ELS electronic lighting science
LED TECHNOLOGY

ELS 150 watt LED HIGH BAY Fixture
Specification and Product Manual

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

Our 100 watt High Bay Fixture is a direct replacement for 400 watt Metal Halide High Bay lights. Our High Bay LED fixture consumes only 100 watts, reducing your energy consumption up to 75% of your current use. Our LED fixture is a cool lighting source, which produces No UV or IR, which reduces HVAC loads and temperatures. This feature greatly reduces maintenance costs.

Features:

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

Applications:

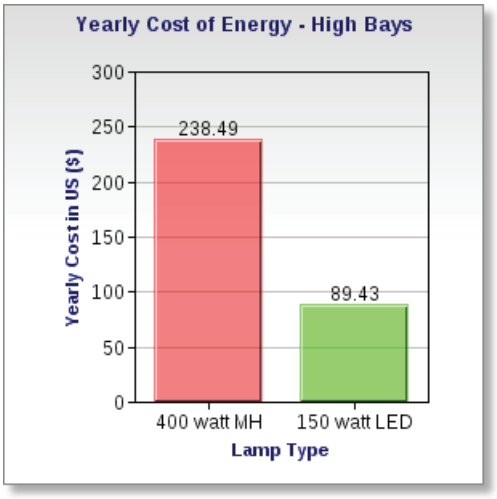
- Commercial Down Lighting
- Industrial Down Lighting
- Warehouse Lighting Applications
- General Illumination

An Outstanding Return on a Light Investment

As a business owner, you look for investments 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 High Bay fixture, our LED fixture consumes only 63% 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

Input Voltage: AC110V~277V

Frequency Range: 47Hz~63Hz

Total Harmonic Distortion: ≤9%

Power Factor: ≥0.95

Power Efficiency: ≥85%

LED Power Consumption: 120 Watts

System Consumption: 150 Watts

LED Efficiency: 60-100Lm/Watt

IP Rating: IP30

Certification: CE

Height: Average/Center Illuminance:
9M: 95Lux
12M: 55Lux
15M: 35Lux

Illuminance Uniformity: >0.7

Light Fixture Material: Aluminum Alloy

Net Weight: 6.9 Kg

Flux: 12,000LM

Luminaire Efficiency: > 90%

Color Temperature: 3,000-7,000K Optional

Color Rendering Index: WW/Ra>68 ; NW/Ra>75 ; CW/Ra>75

Light Distribution: symmetry / spot light (round)

Junction Temperature: ≤ 80°C

Operation Temperature: -25°C~+5°C

Storage Temperature: -25°C~+55°C

Working Life Span: ≥ 50,000 Hours

Power Line: 0.75mm^2 three-core cable

Beam Angle: 90°

Housing Lamp Head Color: Silver

HID Equivalent: 400 watt Metal Halide

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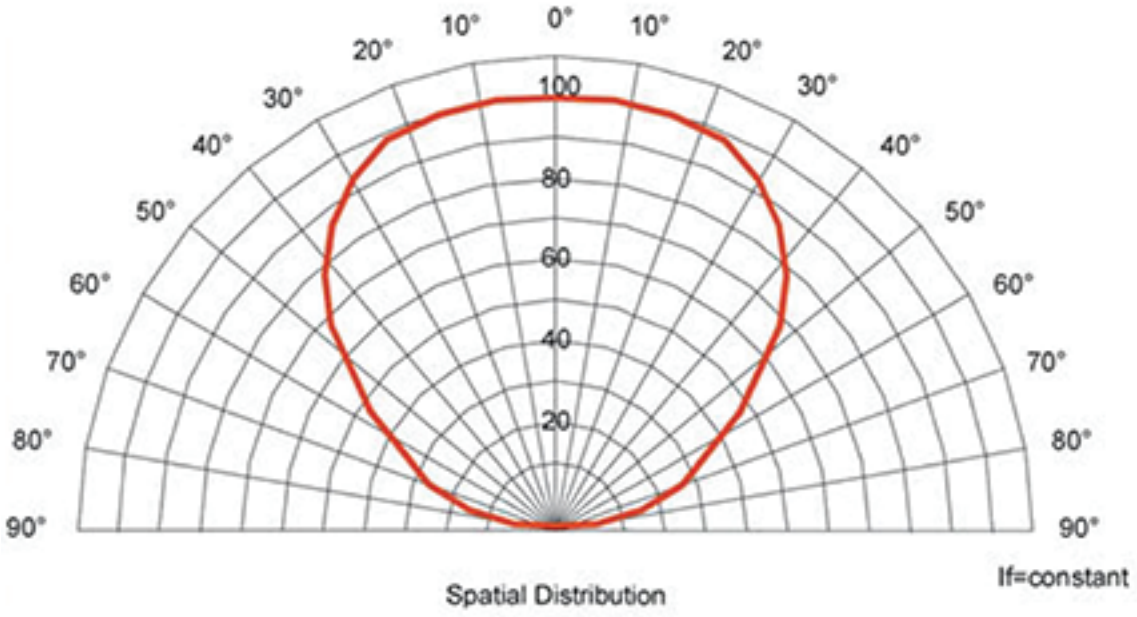
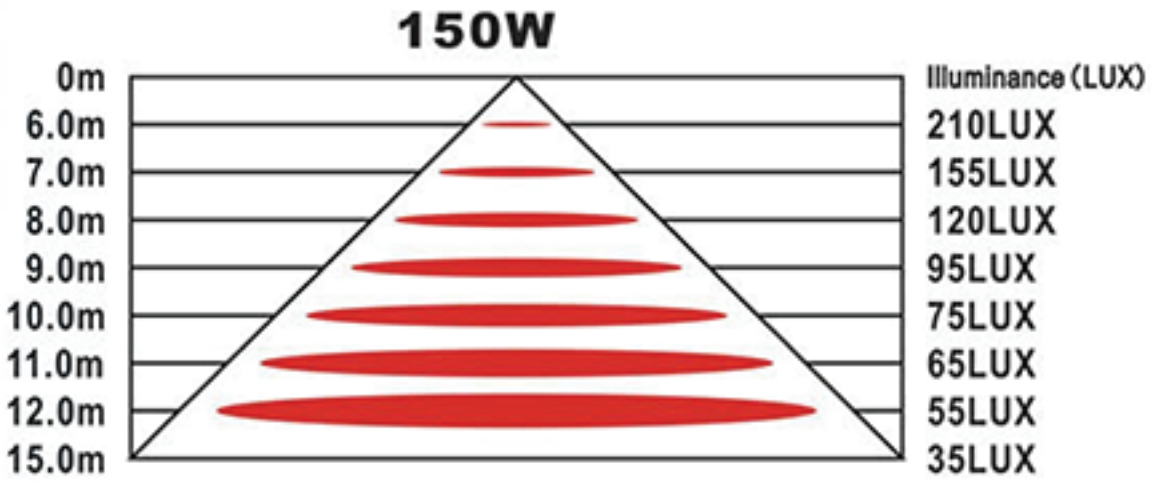
Light Distribution Curve



