



A19-Style 3D PedLED® Solid-State Light Bulbs

TRF-A19-xxx-02



Beacon-Bright / Signal-Bright Intensity — E26 Edison 26mm Screw-in Base — Waterclear

Direct Incandescent Replacement — Up to 90% Energy Savings

FEATURES

- **Warranty:** 3 Years
- **Easy Installation:** Using Existing Socket, Lens, Reflector
- **Long Lifespan:** Colored LEDs Last up to 100,000 Hours of Continuous Operation. White LED Lumen Maintenance Greater than 70% at 35,000 Hours of Operation (*Rated average life based on engineering testing and probability analysis*)
- **Solid-State:** High-Shock & High-Vibration Resistant; Electrical On/Off Shock Resistance
- **Ambient Operating Temp. Range:** ~-22°F to ~+122°F [\sim -30°C to \sim +50°C]
- **Lightweight:** 2.6 oz / 73.7g
- **Base:** Nickel-Plated Brass
- **Eco-Friendly:** ROHS Compliant

APPLICATIONS

- Toll Booths
- Receiving Docks
- Beacon Lighting

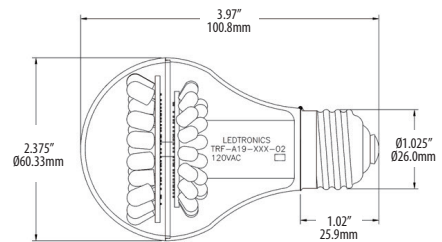


[Left] Red boundary beacons for Torrance Airport in California, mounted atop perimeter luminaire poles; [Below] Blue accent lighting atop poles on Chicago's State Street



BENEFITS

- Reduced Power Consumption
- Reduced Maintenance
- Reduced Warehouse Stock
- No Retrofitting Kits Required
- **No Throwaway Parts:** Directly Replaces Type-2 Screw-in Incandescent Bulbs



White LED technology is patent protected in the United States. LEDtronics white LED products are covered under these patents.

CUSTOM OPTIONS [For qualified applications & large-quantity OEM orders]

- **Industry-Standard Bases**
- **Other Colors:** Amber, Orange, Bi-Color
- **Special Voltages:** 12/14 Volt Versions Available for Alternate or Renewable-Energy Sources – Solar & Wind
- **Flashing/Strobe Circuit**
- **Other LED Beam Angles** for Different Effects

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NUMBER	INPUT VOLTAGE	INPUT CURRENT	ENERGY USED	TOTAL LUMENS	LIGHT OUTPUT	COLOR TEMP.	λp	LED EMITTING COLOR
TRF-A19-SIW-02	120VAC	0.024 A	1.5W	164 lm	9.0 cd/LED	2800K~3200K	N/A	Warm White
TRF-A19-SIW-02W	120VAC	0.024 A	1.5W	162 lm	9.0 cd/LED	2800K~3200K	N/A	Warm White
TRF-A19-TPW-02	120VAC	0.024 A	1.5W	189 lm	10.3 cd/LED	4800K~5200K	N/A	True White
TRF-A19-OER-02	120VAC	0.024 A	1.9W	114 lm	4.0 cd/LED	N/A	633nm	Super Red
TRF-A19-OUY-02	120VAC	0.024 A	1.9W	101 lm	4.0 cd/LED	N/A	593nm	Yellow
TRF-A19-OBG-02	120VAC	0.024 A	1.8W	178 lm	5.7 cd/LED	N/A	503nm	Blue Green
TRF-A19-OPB-02	120VAC	0.024 A	1.8W	55 lm	1.8 cd/LED	N/A	463nm	Blue

LEDTRONICS®
Creating the Future of Light Since 1983™

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LOG # 224 / Rev 04 - 2015

Check LEDTRONICS.COM for latest data. Printed material may be outdated.

TRF-A19-SIW-02

Luminaire Photometric Report

Filename: TRF-A19-SIW-02
 Manufacturer: LEDTRONICS -
 Luminaire: CLEAR LENS, 120VAC, 1.5W
 Luminaire Cat: TRF-A19-SIW-02
 Lamp: LUMEN RATINGS: 163.9Lms.
 Lamp Output: 1 lamp(s), rated lamp lumens: 163.9
 Max Candela: 82.1 at Horizontal: 0, Vertical: 0
 Luminous Opening: Point
 Test: 3-26-10

