

LED PAR20 High-Power 6W SpotLight Bulbs

PAR20-6W-XxW-003x



3000K or 6000K White Colors — Operates on 85 to 265VAC — Consumes 6 Watts or Less — E26/E27 Base

Direct Screw-In Replacement of Halogens up to 30 Watts – Up to 80% Energy Savings

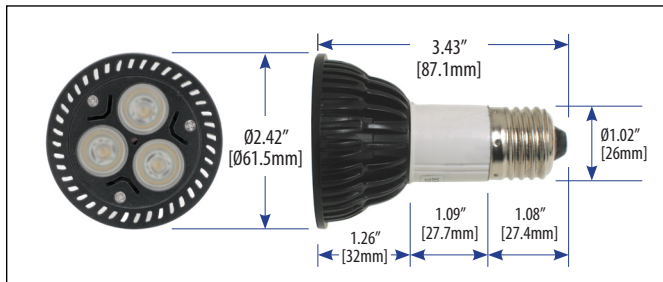
FEATURES

- Lamp Warranty:** 3 Years
- Low Power Consumption:** Only 6 Watts or Less
- Choice of Beam Angle:** 15 to 40 Degrees
- Wide-Range Input Voltage:** 85-265VAC
- Long Lifespan:** White LED Lumen Maintenance Greater than 70% at 50,000 Hours of Operation (*Rated average life based on engineering testing and probability analysis*)
- Solid Construction:** UV-Stabilized Plastic Lens, Magnesium Alloy Body
- Solid-State:** High-Shock & High-Vibration Resistant
- Easy Installation:** Designed as a Direct Retrofit into Most PAR20 Fixtures Using Existing 26mm Edison-Base Sockets
- Even Lighting:** High Intensity / No Halation
- High CRI:** Rendering Index of up to 85 Enhances All Colors
- Highest-Grade LEDs** that Meets LM-79/ LM-80 Requirements
- Wide Operating Temperature Range:** ~-20°C to ~+40°C (~-4°F to ~+104°F)
- Eco-Friendly:** RoHS Compliant



CAUTION: Suitable for use in open luminaires (fixtures)

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



BENEFITS

- Major Energy Savings:** Up to 80% Compared to Halogens
- Low Maintenance:** Lowers Costs By Reducing Re-lamp Frequency
- Eco-Friendly:** No Mercury, No Lead Content
- No Hazardous Emissions:** No UV or IR Radiation
- Reduces Light Pollution:** No Wasted Light, "Dark Skies Initiative"-Friendly
- Cool Operation:** Doesn't Get Hot to the Touch

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

NOTE

These models are for use with standard ON/OFF switches only, not with a dimmer. Use with any type of dimmer, relay or other current/voltage control circuit device will VOID WARRANTY.

APPLICATIONS

- Track / Accent Lighting
- Floodlight / Security / Emergency Light
- General / Architectural and Landscape Lighting
- Display-Case Fixtures and Cabinet Lighting
- Signage and Back Lighting
- Aviation / Aerospace Lighting Systems
- Industrial OEM Equipment Lighting
- Bio-Medical and Medical Applications
- Museums / Theatrical Effects Lighting

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NO.	PAR20-6W-XxW-003x
Input Voltage	85-265VAC [Tested @ 120VAC]
Ambient Humidity	90%
Oper. Temp. Range	~-4° to ~+104°F [~-20° to ~+40°C]
Lamp Shell	PMMA / Magnesium Alloy
Dimensions	L3.43" x D0.242" (87.1mm x 61.5mm)
Weight	3.89 oz / 110.22 g

