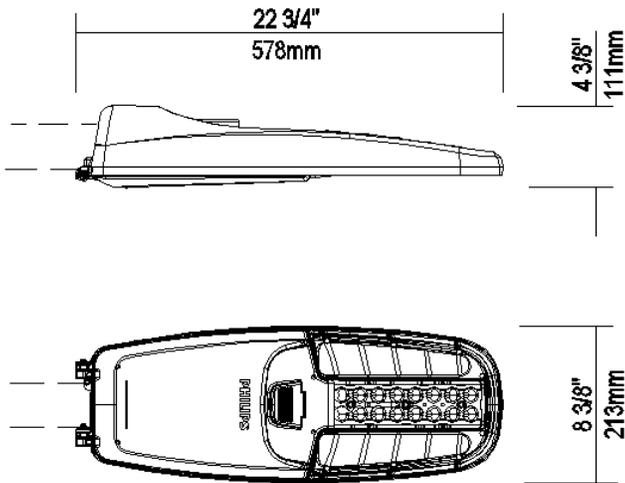


## Niagara Falls Solar (82505)

3DLumDrawing



EPA: 0.52 sq ft / weight: 9.4 lb (4.3 kg)  
Note: 3D image may not represent color or option selected.  
Logos above include link, click to access.

Qty	3	Luminaire	[RFS-010]-35W16LED4K-T-R2M-NO-GY3
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### Description of Components:

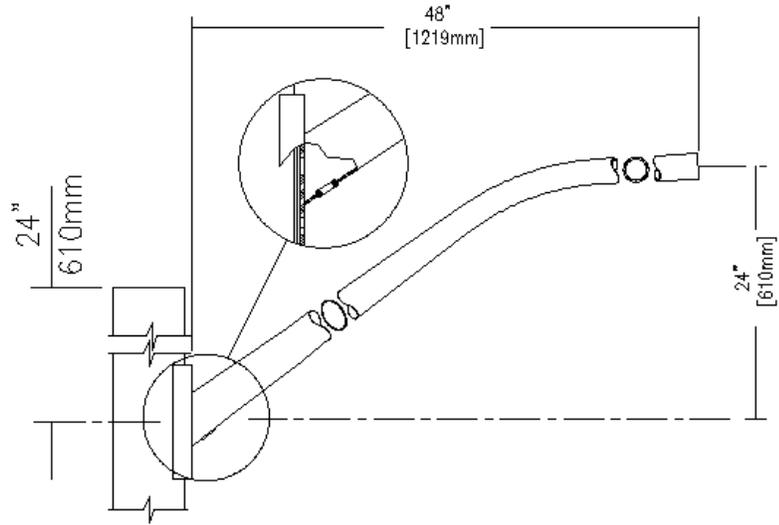
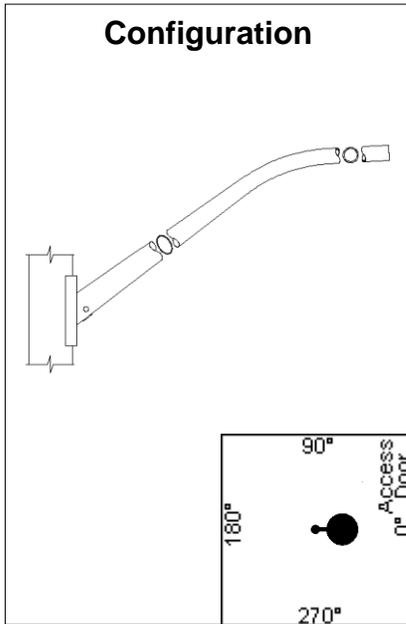
**Housing:** Made of a low copper die cast Aluminum alloy (A360), 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 5 1/2" (140mm) minimum long tenon. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of +/- 5° tilt in 2.5° increments. Includes integral bubble level standard (always included). A quick release, tool less entry, single latch, hinged, removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 13" (330mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders and an ANSI label as per C136.15-2015 to identify wattage and source (both included in box).

**Heat Sink:** Built in the housing, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimising their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F.

**LED Module:** Composed of 16 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K), CRI 70 Min. 75 Typical.

**Optical System:** (R2M), IES type II medium (asymmetrical). Composed of high-performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance.0% uplight and U0 per IESNA TM-15.

**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, Philips System Reliability Tool. Advance data and Lumileds 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.



Qty	3	Bracket	[ELW-4-002]-1A-GY3
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**Description of Components:**

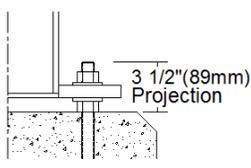
**Arm:** Spun from a 4" (102mm) aluminum round tube, wall thickness of 0.125" (3mm), tapered and ovalized, ending in a straight 2 3/8" (60mm) diameter tenon, 6" (152mm) long.

