

PROXIMON

LED Street Light Luminary
Model: PSL250 - PSL150 – PSL70



PROXIMON

1. About PROXIMON

Proximon Controls Pvt. Ltd., an established name today in the automation products industry, has a legacy of 16 long years of quality output. It started with manufacturing of Inductive Proximity Sensors, Capacitive Proximity Sensors, Photoelectric Sensors & Color Mark sensors. Subsequently, Logic Controllers for Packaging Machines were added in the product range.

The company's philosophy has always been to make available High Quality Automation Products to the Indian Users at reasonable prices.

The long felt need of Indian OEMS, of an Indigenous Reliable SMPS at attractive prices was fulfilled by the company with its Marathon series SMPS. Today, it is the only company that manufactures Indigenous SMPS & SENSORS with CE compliance.

2. Company is spread all over India & in certain other countries, thro extensive office & distributor network.
3. The development team led by an Post Graduate Electronic Engineer having more than 20 years of experience in Industrial Electronics design & development.
4. Since last four years, company has been working on the development of LED Street Lights using Hi-Power LEDs with very unique casing design.
5. The LED driver, a special circuit, Designed & Developed indigenously having high Efficiency & Power Factor.

Company has invested in years of R&D, manpower and resources in Up gradation of LED Technology. PROXIMON , has developed innovative LED Street Lights which consumes only **25% - 35%** of power consumption of conventional Sodium Vapour lamps, and emits up to 110 - 130 lm/watt with life up to 50,000 hours, all these at very economical cost as compared to conventional LED Street Lights.

The company is headquartered in Mumbai and have its assembly line based in Factory, have expansion plans to have exclusive distributors and sales agents across India.

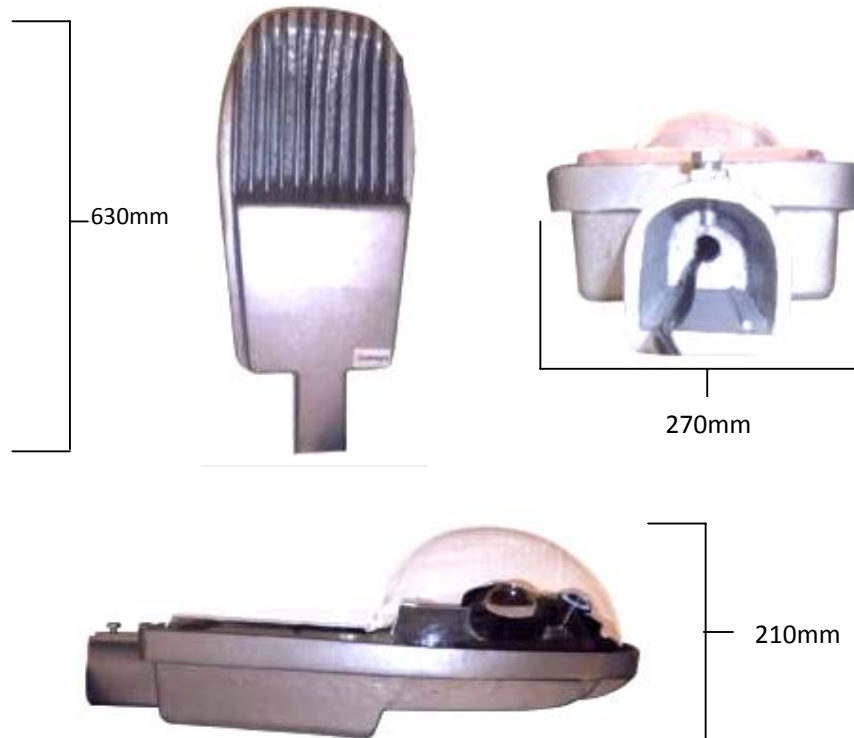
6. Features:

No.	Features
6.1.	Saves about 70 % - 75% of Power as compared to Sodium Vapor Lamps
6.2.	Consumes about 20% of Less Power as compared to other Conventional LED Street Lights
6.3.	Unique dimming feature saves another 25-30% of Power (Optional)
6.4.	Life expected is about 50,000 hrs (~11 yrs) as against Sodium Vapor life of 13,000 hrs (~3 yrs). Hence, Huge Savings on Lamp Replacement Cost
6.5.	Doesn't require any Ballast or Choke which incurs power losses and also generates heat.

6.6.	High Power reflective lenses gives better spread and illuminates wider area at 120°
6.7.	LED light penetrates through haze and fog which helps in reducing accidents
6.8.	Lesser glares to vehicles passing by on opposite road
6.9.	No Night Sky Glow pollution or spillage of lights into nearby buildings and properties
6.10.	Better Color Rendering Index (CRI) than Sodium Vapor Lamps
6.11.	Environment friendly Non Toxic material unlike Sodium or Mercury in CFLs
6.12.	Helps in earning additional Carbon Credits Internationally
6.13.	Enhances aesthetics and beautification of roads



7. Physical Dimensions & Specifications:



SPECIFICATIONS:

