

ELS 100 watt LED Street Light Specification and Data Sheet

Electronic Lighting Science's LED Street Light are the next generation in solid state lighting Technology. Our LED lights combine highly efficient materials that allow our lamps an efficacy that far exceeds other brands in the marketplace.

Our 100 watt Street Light is a direct replacement for 400 watt Metal Halide street light. This fixture reduces your energy consumption up to 75% of your current use. Our LED fixture is a cool lighting source and because the fixture last over 50,000 hours maintenance costs are drastically reduced.

Features:

- High Lumen Output
- High Efficiency and Reliability
- Low Power Consumption
- Over 50,000 hour life span
- UL, CE/RoHs Certificate Compliant
- 5 year Manufacturers Warranty

Applications:

- Street Light Applications
- Commercial parking and motorways
- Industrial parking and motorways
- Solar Lighting Applications



An Outstanding Return on a Light Investment

The most attractive investments are those with short payback periods and attractive rates of return. Energy-efficient lighting is just such an investment. As much as 40 percent of your electric bill may be just the cost of your business lighting requirements.

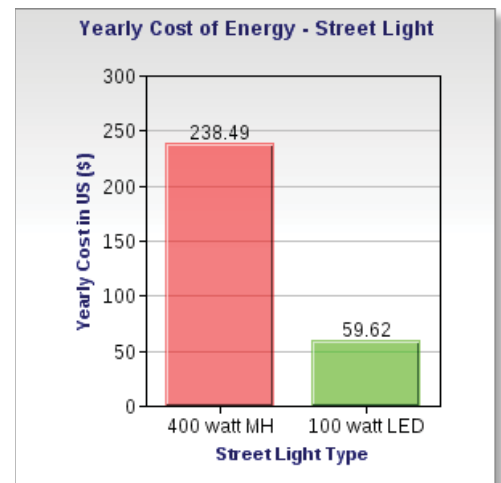
By installing energy-efficient lighting, you can:

- Significantly reduce electric usage
- Decrease monthly energy costs
- Markedly improve lighting quality
- Provide a safer and more productive work environment.

Cost of Energy Comparative Analysis

As a direct replacement for a Metal Halide street light, our LED fixture consumes only 75% of the energy used by a Metal Halide unit. There is huge savings potential when multiple lamps are utilized.

Graph compares the cost of energy per lamp, based on a Commercial price per kilowatt of \$0.1365/hour, 12 hours per day of usage, for 364 days. Cost of energy data for CA from U.S. Department of Energy data for May 2010.



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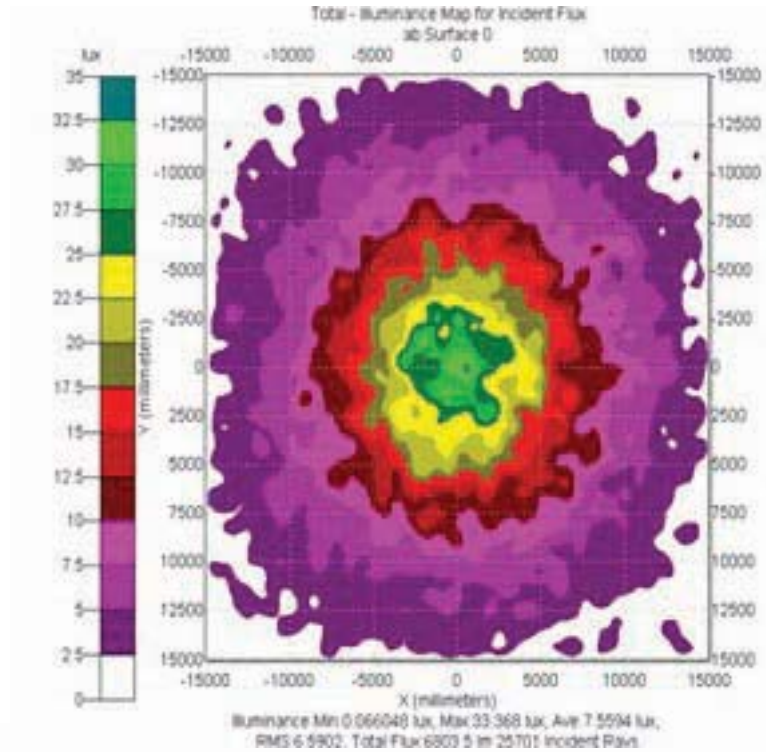
Specification Details

Model No:	ELS-SL-100-WW/ELS-SL-100-CW
Input Voltage	AC 110-277V, 50~60Hz, Solar DC (12/24V)
Power Consumption	100 watts
Voltage Power	>0.90
Power Efficiency	>0.98
LED Power Consumption	104 watts
System Consumption	120 watts
LED Efficiency	100Lm/watts
Luminous Flux	9000Lm
Luminous Efficacy	83.3Lm/watt
Lumen Maintenance	70%
Color Temperature	2,700-7,000K
CRI	80
Life Span	>50,000 hours
Operation Temperature	-40°C~50°C
Junction Temperature	≤80°C
Product Dimensions	Length: 720mm x 324mm x 172mm
Lamp Body Material	Aluminum Die-Casting
Light Source	CREE XP-E R2 LED, 40 pcs
IP Rating	IP65
Weight	9.56kg
HID Equivalent	400 watt Metal Halide

LED Power	Mounting Height	Pole Interval	Luxmeter		Brightness Uniformity
			Center	Average	
100 Watt	7m	21m~28m	56	22.5	0.4
	8m	24m~32m	43	20	
	9m	27m~36m	35	18	
	10m	30m~40m	26	15	

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Photometrics



Polar Candela Distribution Plot
Using incident rays on ab Surface 0

