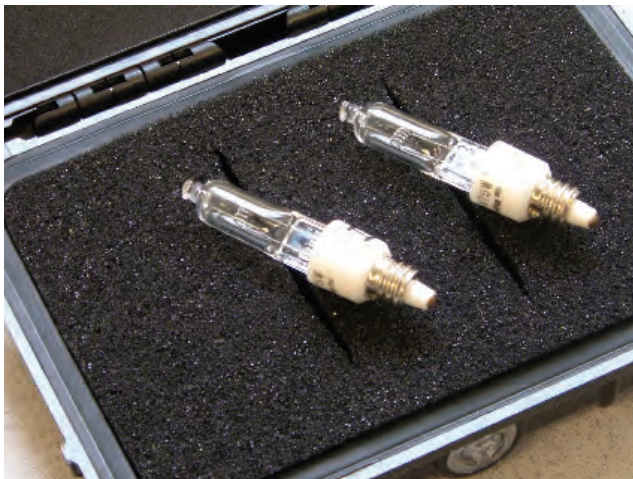


# CALIBRATED SPECTRAL AND LUMINOUS FLUX STANDARDS

## NIST-traceable standards light measurement system calibration



### ACCURATE

Labsphere's Total Spectral and Total Luminous Flux Lamp Standards are selected for their stability and reproducibility. Each standard has been carefully screened, seasoned, and calibrated at our manufacturing facility under the guidelines recommended by the IGSNA (Illuminating Engineering Society) and calibrated to the highest degree of accuracy.

Labsphere's lamp standards of total spectral flux provide an exceptional artifact for calibrating integrating sphere spectrometers for total spectral radiant flux responsivity from 350 to 1050 nm. All of Labsphere's standard lamps are first seasoned for 1% of their rated life and then screened for stability and repeatable performance before they are selected for calibration. The selected lamps are then calibrated directly from the NIST lumen, for a calibration result you can rely on.

Labsphere's lamp standards of total luminous flux provide an exceptional artifact for calibrating integrating sphere photometers for total luminous flux responsivity. The data for a total luminous flux calibration consists of luminous flux in units of lumens corresponding to the operating lamp current applied. A calibration certificate accompanies the luminous flux standard with the lamp operating current and lamp luminous flux. The calibration data for all Labsphere Luminous Flux Standards are traceable to NIST standards.

### FEATURES:

NIST-traceable Total Spectral and Total Luminous Flux Calibration

Screened and Seasoned

Protective Storage Case

Calibration Data on CD-ROM

ISO 9001:2000 Certification

### BEST FOR:

Calibrating Spectral Flux Measurement Systems

Calibrating Luminous Flux Measurement Systems

Maintaining and Verifying Consistent Calibrations

### MULTIPLE CHOICES

Labsphere's lamp standards may be purchased individually or, following the recommendations of national laboratories and industry standards for lamp photometry, in sets of three's. The use of three lamps prolongs the useful life of each lamp, since they may be used interchangeably. A multiple lamp set allows the user to check the lamps against each other to verify calibration data over time. A calibration certificate verifies traceability to NIST is provided with each lamp.

Labsphere's Calibrated Spectral Flux Standard CSFS-XXX are sets of three SCL-XXX spectrally calibrated lamps. CSFS-050 is a set of three SCL-050, 50 lumen spectrally calibrated optical grade krypton lamps. CSFS-600 and CSFS-1400 are sets of three SCL-600 and SCL 1400, 600 and 1400 lumen spectrally calibrated tungsten halogen lamps. The SCL-050 is recommended with the SLMS and SLMS LED Small Systems while the SCL-600 and SCL-1400 are recommended for the Medium and Large SLMS and SLMS LED Systems, respectively.

Labsphere's CLFS-600 and CLFS-1400 Calibrated Luminous Flux sets are sets of three screened CL-600 and CL-1400, 600 and 1400 lumens, calibrated tungsten halogen lamps. The CLFS-600 and CLFS-1400 lamp standards are recommended with Labsphere's Medium and Large PLMS Systems, respectively.

### EASY-TO-USE

All lamp standards include a calibration certificate and spectral flux data in W/nm or total luminous Flux value with operating current. The spectral flux data is provided on a CD-ROM for uploading into Labsphere's Spectral Light Measurement software included with our world leading SLMS and SLMA LED Spectral Light Measurement Systems for total spectral flux.



# Specifications

## Lamp Standard Sets

Model Number	Part Number	Number of Lamps	Approximate Luminous Flux (lumens)	Lamp Current (amps)	Rated Voltage (volts)	Rated Life (hrs)	Base
CSFS-050	AS-02528-000	3	50	1.050	4.2	650	Wire leads
CSFS-600	AS-01336-000	3	600	2.734	12.8	600	SC Bayonet
CSFS-1400	AS-01343-000	3	1400	2.680	28	2000	Min Screw
CLFS-600	AS-01337-000	3	600	2.730	12.8	600	SC Bayonet
CLFS-1400	AS-01344-000	3	1400	2.680	28	2000	Min Screw

## Individual Lamps

Model Number	Part Number	Number of Lamps	Approximate Luminous Flux (lumens)	Lamp Current (amps)	Rated Voltage (volts)	Rated Life (hrs)	Base
SCL-050	AS-02528-001	1	50	1.050	4.2	650	Wire leads
SCL-600	AS-01335-000	1	600	2.734	12.8	600	SC Bayonet
SCL-1400	AS-01342-000	1	1400	2.680	28	2000	Min Screw
CL-600	AS-01332-000	1	600	2.734	12.8	600	SC Bayonet
CL-1400	AS-01339-000	1	1400	2.680	28	2000	Min Screw