



PAR36 LED Spotlights & Floodlights / Wire Leads

PAR36-xxW-120Ax-002



Drop-In Incandescent Replacement — 14VDC or 120VAC — Only 3 to 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 12/14VDC and 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*)
- **LEDs:** 120 Dense-Cluster LEDs
- **Low Power Draw:** Smaller Wattage Puts Less Load on the Electrical System
- **Cool Operation:** Generates Only a Negligible Amount of Heat
- **Even Lighting:** High Intensity / No Halation

CAUTION: Suitable for use in open luminaires (fixtures)

COOL & WARM WHITE



APPLICATIONS

- 12/14-Volt Version Has Applications as Headlights for Forklifts, Industrial Vehicles, Golf Carts
- Architectural Accent Lighting and Wall Washing
- Low-Heat Medical Spot Lighting and General-Use Spot Lamps
- Battery-Operated Emergency Egress Lighting Systems
- Landscape Lighting

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

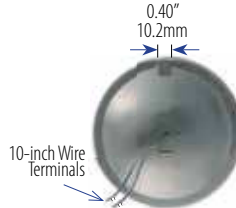
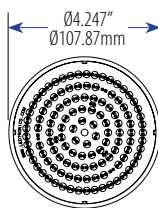
CUSTOM OPTIONS

[For qualified applications & large-quantity OEM orders]

- **Other Voltages** – 6VDC, 24 $\frac{1}{2}$ VDC, 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

- **Solid State:** High-Shock & High-Vibration Resistant
- **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
- **Reduces Light Pollution:** Enhances Night Vision, "Dark Skies" Initiative Friendly



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

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

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°
TRUE WHITE – Spotlight										
PAR36-TPW-014N-002	14VDC	5.6 Watts	0.402A	432 lm	1153 cd	77 lm/W	75	4800K~5200K	True White	23°±3°

LEDTRONICS®
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, 120WAC, 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

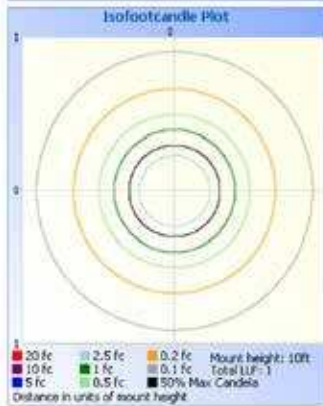
Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	86.9%	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, 120WAC, 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

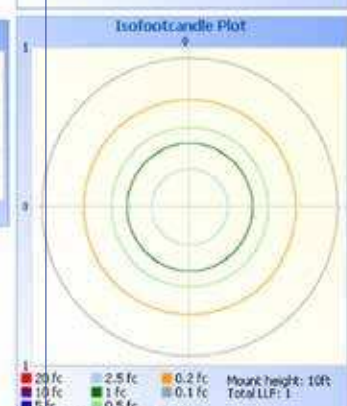
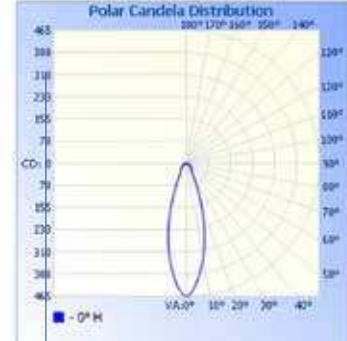
Zone	Lumens	% Lamp	% Luminaire
0-30	143.3	64.8%	64.8%
0-40	164.9	74.5%	74.5%
0-60	198.2	89.6%	89.6%
60-90	23.1	10.4%	10.4%
0-90	221.3	100%	100%
0-180	221.3	100%	100%

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, 120WAC, 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

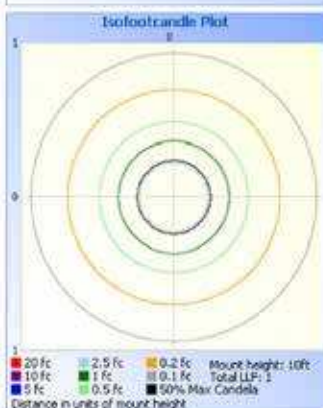
Flood Summary

	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 / PAR36-TPW-014N-002

Luminaire Photometric Report

Filename: PAR36-TPW-120AN-002
 Manufacturer: LEDTRONICS -
 Luminaire: WITH CLEAR LENS, 120WAC, 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

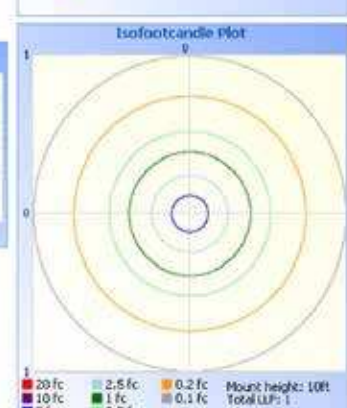
Zone	Lumens	% Lamp	% Luminaire
0-30	153.9	63.3%	63.3%
0-40	180.3	74.2%	74.2%
0-60	210.3	86.6%	86.6%
60-90	24.6	10.1%	10.1%
0-90	243.0	100%	100%
0-180	243.0	100%	100%

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