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Reflectance Integrating Sphere

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Product Downloads

Diameter of Entrance Port (mm):
10.32

Fiber Connector Type:
SMA 905

General

Model Number:
ISP-REFL

Note:
Provides even surface illumination for reflectance

measurements of surfaces such as the color of flat samples

Lamp Lifetime (hours):
900 hours

Title:
Reflectance Integrating Sphere

Physical & Mechanical Properties

Weight (g):
864.7

Dimensions (mm):
54 x 57 x 83

Diameter (mm):
38.10

Optical Properties

Coating:
Spectralon® doped with $BaSO_4$

Spectral Range:
~360–2500 nm

Environmental & Durability Factors

Color Temperature (K):
3100

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 250:
Compliant

Product Details

- Measure Total Irradiance or Reflectance with Models Optimized for Emission Sources or Surface Illumination
- Ideal for UV–NIR Applications in Materials Testing, LEDs, Lasers, and More
- White Reflectance Standard Provides Stable, Repeatable Reference Measurements
- Compatible with Ocean Optics Spectrometers and Accessories

Ocean Optics integrating spheres provide flexible, accurate solutions for measuring light output or surface reflectance across a wide spectral range. Whether you need 360° field-of-view irradiance collection, uniform surface illumination for reflectance measurements, or a stable reference for calibration, these integrating spheres ensure consistent, reliable results. The White reflectance standard (**#90-586**) complements the spheres by providing a dependable calibration reference for diffuse reflectance measurements. Ocean Optics Integrating Spheres are well-suited for UV-NIR applications, including material testing, LED analysis, and laser measurements.

Selection Guide:

FOIS-1 (#90-588): Best for **irradiance measurements** and light emission sources; features a 360° field of view for collecting light from LEDs, lasers, and other broad light fields.

ISP-REF (#90-587): Best for **surface reflectance measurements**; provides even surface illumination and integrates a transfer optic and built-in light source for easy measurement of color or reflectivity on opaque or directional samples.

WS-1 (#90-586): Use alongside your integrating sphere for reliable white reference measurements when calibrating for diffuse reflectance.

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