



# LED PAR20 High-Power 6W SpotLight Bulbs

PAR20-6W-XxW-003x

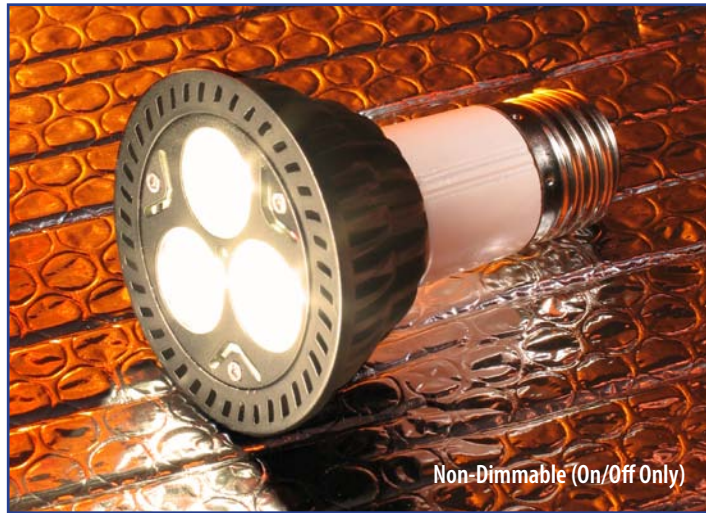


3000K or 6000K White Colors — Operates on 85 to 265VAC — Consumes 6 Watts or Less — E26/E27 Base

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

## FEATURES

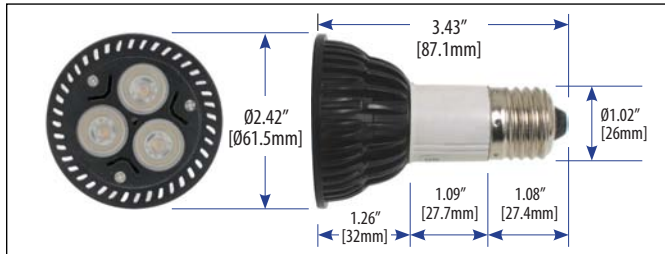
- **Lamp Warranty:** 3 Years
- **Low Power Consumption:** Only 6 Watts or Less
- **Choice of Beam Angle:** 15 to 40 Degrees
- **Wide-Range Input Voltage:** 85-265VAC
- **Long Operating Life:** White LED 50,000+ Hours (5.7+ Years)
- **Solid Construction:** UV-Stabilized Plastic Lens, Magnesium Alloy Body
- **Easy Installation:** Designed as a Direct Retrofit into Most PAR20 Fixtures Using Existing 26mm Edison-Base Sockets
- **Solid-State:** High-Shock & High-Vibration Resistant
- **Even Lighting:** High Intensity / No Halation
- **High CRI:** Rendering Index of up to 85 Enhances All Colors
- **Highest-Grade LEDs:** Uses CREE XR-E that Meets LM-79/ LM-80 Requirements
- **Ambient Operating Temp. Range:** ~-22°F to ~+122°F [~-30°C to ~+50°C]
- **Safety Assurance:** RoHS Compliant



Non-Dimmable (On/Off Only)

## BENEFITS

- **Major Energy Savings:** Up to 80% Compared to Halogens
- **Higher Efficacy:** LEDs Are 10 Times More Efficient than Incandescent Lighting
- **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%
Operat. Temp. Range	~-22°F to ~+122°F [~-30°C to ~+50°C]
Lamp Shell	PMMA / Magnesium Alloy
Dimensions	L3.43"xD0.242" (87.1mmx61.5mm)
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	86 mA	5.0 / 6.0 Watts	34.8 lm/W	174 lm	1,348 cd	85	15°-20°
PAR20-6W-XIW-003M	99 mA	5.8 / 6.0 Watts	32.8 lm/W	190 lm	430 cd	85	35°-40°
PURE WHITE / 5500-6350K							
PAR20-6W-XPW-003S	93 mA	5.3 / 6.0 Watts	46.8 lm/W	248 lm	1,717 cd	76	15°-20°
PAR20-6W-XPW-003M	101 mA	6.0 / 6.0 Watts	48.6 lm/W	276 lm	581 cd	76	35°-40°

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THE FUTURE OF LIGHT

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 Printed material may be outdated.