**Mounting Plate:** Universal aluminum mounting plate to adapt on square or round poles, wood or metal.

**Bracket Properties (Weight and EPA):** 8 lbs (3.6 kg), 1.46 ft<sup>2</sup>

# Niagara Falls Solar (82505)

**Base & Bolts Information**



3 1/2" (89mm) Projection

**Comes with** 4 steel anchor bolts, 1" X 33" + 3" J Type Bolts, 8 nuts and 8 washers. Important: Do not obstruct space between anchor plate and concrete base.

**Anchor Plate**

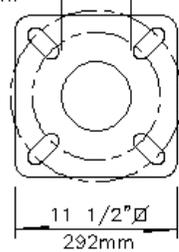
Free opening

4 1/2"  $\varnothing$   
114mm

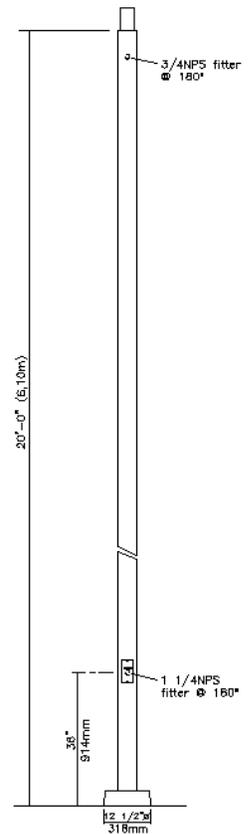
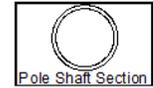
- Bolt Circle:  
12 1/2" (318mm)

- Thickness:  
3/4" (19mm)

- NOTE:  
Bolt Circle Allowed:  
8" to 12 1/2"  
203mm to 318mm



11 1/2"  $\varnothing$   
292mm



Qty 3 Pole [SPR5V-040]-20-GY3

## Description of Components:

**Pole Shaft:** Shall be made from a 5" (127mm) round high tensile carbon steel tubing, having a 0.250" (6.4mm) wall thickness, welded to both the bottom and top of the anchor plate. **Complete with a 3/4 NPS female fitter located at 7" from the top of the pole, 180° and a second 1 1/4 NPS male fitter located at 36" from the bottom of the pole, 180°.**

**Maintenance Opening:** The pole shall have a 2" x 4 1/2" (51mm x 114mm) maintenance opening centered **36" (914mm)** over grade, complete with a weatherproof aluminum cover and a copper ground lug.

**Base Cover:** Two piece square base cover made from formed aluminum, mechanically fastened with stainless steel screws.

**Note:** Shall come with a 3.5" (89mm) O.D. by 6" (152mm) long tenon, welded to pole shaft, to receive post top solar panels mounting, by SolarOne.

**IMPORTANT:** Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.

**Pole Weight:** 251 lbs (114.1 kg)

Miscellaneous
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### Description of Components:

**Wiring:** Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding the bracket.

**Hardware:** All exposed screws shall be complete with Ceramic primer-seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

**Anchor Bolts:** Anchor bolts made of ASTM F1554 grade 55 steel having a minimum yield strength of 55000 psi. Nuts made of ASTM A563 grade A steel or better. The thread fit is ANSI class 2B regardless of bolt diameter. Washers are made of ASTM grade F-844 or better steel. All galvanized parts are hot dip galvanized per ACNOR G-164 minimum.

**Finish:** Color to be **medium grey (GY3)** and in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with  $\pm 1$  mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 3000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

**LED products manufacturing standard:** The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

**Vibration Resistance:** The RFS meets the **ANSI C136.31 2010**, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications (Tested for 3G over 100 000 cycles).

The RFS meets the **California Test 611, Testing durability of mast arm mounted luminaires**, specifications (a 2 000 000 cycles test).

**Mechanical resistance:** This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessories and foundation under the given site conditions and intended usage. The addition of any other item to the pole may dramatically impact the wind load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Lumec assumes no responsibility for such complete analysis or product selection. Failure to insure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

**Service Tag:** Each individual luminaire is uniquely identifiable, thanks to the Philips Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [philips.com/servicetag](http://philips.com/servicetag)

**Warranty:** Luminaire comes with a warranty of 10 years on product and finish.

**Certifications and Compliance:** Luminaire meets DOE and MSSLC Model Specification for LED Roadway Luminaires. Small RoadFocus luminaires are DesignLights Consortium qualified. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

**Web site information details:** Click on any specific information details you need: / [cULus Certification](#) / [CSA Pole Certification](#) / [Warranty](#)