PART NUMBER	INPUT CURRENT	ENERGY USED typ / max	EFFICACY	TOTAL LUMENS	MAXIMUM CANDELA	CRI	BEAM ANGLE
WARM WHITE / 2700-3200K							
PAR20-6W-XIW-003S	0.086 A	5.0 / 6.0 Watts	35 lm/W	174 lm	1348 cd	85	15°-20°
PAR20-6W-XIW-003M	0.099 A	5.8 / 6.0 Watts	33 lm/W	190 lm	430 cd	85	30°-40°
PURE WHITE / 5500-6350K							
PAR20-6W-XPW-003S	0.093 A	5.3 / 6.0 Watts	47 lm/W	248 lm	1717 cd	76	15°-20°
PAR20-6W-XPW-003M	0.101 A	6.0 / 6.0 Watts	49 lm/W	276 lm	581 cd	76	30°-40°

PAR20-6W-XIW-003S

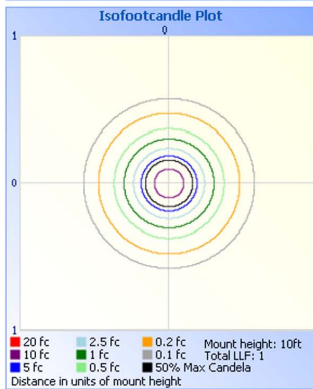
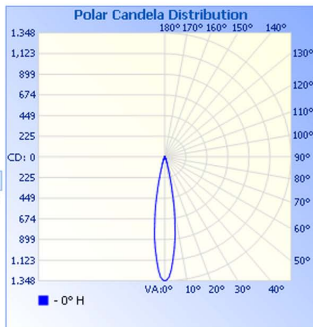
Luminaire Photometric Report

Filename: PAR20-6W-XIW-003S
Manufacturer: LEDTRONICS -
Luminaire: WITH 25 DEGREE LENS, 120VAC, 5W
Luminaire Cat: PAR20-6W-XIW-003S
Lamp: LUMEN RATING: 174.2Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 174.2
Max Candela: 1,348.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 4-16-09

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	76.7%	133.7	32.6	32.6
Beam (50%):	45.3%	78.8	18.2	18.2
Total:	100%	174.2		

Illuminance at a Distance		
Center Beam FC	Beam Width	
1.7R	485.28 fc	0.5ft
3.3R	121.32 fc	1.1ft
5.0R	53.92 fc	1.6ft
6.7R	30.33 fc	2.1ft
8.3R	19.41 fc	2.7ft
10.0R	13.48 fc	3.2ft
■ Beam Spread: 18.2°		



PAR20-6W-XIW-003M

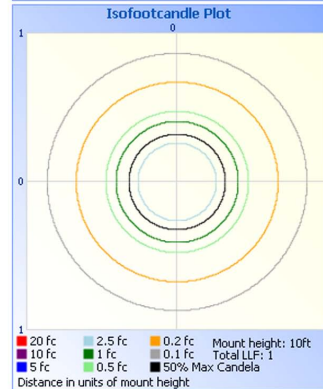
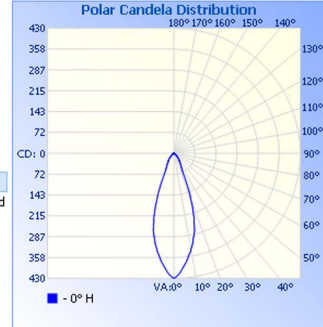
Luminaire Photometric Report

Filename: PAR20-6W-XIW-003M
Manufacturer: LEDTRONICS -
Luminaire: WITH 45 DEGREE LENS, 120VAC, 5.8W
Luminaire Cat: PAR20-6W-XIW-003M
Lamp: LUMEN RATING: 190.0Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 190
Max Candela: 430.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 2-26-09

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	78.7%	149.5	62.9	62.9
Beam (50%):	47.2%	89.7	35.9	35.9
Total:	100%	190.0		

Illuminance at a Distance		
Center Beam FC	Beam Width	
1.7R	154.80 fc	1.1ft
3.3R	38.70 fc	2.2ft
5.0R	17.20 fc	3.2ft
6.7R	9.68 fc	4.3ft
8.3R	6.19 fc	5.4ft
10.0R	4.30 fc	6.5ft
■ Beam Spread: 35.9°		