Zonal Lumen Summary

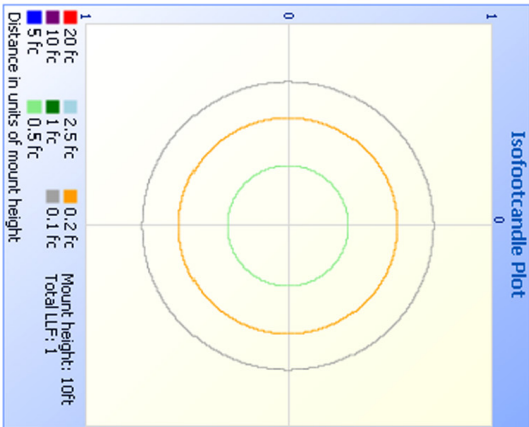
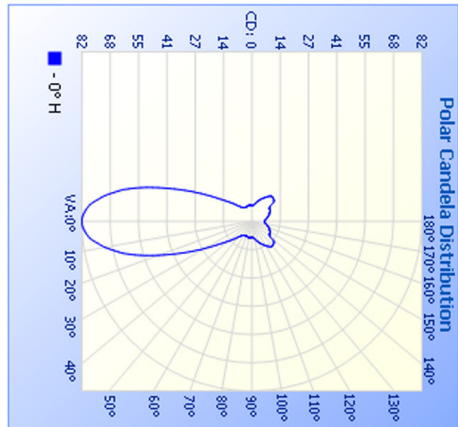
Zone	Lumens	% Lamp	% Luminaire
0-30	40.6	24.8%	24.8%
0-40	52.8	32.2%	32.2%
0-60	69.8	42.6%	42.6%
60-90	24.3	14.8%	14.8%
0-90	94.0	57.4%	57.4%
90-180	69.9	42.7%	42.6%
0-180	163.9	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	29.56 fc
3.3ft	7.39 fc
5.0ft	3.28 fc
6.7ft	1.85 fc
8.3ft	1.18 fc
10.0ft	0.82 fc

Beam Spread: 45.3°



TRF-A19-SIW-02W

Luminaire Photometric Report

Filename: TRF-A19-SIW-02W
 Manufacturer: LEDTRONICS -
 Luminaire: CLEAR LENS, 120VAC, 1.5W
 Luminaire Cat: TRF-A19-SIW-02W
 Lamp: LUMEN RATINGS: 161.5Lms.
 Lamp Output: 1 lamp(s), rated lamp lumens: 161.5
 Max Candela: 26.3 at Horizontal: 0, Vertical: 0
 Luminous Opening: Point
 Test: 3-26-10

Zonal Lumen Summary

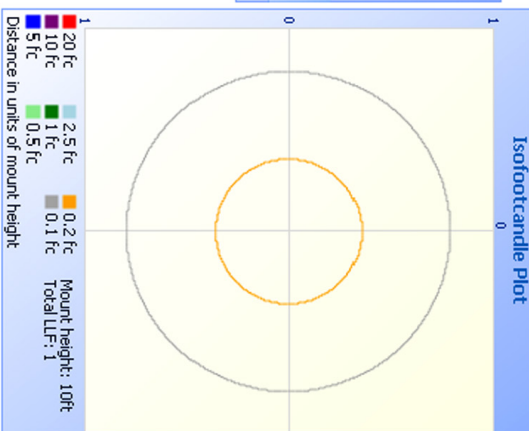
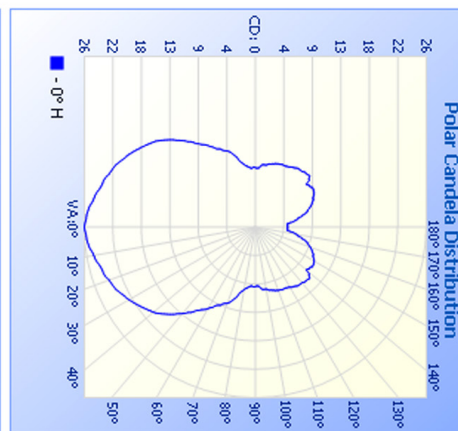
Zone	Lumens	% Lamp	% Luminaire
0-30	20.1	12.5%	12.5%
0-40	33.5	20.8%	20.8%
0-60	62.4	38.6%	38.6%
60-90	35.2	21.8%	21.8%
0-90	97.6	60.4%	60.4%
90-180	63.9	39.6%	39.6%
0-180	161.5	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	9.47 fc
3.3ft	2.37 fc
5.0ft	1.05 fc
6.7ft	0.59 fc
8.3ft	0.38 fc
10.0ft	0.28 fc

Beam Spread: 131.4°



CAUTION When Installing Lamps in Potentially Corrosive Outdoor Environments

LEDtronics suggests that a silicone moisture-barrier sealant be used to protect the metal-threaded base of the LED bulb. Sealant is highly recommended for all outdoor-environment LED bulb installations to prevent water and/or moisture incursion that can lead

to premature degradation of the bulb base and eventual bulb failure. This is especially recommended for LED bulb installations near softwater bodies.

Dow Corning Molykote® 111 Valve Lubricant and Sealant is a high-temperature, moisture-resistant, silicone grease. If liberally applied to the clean surface of the lamp socket and the base of the lamp itself, it will provide moisture and corrosion resistance.