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Irradiance Integrating Sphere

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Stock #90-588 **NEW** [CONTACT US](#)

1 **£1,116⁰⁰**

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Diameter of Entrance Port (mm):

9.5

General

Model Number:

FOIS-1

Note:

Collects light from emission sources such as LEDs and lasers and is used to measure light fields with a

360° field of view

Irradiance Integrating Sphere **Title:**

Physical & Mechanical Properties

240 **Weight (g):**

56.8 x 62.4 x 38.1 **Dimensions (mm):**

38.10 **Diameter (mm):**

Optical Properties

Spectralon® **Coating:**

250 - 2500 nm **Spectral Range:**

Threading & Mounting

Mounting Threads:
Side Mounts: (1) SMA905 connector for coupling optical fiber to the spectrometer(1) 8-32 threaded hole for post mounts
Top Cap Mounts: (2) 8-32 (hardware not included)(1) 1/4-20 threaded hole in center (screw/adaptor included)

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 250:**

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.