



PAR36 LED Spotlights & Floodlights / Wire Leads

PAR36-xxW-120Ax-002



Drop-In Incandescent Replacement — 120VAC — Only 3.6 Watts — Up to 90% Energy Savings

Emergency Egress Lighting – Headlights – Markers – Turn Signals – Spotlights – Floodlights

FEATURES

- **Lamp Warranty:** 3 Years
- **Easy Installation:** Drop-in Replacement for 120VAC PAR36 Incandescent Lamps
- **Long Lifespan:** White LED Lumen Maintenance Greater than 70% at 35,000 Hours of Operation *(Rated average life based on engineering testing and probability analysis)*
- **Housing:** Black Polycarbonate w/Clear Polycarbonate Lens
- **Protection Rating:** Water Resistant, Dust Resistant
- **Ambient Operating Temp.:** ~-4°F to ~+104°F [~-20°C to ~+40°C]
- **LEDs:** 120 Dense-Cluster LEDs
- **Solid State:** High-Shock & High-Vibration Resistant
- **Cool Operation:** Generates Only a Negligible Amount of Heat



CAUTION:
Suitable for use in open luminaires (fixtures)

APPLICATIONS

- Architectural Accent Lighting & Wall Washing
- Low-Heat Medical Spot Lighting & General-Use Spot Lamps
- Battery-Operated Emergency Egress Lighting Systems
- Landscape Lighting

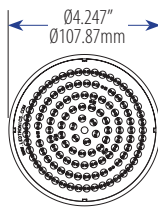
CUSTOM OPTIONS

[For qualified applications & large-quantity OEM orders]

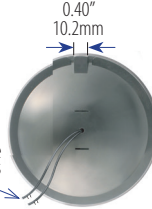
- **Other Voltages Available** – 6VDC, 12/14VDC, 24⁴⁸VDC, 240VAC
- **Other LED Colors Available**
- Available in **Ultraviolet** LEDs in 395nm or 405nm
- Available in **Infrared** LEDs in 730nm, 850nm, 880nm, 940nm
- **Other LED Beam Angles** for Different Effects
- Also with **Screw Terminals**

BENEFITS

- **Major Energy Savings:** Over 90% Compared to Incandescents and Halogens
- **Low Maintenance:** Lowers Costs by Reducing Re-lamp Frequency
- **Eco-Friendly:** No Mercury Content, No Lead; Recyclable
- **No Hazardous Emissions:** No UV or IR Radiation
- **Even Lighting:** High Intensity / No Halation
- **Reduces Light Pollution:** Enhances Night Vision, "Dark Skies" Initiative Friendly



Weight:
~0.30 lb
~136 g



Ideal for Use with Alternate or Renewable Energy Resources – Solar & Wind Power



LEDtronic PAR36 floodlights mounted in a water-tight, under-water approved fixture illuminate the fountain in Daley Plaza, one of Chicago's architectural highlights

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

SPECIFICATIONS – Wire Lead Terminals

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NUMBER	INPUT VOLTAGE	ENERGY USED	INPUT CURRENT	TOTAL LUMENS	MAXIMUM CANDELA	EFFICACY	CRI	COLOR TEMPERATURE	EMITTED COLOR	VIEWING ANGLE *
WARM WHITE – Spotlight & Floodlight										<small>(*Full Beam Width @ 50% Intensity)</small>
PAR36-SIW-120AN-002	120VAC	3.6 Watts	0.060A	206 lm	486 cd	59 lm/W	66	2800K~3200K	Warm White	23°
PAR36-SIW-120AM-002	120VAC	3.6 Watts	0.060A	210 lm	411 cd	59 lm/W	66	2800K~3200K	Warm White	33°
TRUE WHITE – Spotlight & Floodlight										
PAR36-TPW-120AN-002	120VAC	3.6 Watts	0.060A	243 lm	586 cd	68 lm/W	75	4800K~5200K	True White	23°±3°
PAR36-TPW-120AM-002	120VAC	3.6 Watts	0.060A	221 lm	465 cd	69 lm/W	75	4800K~5200K	True White	33°±3°

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Creating the Future of Light Since 1983™

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PAR36-SIW-120AM-002

Luminaire Photometric Report

Filename: PAR36-SIW-120AM-002
Manufacturer: LEDTRONICS -
Luminaire: WITH CLEAR LENS, 120VAC, 3.6W
Luminaire Cat: PAR36-SIW-120AM-002
Lamp: LUMEN RATING: 210.5Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 210.5
Max Candela: 411.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 7-27-09

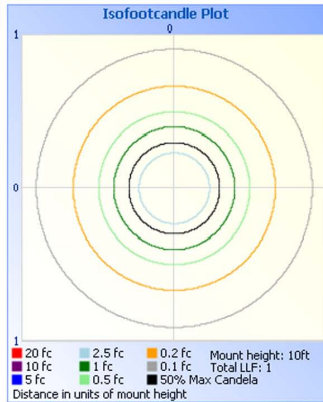
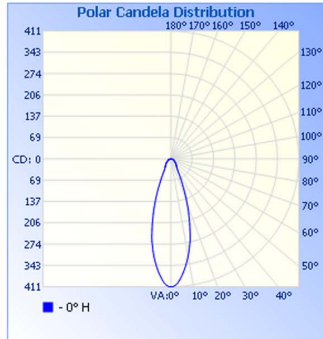
Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	66.9%	140.9	63.1	63.1
Beam (50%):	37.1%	78.2	33.4	33.4
Total:	100%	210.5		

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	147.96 fc
3.3ft	36.99 fc
5.0ft	16.44 fc
6.7ft	9.25 fc
8.3ft	5.92 fc
10.0ft	4.11 fc