SR	Specification	Model PSL250	Model PSL150
7.1.	Outline Dimensions	630 (L) x 270 (W) x 210 (H) mm	630 (L) x 270 (W) x 210 (H) mm
7.2.	Fixture Material	Aluminium Alloy	Aluminium Alloy
7.3.	Lamp Cover	High Impact Poly Carbonate	High Impact Poly Carbonate
7.4.	Weight	appx. 5 kgs.	appx. 5 kgs.
7.5.	Weather Proof Compatibility	As per IP65 standards	As per IP65 standards
7.6.	Operation Temperature	-30°C - 60°C	-30°C - 60°C
7.7.	Storage Temperature	-30°C - 80°C	-30°C - 80°C
7.8.	Rated Power Consumption	90.00 W	50W - 60.00 W
7.9.	Actual Power Consumption (about 85%)	76.50 W	42 - 54.00 W
7.10.	Diming Power Reduction (by 30%)	55 W	36 W
7.11.	Input Voltage	160-260 V AC	160-260 V AC
7.12.	Supply Frequency	57 – 60 Hz.	57 – 60 Hz.
7.13.	Power Factor	>90%@110V AC; >90% @ 220V AC	>90%@110V AC; >90% @ 220V AC
7.14.	No. of LEDs per Luminary	High Power LED x 3 Nos.	High Power LED x 3 Nos.
7.15.	Holder Diameter Size	Ø55 mm	Ø55 mm
7.16.	No. of Drivers in one lamp	3 nos.	3 nos.
7.17.	Supply Cable	1 mtr; 3 core; 1.5 sq. mm.	1 mtr; 3 core; 1.5 sq. mm.

No.	Specification	Model PSL 70
7.1.	Outline Dimensions	630 (L) x 270 (W) x 210 (H) mm
7.2.	Fixture Material	Aluminium Alloy
7.3.	Lamp Cover	High Impact Poly Carbonate
7.4.	Weight	appx. 4 kgs.
7.5.	Weather Proof Compatibility	As per IP65 standards
7.6.	Operation Temperature	-30°C - 60°C
7.7.	Storage Temperature	-30°C - 80°C
7.8.	Rated Power Consumption	30 W
7.9.	Actual Power Consumption (about 85%)	18 - 26 W
7.10.	Diming Power Reduction (by 30%)	16-18 W
7.11.	Input Voltage	160-260 V AC
7.12.	Supply Frequency	57 – 60 Hz.
7.13.	Power Factor	>95%@110V AC; >90% @ 220V AC
7.14.	No. of LEDs per Luminary	High Power LED x 3 Nos.
7.15.	Holder Diameter Size	Ø55 mm
7.16.	No. of Drivers in one lamp	3 nos.
7.17.	Supply Cable	1 mtr; 3 core; 1.5 sq. mm.

8. Optical Performance:

No.	Specification	Model PSL250	Model PSL150
8.1.	Output Lumens	8550 Lm	5700 Lm
8.2.	Colour Temperature	5500 K	5500 K
8.3.	CRI Type	> 80 Ra	> 80 Ra
8.4.	Luminary Efficiency	>95lm/W	>95lm/W
8.5.	Roadway Classification	Type I Medium Cutoff Type II Medium Cutoff Type II Short Cutoff Type V Short Cutoff	Type I Medium Cutoff Type II Medium Cutoff Type II Short Cutoff Type V Short Cutoff
8.6.	Co-efficient of Utilization	85% Front Street; 15% Back Street	85% Front Street; 15% Back Street

9. Reliability Testing:

No.	Item	Criteria	Test Result
9.1.	Thermal Cycle Test	20°C/15min; 65C/15min; within 5 min; for 100 cycles	PASS
9.2.	High Temperature Storage Test	80°C ±2°C for 168 Hrs	PASS
9.3.	Low Temperature Storage Test	-30°C ±2°C for 168 Hrs	PASS
9.4.	Low Temperature Start light up Test	-30°C ±2°C, start lighten	PASS
9.5.	High Temperature/Humidity Test	65°C/ 85% RH for 168 Hrs	PASS
9.6.	Operating Test	50°C ±2°C for 168 Hrs	PASS
9.7.	ON / OFF Test	15min On; 15 min Off; 100 cycles	PASS
9.8.	Salt Spray Test	5% NaCl for 96 Hrs	PASS
9.10.	IP65	Under pressure for 2 hrs; Water jet hose nozzle 6.3mm diameter	Under Testing

INSTRUMENTS USED: MULTI METER, LUX METER, ANALOGUE WATTMETER, ANALOGUE POWER FACTOR METER, MEGGER 500 VOLTS

10. Standards Compatibility:

This product is manufactured as per guidelines by UL; CE; RoHS; ISI (certification in process)

11. Safety Warning:

- 11.1. Make sure that the pole arm is smaller than the Luminary holder i.e. <55mm
- 11.2. Before installation, make sure that the power of complete series of street lights is turned off
- 11.3. Warranty void if seal broken and product will be non-operational.
- 11.4. Make sure that the M10 graded metal screw is has 100% affixed on luminary after installation
- 11.5. Recheck installation firmness and wiring on each street light and has no safety discrepancies.

12. Warranty: 24 months offsite against manufacturing defects.

13. Packing Information:

- 13.1. Packing Unit: Shipping Carton Box
- 13.2. Pieces per Unit: 1 piece/unit
- 13.3. Luminary Dimensions: 630 (L) x 270 (W) x 210 (H) mm
- 13.4. Box Dimensions: 665 (L) x 310 (W) x 325 (H) mm
- 13.5. Gross Weight: appx. 5 kgs.

14. Applicable Taxation and Reliefs:

- 14.1. Depreciation benefit classified under Energy Saving Devices of Income Tax Act
- 14.2. VAT @ 12.50%
- 14.3. Octroi @ 5.50% depending on location of delivery
- 14.4. Other taxes as applicable