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# Irradiance Integrating Sphere

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## Product Downloads

**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) SMA 905 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.