

LED PAR46 Railroad Headlight, Marker Bulbs

10~85VDC — Clear PC Lens — 30° Beam — True White, Cool White or Super Red



Drop-in LED Replacement for Sealed-Beam Incandescent Lamps 60PAR/2/R – Up to 90% Energy Savings

Display Lighting – Stage Lighting – Low-Power Headlights – Railcars – Trains – Carts – Alarms

■ FEATURES

- Lamp Warranty: 3 Years
- Very Low Power Consumption: Only 4.7 Watts
- **Solid-State:** High-Shock & High-Vibration Resistant
- Long LED Life: Colored LEDs Last up to100,000 Hours, White LEDs up to 50,000 Hours of Continuous Operation
- Wide Voltage Input Range: 10-85VDC
- Industry Standard-Compliant: Meets or Exceeds SAE Specifications in Voltage Ranges 25V to 38V
- Instant-On Light: No Delay in Re-Strike
- Weatherproof: Rubber Gasket-Sealed, Moisture/ Dust-Resistant
- Solid Construction: High-Impact-Strength Polycarbonate Lens & Base

Over 35 Years of LEDtronics Design, Engineering & Manufacturing Experience



APPLICATIONS

- Rail Car Marker Lights (with Optional Voltages and Colors)
- Headlights for Fork Lifts, Industrial Vehicles, Golf Carts
- Architectural Accent Lighting and Wall Washing
- Low-Heat Medical Spot Lighting
- Loading-Dock Signal Lights



BENEFITS

- Major Energy Savings: Over 90% Compared to Incandescents
- **Higher Efficacy:** LEDs Are 10 Times More Efficient than Incandescents
- Low Maintenance: Lowers Costs by Reducing Re-lamp Frequency
- **Eco-Friendly:** No Mercury Content, Recyclable
- No Hazardous Emissions: No UV or IR Radiation
- **Even Lighting:** High Intensity / No Halation
- Cool Operation: Generates Only a Negligible Amount of Heat Compared to Incandescents
- Safe Low-Wattage Operation: Low Power Draw Puts Less Load on the Electrical System

CUSTOM OPTIONS

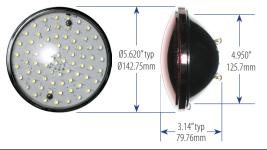
[For qualified applications & large-quantity OEM orders]

- Other Voltages: 24/28V, 120VAC, 240VAC
- Other Colors: Yellow, Orange, Green, Blue
- Other LED Beam Angles for Different Effects
- Available in **Ultra-Violet** LEDs in 395nm or 405nm
- Available in Infra-Red LEDs in 850nm, 880nm, 940nm
- Available as Replacement Kits

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NUMBER	PAR46-72-xxx-001
Input Voltage	10-85VDC [Tested @ 37.5VDC]
Dimensions	Dia 05.62" x Depth 3.14" [0142.75 x 79.8mm]
Weight	0.5125 lb / 8.2 oz / 232.46 g





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

PART NUMBER	INPUT CURRENT	ENERGY USED	EFFICACY	TOTAL LUMENS	MAXIMUM CANDELA	COLOR TEMP.	PEAK WAVE λp	EMITTED Color	BEAM ANGLE
PAR46-72-TPW-001	127 mA	4.8 Watts	69.0 lm/W	331 lm	852 cd	5250K	-	True White	25°
PAR46-72-XCW-001	124 mA	4.7 Watts	41.5 lm/W	195 lm	847 cd	8000K	-	Cool White	20°
PAR46-72-0ER-001	0.453A	4.6 Watts	20.5 lm/W	90 lm	272 cd	-	633 nm	Super Red	30°









PAR46-72-TPW-001

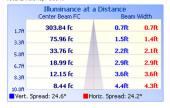
Luminaire Photometric Report Filename: PAR46-72-TPW-001

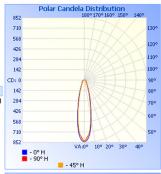
Manufacturer: LEDTRONICS -Luminaire: CLEAR LENS,37.5VDC,4.8W Luminaire Cat: PAR46-72-TPW-001 Lamp: . LUMEN RATING: 331.4Lms.

Lamp Output: 1 lamp(s), rated lamp lumens: 331.4 Max Candela: 852.0 at Horizontal: 45, Vertical: 0 Luminous Opening: Point Test: 9-9-10

Efficiency Lumens Horizontal Spread Vertical Spread 58% 192.2 Beam (50%): 24.6% 81.7 24.2 24.6 Total: 100% 331.4

Zone Lumens % Lamp % Luminaire 0-30 198.5 59.9% 59.9% 233.2 70.4% 0-60 287.9 86.9% 86.9% 43.4 13.1% 60-90 13.1% 0-90 331.3 100% 100% 0-180 331.3 100% 100%







PAR46-72-XCW-001

Luminaire Photometric Report

Filename: PAR46-72-XCW-001 Manufacturer: LEDTRONICS -

Luminaire: WITH CLEAR LENS,37.5VDC,4.7W Luminaire Cat: PAR46-72-XCW-001 Lamp: . LUMEN RATING: 195.0Lms. Lamp Output: 1 lamp(s), rated lamp lumens: 195

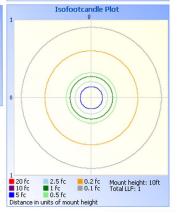
Max Candela: 847.0 at Horizontal: 0, Vertical: 0 Luminous Opening: Point Test: 7-9-09

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire	
0-30	113.6	58.2%	58.2%	
0-40	132.0	67.7%	67.7%	
0-60	164.4	84.3%	84.3%	
60-90	30.7	15.7%	15.7%	
0-90	195.0	100%	100%	
0-180	195.0	100%	100%	
Total Efficiency: 100%				

	Illuminance at a	
	Center Beam FC	Beam Width
1.7ft	304.92 fc	0.6ft
3.3R	76.23 fc	1.1ft
5.0ft	33.88 fc	1.7ft
5.7ft	19.06 fc	2.3ft
3.3A	12.20 fc	2.8ft
90.c	8.47 fc	3.4ft





SAE **LEDTRONICS** Zone Requirements 50 322 100 531 1409 4 391

Requirements and results are the cumulative sums of zone regions

284

50

Photometric Characteristics SAE J586 Specifications

5L 5R 10R 20R 10UP 179 156 5UP 18 199 285 143 17 Н 196 283 290 283 155 5DN 17 136 268 93 17 108 94 10DN

PAR46-72-0ER-001

Luminaire Photometric Report

Filename: PAR46-72-0ER-001

Manufacturer: LEDTRONICS -Luminaire: WITH RED LENS,37.5VDC,4.3W

Luminaire Cat: PAR46-72-0ER-001 Lamp: . LUMEN RATING: 88.0Lms.
Lamp Output: 1 lamp(s), rated lamp lumens: 88

Max Candela: 216.0 at Horizontal: 0, Vertical: 8 Luminous Opening: Point

Test: 7-9-09

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire	
0-30	56.2	63.9%	63.9%	
0-40	64.3	73.1%	73.1%	
0-60	79.4	90.2%	90.3%	
60-90	8.6	9.7%	9.7%	
0-90	88.0	100%	100%	
0-180	88.0	100%	100%	
Total Efficiency: 100%				



