TSRFx Total Spectral Radiant Flux 380-800nm
(extensions to 300-2500nm)
TLFx Total Luminous Flux

The TSRFx 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 National Physical Laboratory (NPL Teddington, UK) calibrated lamps held by Bentham. Alternatively, direct NPL calibration can be offered.

Options

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

Specification

Units	Model No.	Lamp rating	Power supply current	Typical Lumens	Spectral range	Certificate units	Typical sphere diameter
mW/nm	**TSRF4**	20W	1.666A	480	380-800nm (ext. 300-2500nm)	mW/nm	100 mm
lm	**TLF4**	20W	1.666A	480	V(λ)	lm	100 mm
mW/nm	**TSRF8**	50W	4.000A	1350	380-800nm (ext. 300-2500nm)	mW/nm	200 mm
lm	**TLF8**	50W	4.000A	1350	V(λ)	lm	200 mm
mW/nm	**TSRF20**	100W	8.500A	2800	380-800nm (ext. 300-2500nm)	mW/nm	500 mm
lm	**TLF20**	100W	8.500A	2800	V(λ)	lm	500 mm
mW/nm	**TSRF1000**	100W	8.500A	2800	380-800nm (ext. 300-2500nm)	mW/nm	1000 mm
lm	**TLF1000**	100W	8.500A	2800	V(λ)	lm	1000 mm
mW/nm	**TSRF1800**	250W	10.400A	9000	380-800nm (ext. 300-2500nm)	mW/nm	2000 mm
lm	**TLF1800**	250W	10.400A	9000	V(λ)	lm	2000 mm

Bentham offers two variants of 250W rated constant current d.c. power supply with calibrated current settings for each of the TSRF/TLF standard lamps, models 605 and 607. The latter includes a current ramping facility for lamp switch on and off.

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