### 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

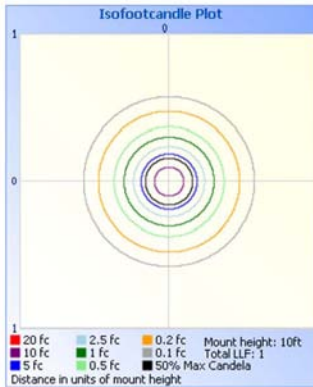
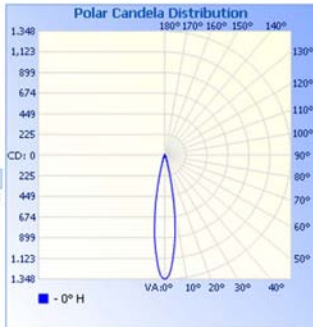
#### Flood Summary

	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
1.7ft	485.28 fc	0.5ft
3.3ft	121.32 fc	1.1ft
5.0ft	53.92 fc	1.6ft
6.7ft	30.33 fc	2.1ft
8.3ft	19.41 fc	2.7ft
10.0ft	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

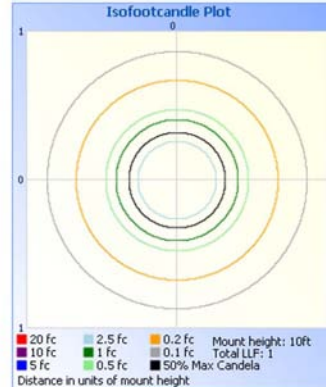
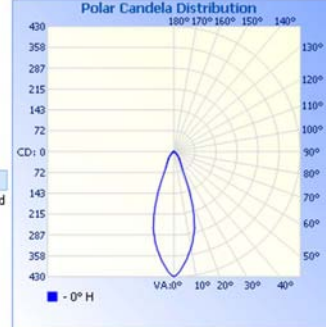
#### Flood Summary

	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
1.7ft	154.80 fc	1.1ft
3.3ft	38.70 fc	2.2ft
5.0ft	17.20 fc	3.2ft
6.7ft	9.68 fc	4.3ft
8.3ft	6.19 fc	5.4ft
10.0ft	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

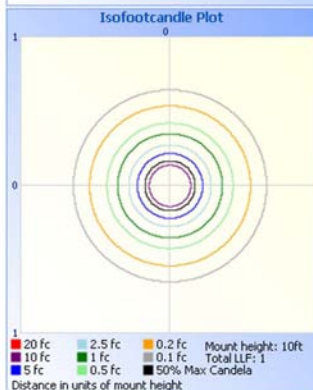
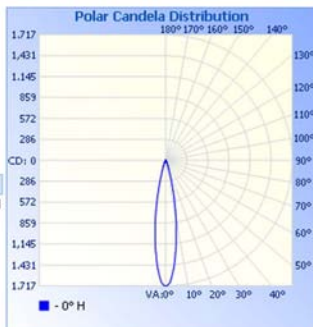
#### Flood Summary

	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
1.7ft	618.12 fc	0.6ft
3.3ft	154.53 fc	1.1ft
5.0ft	68.68 fc	1.7ft
6.7ft	38.63 fc	2.2ft
8.3ft	24.72 fc	2.8ft
10.0ft	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
1.7ft	209.16 fc	1.1ft
3.3ft	52.29 fc	2.3ft
5.0ft	23.24 fc	3.4ft
6.7ft	13.07 fc	4.6ft
8.3ft	8.37 fc	5.7ft
10.0ft	5.01 fc	6.9ft

■ Beam Spread: 37.9°

