

Gooch & Housego



OL 458-4F White LED-Based Fixed Luminance Sphere Calibration Standard

GENERAL

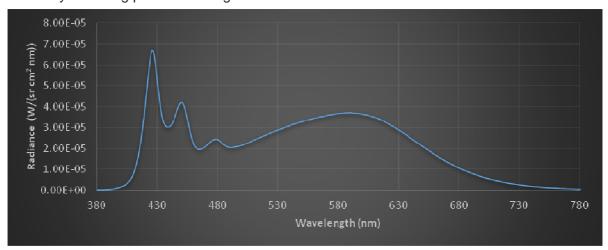
The OL 458-4F is a NIST-traceable integrating sphere calibration standard designed for accurately calibrating micro- and telephotometers, image intensifiers, and imaging photometers and colorimeters for photometric, radiometric, or spectroradiometric response. It serves as a highly accurate, uniform, stable, diffusely radiating source.

The OL 458-4F consists of an optics head and a power supply. This enables remote location of either unit, which facilitates alignment or positioning of the source with respect to the instrument.

OPTICS HEAD

The optics head has dual input sources with multiple LEDs in each source. The LEDs excite a phosphor allowing for a continuous spectrum across the visible range. The sources feed directly into a 4-inch integrating sphere coated with our proprietary Optolon2 material, providing highly diffuse reflectance over the VIS/NIR wavelength range.

Microprocessor-controlled temperature adjustment maintains each source at a constant 40° C, allowing for extreme stability over long periods of usage.



Contact: or landos ales @gooch and house go.com

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As part of our policy of continuous product improvement, we reserve the right to change specifications at any time







OL Series 458-4F White LED-Based Fixed Luminance Sphere Calibration Standard



POWER SUPPLY

The OL 458-4F has an integrated constant current supply, which provides a constant 100 milliamps. The analog current supply runs on 48 Volts DC supplied by the provided AC adapter.

| SPECIFICATION | |
|----------------------------------------------|-----------------------------------------------------------------|
| Size | 5.25 L x 4.50 W x 5.875 H in |
| | (13.34 L X 11.43 W x 14.92 H cm) |
| Neight | 2 lbs (0.91 kg) |
| Power Requirements | 48 Volts DC |
| AC Input Requirements | 100 – 240 Volts |
| PE | RFORMANCE |
| uminance Uncertainty | ± 0.5% relative to NIST |
| uminance Output | |
| Color Temperature | 5030 K |
| Color Temperature Uncertainty | |
| _uminance Stability | |
| Short Term | TBD |
| Long Term | TBD |
| Sphere Coating (reflectance) | > 98% (350 to 1100 nm) |
| Jniformity | |
| Other configurations available upon request. | |
| CALIB | RATION OPTIONS |
| OL 455-4F | luminance, color temperature |
| OL 455-4F-1 | luminance, color temperature, spectral radiance (400 to 780 nm) |
| | uncalibrated |

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