

# Irradiance Integrating Sphere

See More by [Ocean Optics](#)



Stock **#90-588** NEW **1 In Stock**

-

1

+

£1,116<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £1,116.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

|     |                                 |
|-----|---------------------------------|
| 9.5 | Diameter of Entrance Port (mm): |
|-----|---------------------------------|

General

|                                                                                                                                               |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FOIS-1                                                                                                                                        | Model Number: |
| <div><div>Note:</div><div>Collects light from emission sources such as LEDs and lasers and is used to measure light fields with a</div></div> |               |

360° field of view

| 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                                                                                                                                                                                                                                                           |                  |
| <div>Mounting Threads:</div> <div>Side Mounts: (1)SMA 905 connector for coupling optical fiber to the spectrometer(1) 8-32 threaded hole for post mounts<br/>Top Cap Mounts: (2) 8-32 (hardware not included)(1) 1/4-20 threaded hole in center (screw/adaptor included)</div> |                  |

| 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.