

TSRF/TLF
Total Spectral Radiant Flux/
Total Luminous Flux

TSRF Total Spectral Radiant Flux

The **TSRF/TLF** series of total spectral radiant flux standards are designed for use with integrating spheres with diameters ranging from 100mm to 2m.

Standard calibration range is 380-800nm, but this can be extended to cover 300-2500nm range.

The 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.

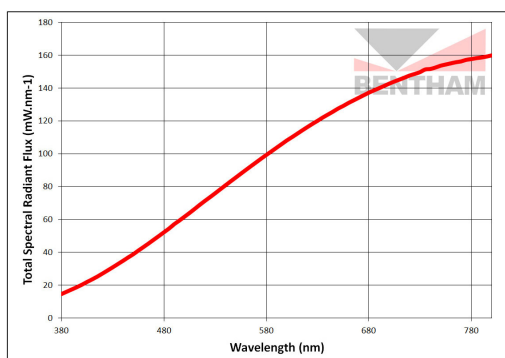
Bentham. Alternatively, direct NPL calibration can be offered.

For non-spectral measurement lamp photometry the lamps can be supplied with total luminous flux calibration (lumens).

The TSRF and TLF require a precision constant current DC power supply and we recommend the Bentham 610 power supply.



610 constant current power supply



Mechanical

Lamp Type	Grit-blasted quartz halogen lamp G6.35 base
Base	E27
Dimensions LxWxH	74 x 52 x 42 mm

Electro-optical

Nominal Lamp Power and Voltage	250W, 24V
Operating Current	10.4A
Expected Lifetime	2000 hours
Peak spectral radiant flux (typ.)	160 mW.nm ⁻¹ at 800nm
Total Luminous Flux(typ.)	6547 lumens
Correlated colour temp.(typ.)	3260 K
Chromaticity coordinates, CIE 1931 & 1976	x = 0.4198 y = 0.3978 u' = 0.2422 v' = 0.5163

Calibration

Measurement type	Total spectral radiant flux
Wavelength range	380-780nm
Wavelength Interval	5nm
Calibration Frequency	100 hours use/ Recommended annually