



GAMMA SCIENTIFIC Light Measurement Solutions

RS-15 (5W-200W) Total Flux Calibration Light Sources



Gamma Scientific's RS-15 total flux calibration light source is a precision source of total radiant flux, used primarily to calibrate integrating spheres, light measuring instrumentation and as stimuli to measure detection devices. Lamps are available from 5W-200W.

The RS-15 source may be used as a standard of spectral radiant flux or luminous flux, traceable to the National Institute of Standards Technology (NIST).

To maintain almost constant radiant flux output, the RS-15 utilizes a tungsten halogen lamp. To power the source, the model RS-4, ultra-stable constant-current supply utilizes precision shunt current measurement and comparison circuits built into the source.

Features

- **NIST-traceable**
- **12-month calibration cycle**
- **Tungsten halogen lamp for stable output**
- **Calibration reports in lumens, Watts and Watts per nanometer**

Applications

- **Integrating Sphere calibration**
- **Spectroradiometer, photometer and radiometer calibration**
- **SSL testing**
- **LED measurements**
- **CCFL measurements**
- **Total flux measurements**
- **Luminaire testing**

About Gamma Scientific
Since 1961 Gamma Scientific has produced LED, display and light measurement test solutions for production and R&D environments. Gamma Scientific instruments are trusted by leading global organizations that require high-speed, precision measurements and custom configurations for the most challenging environments. Gamma Scientific also operates a NVLAP accredited laboratory that performs ENERGY STAR® lighting certification and is ISO 17025 compliant. NVLAP Lab Code 200823-0

To view the complete line of test and measurement solutions from Gamma Scientific, visit www.Gamma-Sci.com.

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Specifications

RS-4 Power Supply	
Regular Type	Constant Current
Measurement Technique	Poggendorf Comparison Method
Meter	Null Type (zero center)
Output Current	4A Maximum
Current Accuracy, Long Term	Better than .05%
Settability	Better than .02%
Temperature Drift	Less than $\pm .25\%$ / 10°C
Temperature Range	15°C to 35°C
Humidity	10% - 85% non-condensing
Regulation	Less than $\pm .02\%$ change for 10 Volt line change
Thermal drift After 8 Minute Warm-up	Less than .01%
Current Ramp On/Off Time	Approximately 30 seconds
Power	220 Watts Maximum
Line Voltage	105/125 VAC and 210/250 VAC, 50-60 Hz
Size	Length: 368 mm (14.5 in) Width: 218 mm (8.6 in) Height: 152 mm (6 in) Weight: 5 kg (11 lbs.)

RS-15 Spectral Radiant Flux Source	
Calibrated Wavelength Range	300-1100nm @ 5nm Interval
Calibration Interval	1 year
NIST Standards of Irradiance Output Uncertainty	$\pm 2.5\%$

