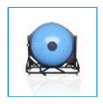
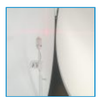
Product Categories

Goniophotometer
Spectroradiometer
Integrating Sphere
LED Test Instruments
CFL Testing Instruments
Photometer and Colorimeter
EMI and EMC Test Systems
Electronic Ballast Tester
Electrical Safety Tester
Environmental Test Chamber
Plug and Switch Testing
AC and DC Power Supply
Object Color and Glossiness Test
Mask Produce and Test Machine
Electronic Components Test





Integrating Sphere with Side Assistant Opening

Product No: IS-*MA**C

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IES LM-79 Clause 9.1.2 requests the 4π geometry configuration and 2π geometry integrating sphere for the LED testing. LISUN developed the photometric integrating sphere with side assistant opening with a molding technology to meet the requirements. The IS-*MA**C/IS-*MA**P integrating sphere has all of the specification of IS-*MA.

The traditional integrating sphere is made up of several pieces. LISUN developed A Molding Technology to produce the sphere. A Molding Integrating Sphere will be more round and the test results will be more accuracy than the traditional integrating sphere. Please click to learn more about the difference of the traditional integrating sphere and A molding technology integrating sphere.

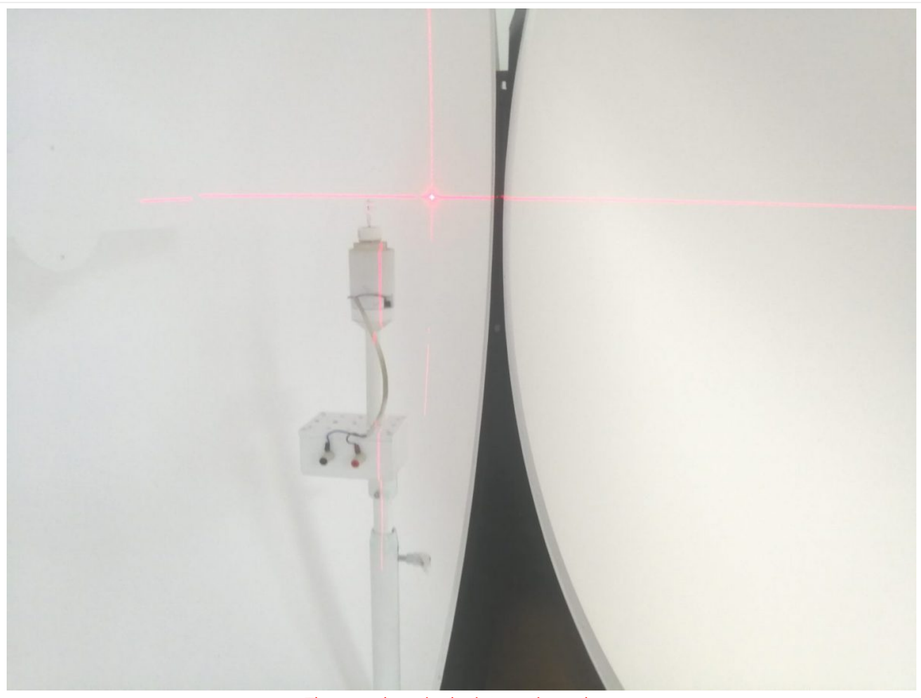
A Molding Integrating Sphere VS The Traditional Integrating Sphere

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: ρ (λ) ≥0.96 (450nm~800nm) and ρ (λ) ≥0.92 (380nm~450nm)
• Fine diffuse reflection: Reflectance ρ≈0.8 and accuracy of ρ (λ) <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 are 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

LISUN Model	Side Opening Size
IS-1.5MA55C	Diameter is 500mm
IS-1.5MA55P	Square 500*500mm
IS-1.75MA66C	Diameter is 600mm
IS-1.75MA66P	Square 600*600mm
IS-2.OMA77C	Diameter is 700mm
IS-2.OMA77P	Square 700*700mm
IS-2.5MA88C	Diameter is 800mm
IS-2.5MA88P	Square 800*800mm
IS-3.0MA1010C	Diameter is 1000mm
IS-3.0MA1010P	Square 1000*1000mm

P.S. Other size integrating spheres can be customized according to customer's requirement.



The cross laser in the integrating sphere

Related Applications

LM-79 and LM-80 Test Solutions

LEDs and Luminaire Test Solutions

Related Standards

CIE International Commission on Illumination

IEC International Electrotechnical Commission

BIS Bureau of Indian Standards

Related Technical Articles

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Reasons of errors for LED Lamp Testing

What is the Integrating Sphere?

LISUN Design 3m Electric Integrating Sphere

New Integrating Sphere Design

The Role of Integrating Sphere

Improve the accuracy of the LED flux testing in the Sphere

Related Successful Case

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Indonesia – Installation & Training of LPCE-2 High Precision Spectroradiometer Integrating Sphere System

India – Installation and training of LPCE-3 CCD Spectroradiometer Integrating Sphere Compact System for our client

India – Constant Temperature Integrating Sphere Spectroradiometer System LPCE-2(LMS-9000B) Installation and Training

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