



SRS8
Spectral radiance 380-800nm

SRS8 Spectral Radiance Standard 380-800nm

The SRS8 is a quartz halogen lamp based spectral radiance standard, supplied with a calibration.

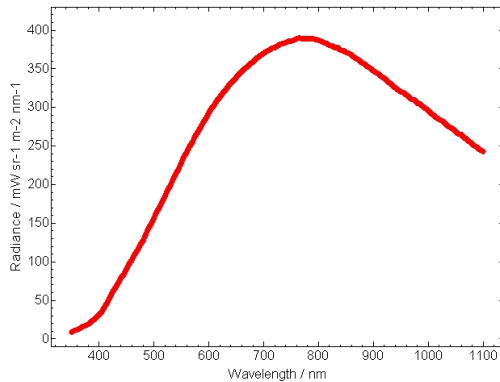
A baffled, grit-blasted quartz halogen lamp inside a 200mm diameter BaSO₄ coated integrating sphere, this uniform source is designed for the routine calibration of spectroradiometers, tele-photometers and luminance meters and is easily mountable on all optical bench systems or flat surfaces. The 52mm diameter exit port is fitted with a ground glass window.

The SRS8 is fitted with a 50W lamp, and should be operated from a precision constant current DC power supply such as the Bentham 610.

Calibration is performed with respect to the Physikalisch-Technische Bundesanstalt (PTB), providing traceability to a National Measurement Institute (NMI). Direct PTB calibration can be provided.



610 constant current power supply



Lamp Specification

Lamp Type	Grit-blasted quartz halogen lamp, G6.35 base
Nominal Lamp Power and Voltage	50W, 12V
Operating Current	4.000A
Expected Lifetime	2000 hours
Calibration Frequency	100 hours use/ recommended annually
Dimensions, LxWxH	91.2 x 44.4 x 76.2 mm

Calibration (typical values)

Measurement type	Spectral radiance over a circular central area of diameter 10mm
Wavelength range	250-2500nm
Wavelength Interval	5nm
Traceability	Physicalish Technische Bundesanstalt (PTB, Germany)
Peak spectral radiance (typ.)	475 mW. sr ⁻¹ m ⁻² .nm ⁻¹ at 750nm
Luminance (typ.)	24000 cd.m ⁻²
Correlated Colour Temperature (typ.)	3400K
Chromaticity coordinates, CIE 1931 & 1976	x = 0.4148 y = 0.4006 u' = 0.2378 v' = 0.5167