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How to choose integrating sphere to measuring different lamps

The Status of Integrating Sphere in China Market

What is the Integrating Sphere?

Research of the Optical Parameter's Test Accuracy on Integrating Sphere Reflective Coating and the Installation Position of LED lighting

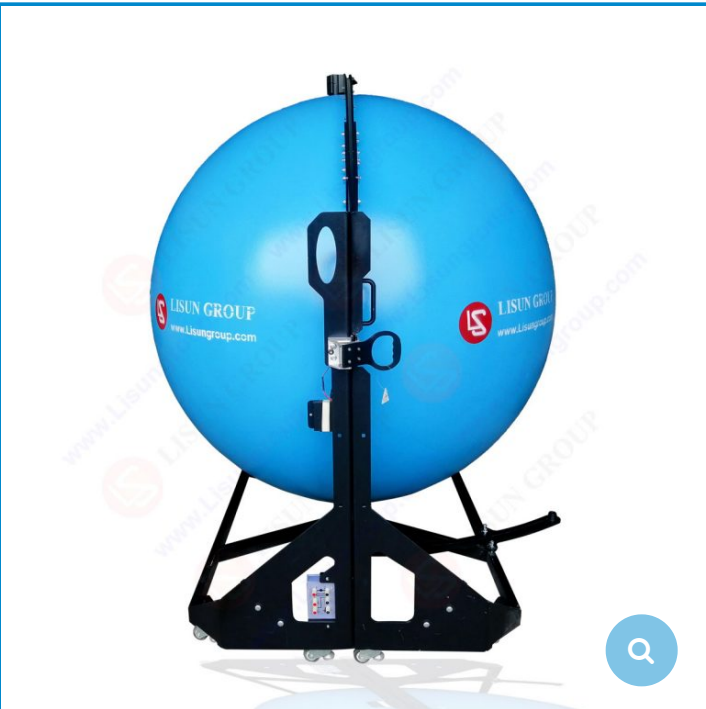
The Role of Integrating Sphere

Improve the accuracy of the LED flux testing in the Sphere

Related Successful Case

Iran-Free installation and training for LPCE-2(LMS-9000A)High precision spectrometer integrating sphere system

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Integrating Sphere With Holder Base

Product No: IS-*MA

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Description

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Due to the LED street luminaires developed, it is hard to do 4 π geometry test in the traditional integrating sphere. Because there is no test base (platform) to hold so heavy LED outdoor lighting fixtures. LISUN IS-*MA Optical 4 π Geometry Integrating Sphere With Holder Base is designed for this kind of LED luminaires.



