Solar Light SFSL-180-50 specification sheet
Engineering Drawing	Available separately; confirm assembly drawing
Installation Instructions	Required; install pole, hinge, bracket, and post hardware per instructions
Certificate of Conformance	Available separately, upon request
Material Certifications	Available upon request / as specified
Warranty	5-year luminaire warranty; remaining assembly per SF Industries terms



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10. ORDERING INFORMATION

FIELD	INFORMATION
Manufacturer	SF Industries USA
Manufacturer Part Number	MULTIPLE - see section 3
Unit of Measure	EA / complete assembly
Package Quantity	1 assembly
Standard Lead Time	Confirm at time of order
Warranty	5-year integrated light warranty; assembly components per SF Industries terms
Country of Origin	United States (confirm for complete assembly, including all components)