PAR20-6W-XPW-003S

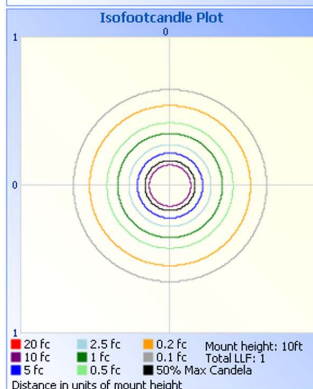
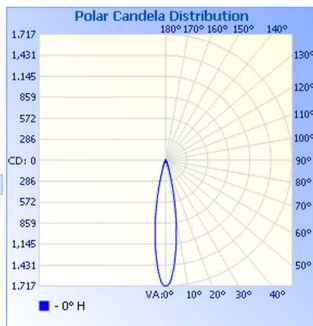
Luminaire Photometric Report

Filename: PAR20-6W-XPW-003S
Manufacturer: LEDTRONICS -
Luminaire: WITH 25 DEGREE LENS, 120VAC, 5.3W
Luminaire Cat: PAR20-6W-XPW-003S
Lamp: LUMEN RATING: 248.0Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 248
Max Candela: 1,717.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 2-26-09

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	77.5%	192.2	35.4	35.4
Beam (50%):	41.3%	102.5	19.1	19.1
Total:	100%	248.0		

Illuminance at a Distance		
Center Beam FC	Beam Width	
1.7R	618.12 fc	0.6ft
3.3R	154.53 fc	1.1ft
5.0R	68.68 fc	1.7ft
6.7R	38.63 fc	2.2ft
8.3R	24.72 fc	2.8ft
10.0R	17.17 fc	3.4ft
■ Beam Spread: 19.1°		



PAR20-6W-XPW-003M

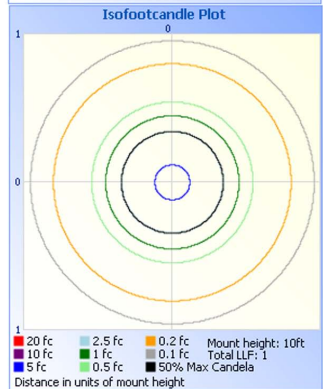
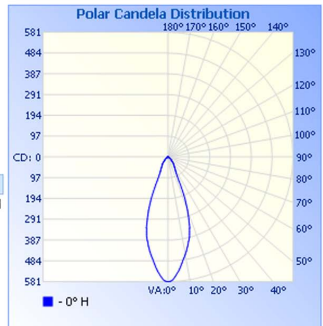
Luminaire Photometric Report

Filename: PAR20-6W-XPW-003M
Manufacturer: LEDTRONICS -
Luminaire: WITH 25 DEGREE LENS, 120VAC, 6W
Luminaire Cat: PAR20-6W-XPW-003M
Lamp: LUMEN RATING: 275.6Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 275.6
Max Candela: 581.0 at Horizontal: 0, Vertical: 0
Luminous Opening: Point
Test: 2-26-09

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	79.8%	220.0	64.1	64.1
Beam (50%):	51.9%	143.1	37.9	37.9
Total:	100%	275.6		

Illuminance at a Distance		
Center Beam FC	Beam Width	
1.7R	209.16 fc	1.1ft
3.3R	52.29 fc	2.3ft
5.0R	23.24 fc	3.4ft
6.7R	13.07 fc	4.6ft
8.3R	8.37 fc	5.7ft
10.0R	5.81 fc	6.9ft
■ Beam Spread: 37.9°		



CAUTION

Suitable for use in open luminaires only. To prevent overheating of the lamp, which may cause premature failure, do not install in totally enclosed fixtures. Recessed fixtures with some type of venting are recommended for use with these lamps. LED PAR Bulbs must not exceed the ambient operating temperature range: ~-4°F to ~+104°F (~-20°C to ~+40°C).