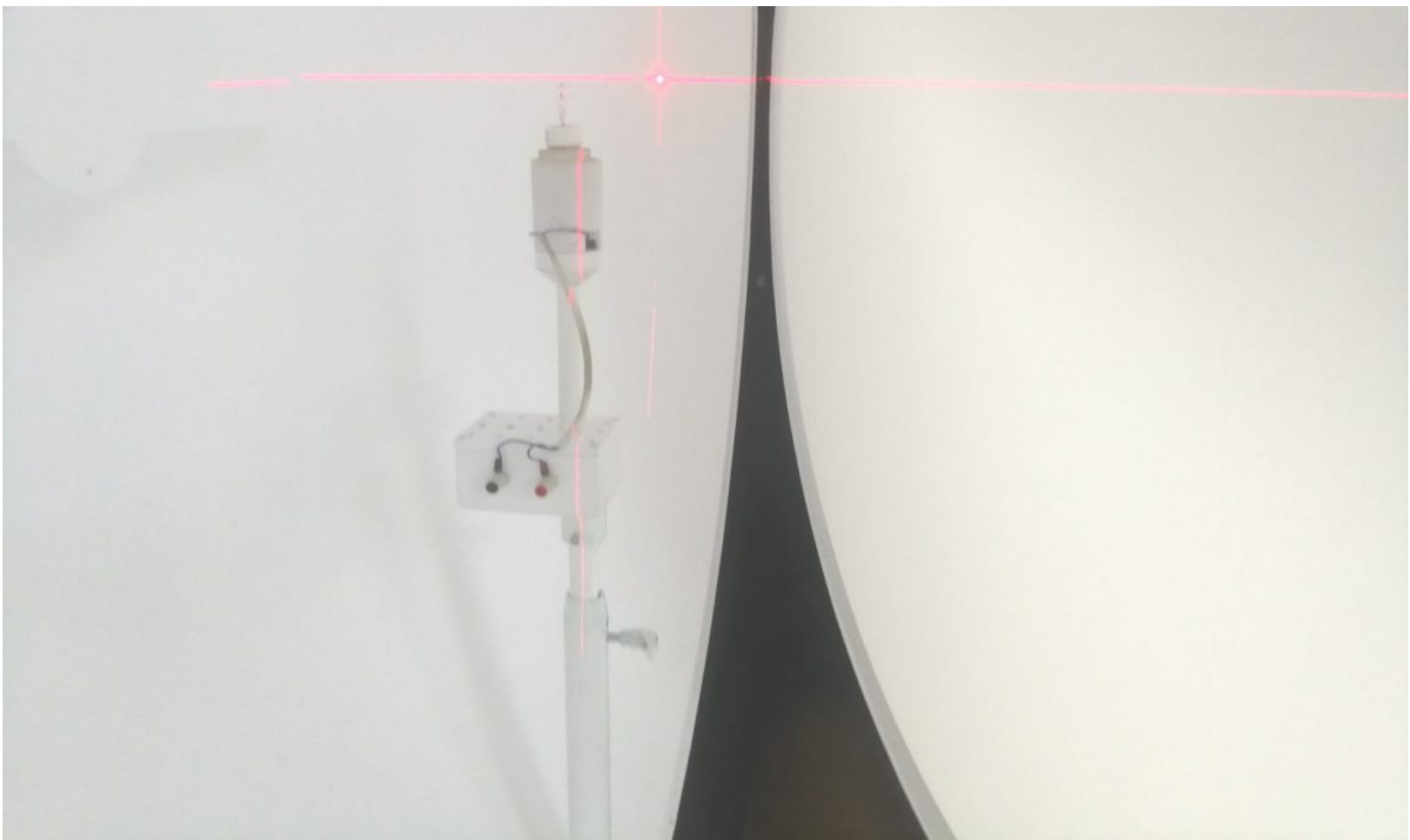
IS-*MA Integrating Sphere T8/T5 Tube Test Holder



IS-*MA Integrating Sphere Test Holder Base can put on max 20kg LED luminaires

Specifications:

- Painting material of integrating spheres is according to CIE Pub.No.84 (1989) and IES-LM 79 Standard.
- The painting material is BaSO₄ coating: $\rho(\lambda) \geq 0.96$ (450nm~800nm) and $\rho(\lambda) \geq 0.92$ (380nm~450nm)
- Fine diffuse reflection: Reflectance $\rho \approx 0.8$ and accuracy of $\rho(\lambda) < 1.5\%$
- Build-in all functional lamp testing jigs: for E40/E27, T5/T8/T12 tubes and the testing holder base for LED and other luminaires. All samples under test can be installed both up and down directions in the sphere.
- Power cable, power terminal and auxiliary lamp position are built-in (Auxiliary lamp is optional)
- Power cable and socket has been build-in. It is convenient to power on the lamp under test
- Two photo detector ports, one optical fiber port and temperature sensor hole are built-in
- Build-in cross laser can help to install the standard lamp and the lamp under test in the center of the integrating sphere



Cross Laser for Integrating Sphere

Applications:

The integrating sphere works with a [Spectroradiometer](#) to do the photometry, colorimetry and radiometry parameters measurement.

- IS-0.3M/IS-0.5M is for LEDs, LED modules, mini LED bulbs & other small lamps. The flux testing range is 0.001 to 1,999 lm
- IS-1.0MA is for CFL or LED bulbs. The flux testing range is 0.1 to 199,990 lm
- IS-1.5MA/IS-1.75MA is for CFL, LED bulb and tube, fluorescent lamp, CCFL. The flux testing range is 0.1 to 1,999,900 lm
- IS-2.0MA is for HID lamps or high power lamps. The flux testing range is 0.1 to 1,999,900lm

Related Products



LPCE-2(LMS-9000) High Precision Spectroradiometer Integrating Sphere System



LPCE-2(LMS-8000) Integrating Sphere Spectroradiometer System for LED



LPCE-3 CCD Spectroradiometer Integrating Sphere Compact System



LPCE-1 Spectrophotometer & Integrating Sphere Test System