Light Illuminance



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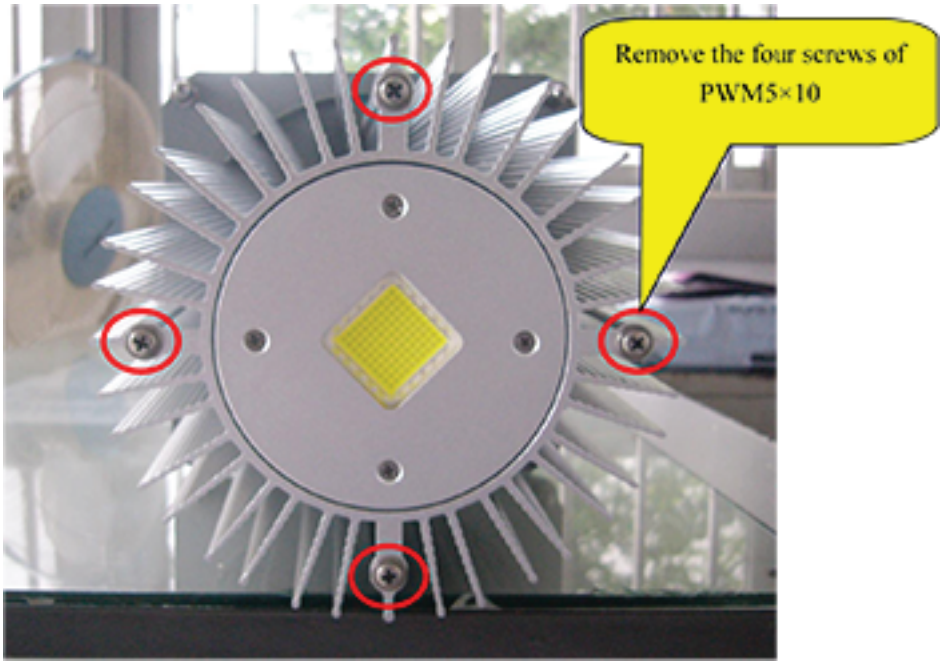
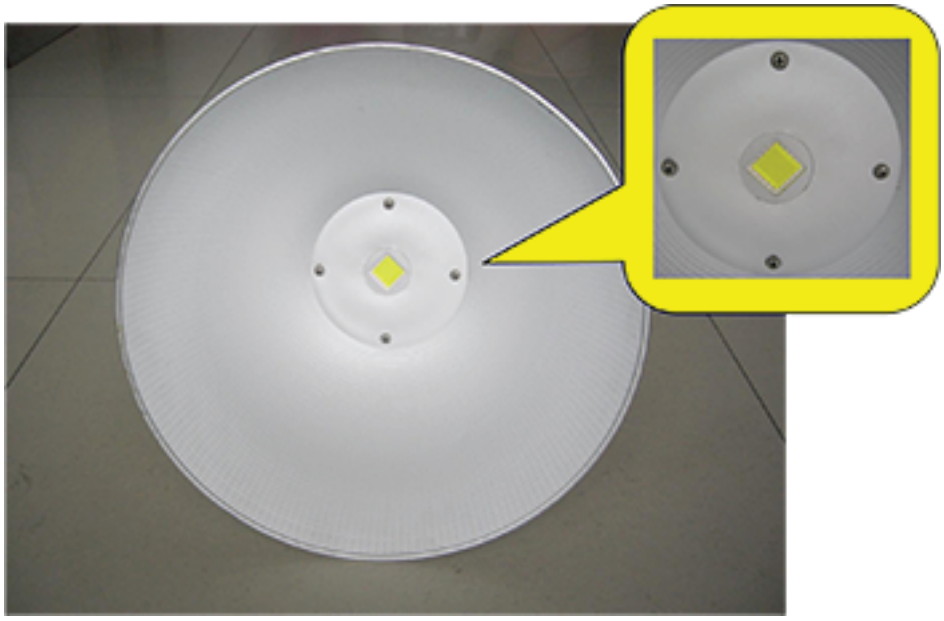
Installation Overview

Step 1: open the package, take out the lamp body and reflecting shade. Remove the four screws of PWM5×10 fixed in the lamp body, as shown below:



Step 2: afix the reflecting shade with four screws to the lamp body, as shown below:



Step 3: check whether the bolts are fully tightened.

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