

RS-12D Series Calibration Light Sources



The RS-12D Series consists of NIST Traceable sources that can be used as white light standards of spectral radiance or luminance.

The base unit is supplied as an uncalibrated source, with calibration options including ISO 17025 calibration at maximum luminance, calibration at a user-specified Footlambert value, or via insertion of an optional filter/aperture assembly, can be incorporated into an NVIS display measurement system (please refer to model RS-12DN NVIS).

Full calibration, along with the appropriate calibration certificate is supplied with designated units, based on the requested option.

Precision Calibration Solutions Robust, Reliable and Traceable

Features

- Standard of spectral radiance and luminance
- Correlated color temperature of 2856 K \pm 25 K
- 3-inch diffuse exit diameter with \pm 3% uniformity
- NIST Traceable
- Optional calibration in Footlamberts
- ANVIS output with 10c and 10AR options

Applications

- Sensor testing and calibration
- Calibrate spectroradiometers, radiometers and photometers
- Calibrate detector responsivity
- Measure reflectance and transmittance

In addition to our exceptional technical and functional capabilities, Gamma Scientific is ISO/IEC 17025 accredited by NVLAP (NVLAP lab code 200823-0).

RS-12D Calibration Light Source	
Calibrated Wavelength Range @ Data Interval	380-1100 nm @ 5 nm
Nominal Radiance of Diffuser	2.5 x 10 ⁻⁸ W/cm ² *nm*sr at 380 nm 3.0 x 10 ⁻⁶ W/cm ² *nm*sr at 550 nm 9.5 x 10 ⁻⁶ W/cm ² *nm*sr at 800 nm 1.2 x 10 ⁻⁵ W/cm ² *nm*sr at 1100 nm
Nominal Luminance of Diffuser	2398 cd/m ² 700 fl (n ⁻¹ · cd/ft ²)
Correlated Color Temperature (CCT)	2856 ± 25K
Uniformity of Diffuser	±3% over 65 mm
NIST Standards of Irradiance Output Uncertainty	±2.5%
Size	197 mm (7.8 in) L x 216 mm (8.5 in) W x 203 mm (8.0 in) H 2.8 kg (6.25 lb)
Regulator Type	Constant current
Output Current	4A maximum
Current Accuracy, Long Term	Better than 0.5%
Temperature Range	15°C to 35°C

If NVIS display testing is required (ANVIS Radiance), please refer to model RS-12DN NVIS. Custom calibration options available. Specifications are subject the change without notice.