

Integrating Sphere Testing System

This system measures photometry, colorimetry, and radiometry parameters when paired with a Spectrophotometer. It features a side opening to accommodate larger LED and HID fixtures.



Overview

Precision Light Measurement System

This advanced integrating sphere system is designed for comprehensive photometry, colorimetry, and radiometry testing of LED and HID fixtures. Utilizing a unique molding technology, the sphere ensures superior roundness and measurement accuracy compared to traditional multi-piece designs. It features a specialized side assistant opening, allowing for the convenient testing of large-sized luminaires that are typically difficult to center.

Technical Standards

Geometry Configurations

- 4 geometry configuration
- 2 geometry configuration

Compliance Standards

IES LM-79-08, CIE Pub.No.84(1989)

Construction & Materials

Reflectance Performance

Wavelength Range	Reflectance (λ)
450nm - 800nm	e 0.96
380nm - 450nm	e 0.92

Interior Coating Material

Pure Barium Sulfate (BaSO₄)

Manufacturing Technology

A Molding Technology (Single-piece molding for improved roundness)

Features & Functionality

Lighting Holder Positions

- Vertical: E40, E27
- Horizontal: T5, T8, T12 tubes
- Side Assistant Opening: Large lighting fixtures

Integrated Ports

- Two photo detector ports
- One optical fiber port
- Temperature sensor hole

Auxiliary Capabilities

Yes

Power Supply

Built-in power cable and socket for testing lamps