■ Beam Spread: 33.4°



PAR36-TPW-120AM-002

Luminaire Photometric Report

Filename: PAR36-TPW-120AM-002
Manufacturer: LEDTRONICS -
Luminaire: WITH CLEAR LENS, 120VAC, 3.2W
Luminaire Cat: PAR36-TPW-120AM-002
Lamp: LUMEN RATING: 221.3Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 221.3
Max Candela: 465.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 7-9-09

Zonal Lumen Summary

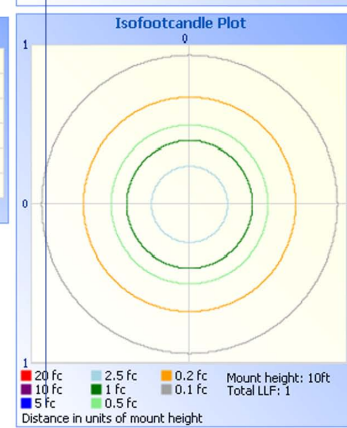
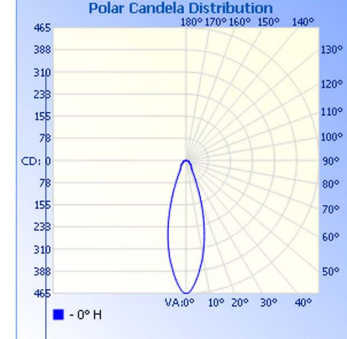
Zone	Lumens	% Lamp	% Luminaire
0-30	143.3	64.8%	64.8%
0-40	164.9	74.5%	74.5%
0-60	198.2	89.6%	89.6%
60-90	23.1	10.4%	10.4%
0-90	221.3	100%	100%
0-180	221.3	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	167.40 fc
3.3ft	41.85 fc
5.0ft	18.60 fc
6.7ft	10.46 fc
8.3ft	6.70 fc
10.0ft	4.65 fc

■ Beam Spread: 31.3°



PAR36-SIW-120AN-002

Luminaire Photometric Report

Filename: PAR36-SIW-120AN-002
Manufacturer: LEDTRONICS -
Luminaire: WITH CLEAR LENS, 120VAC, 3.5W
Luminaire Cat: PAR36-SIW-120AN-002
Lamp: LUMEN RATING: 205.7Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 205.7
Max Candela: 486.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 7-27-09

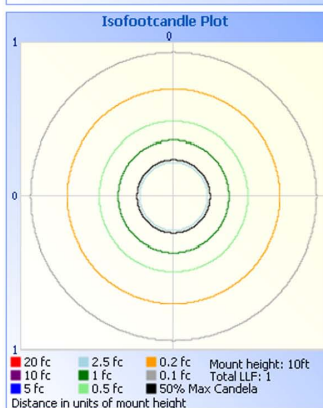
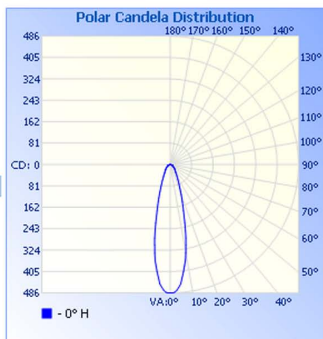
Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	64.3%	132.3	61.3	61.3
Beam (50%):	30.1%	61.9	27	26.9
Total:	100%	205.7		

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	174.96 fc
3.3ft	43.74 fc
5.0ft	19.44 fc
6.7ft	10.94 fc
8.3ft	7.00 fc
10.0ft	4.86 fc

■ Vert. Spread: 26.9° ■ Horiz. Spread: 27.0°



PAR36-TPW-120AN-002

Luminaire Photometric Report

Filename: PAR36-TPW-120AN-002
Manufacturer: LEDTRONICS -
Luminaire: WITH CLEAR LENS, 120VAC, 3.8W
Luminaire Cat: PAR36-TPW-120AN-002
Lamp: LUMEN RATING: 243.0Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 243
Max Candela: 586.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 7-9-09

Zonal Lumen Summary

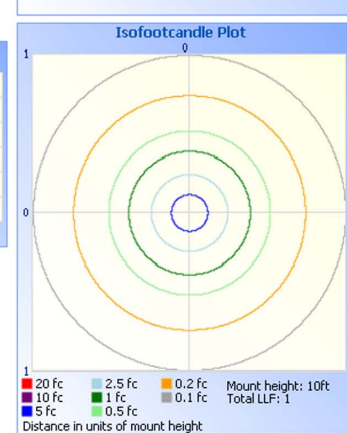
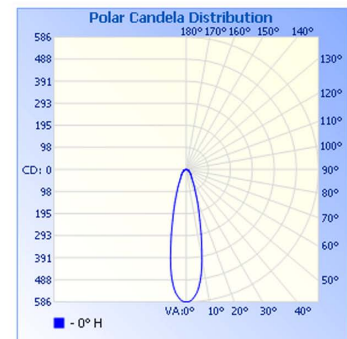
Zone	Lumens	% Lamp	% Luminaire
0-30	153.9	63.3%	63.3%
0-40	180.3	74.2%	74.2%
0-60	218.3	89.8%	89.9%
60-90	24.6	10.1%	10.1%
0-90	243.0	100%	100%
0-180	243.0	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	210.96 fc
3.3ft	52.74 fc
5.0ft	23.44 fc
6.7ft	13.19 fc
8.3ft	8.44 fc
10.0ft	5.86 fc

■ Beam Spread: 26.1°



PAR36-TPW-120AN-002
and
PAR36-TPW-014N-002
have similar photometrics