

# CALIBRATED FORWARD SPECTRAL FLUX STANDARDS

NIST-traceable standards for light measurement system calibration



## EASY-TO-USE

All lamp standards include a calibration certificate and spectral flux data in W/nm and total luminous flux. The spectral flux data is provided on a CD-ROM for uploading into Labsphere's Spectral Light Measurement software included with our world leading light measurement systems.

## FEATURES:

- NIST-traceable Total Forward Spectral Flux
- Screened and Seasoned
- Calibration Data on CD-ROM
- An ISO 9001:2000 Certified Company

## BEST FOR:

- Calibrating Spectral Flux Measurement Systems
- Calibrating Luminous Flux Measurement Systems
- Maintaining and Verifying Consistent Calibrations

## ACCURATE

Labsphere's Lamp standards of forward spectral flux 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 IESNA (Illuminating Engineering Society).

Labsphere's lamp standards of total forward 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 to the NIST lumen, for a calibration result you can rely on.



## Specifications

Model Number	Part Number	Number of Lamps	Approximate Luminous Flux (lumens)	Lamp Current (amps)	Rated Voltage (volts)	Rated Life (hrs)
FFS-100-400	AS-02768-100	1	400	4.167	12	2000
FFS-100-1000	AS-02768-200	1	1000	8.333	12	2000

Lamp Assembly includes 3 m cable compatible with LPS-150

### Compatible Power Supplies

LPS-150-0416	AS-02656-416	For FFS-100-400
LPS-100-0833	AS-02600-833	For FFS-100-1000

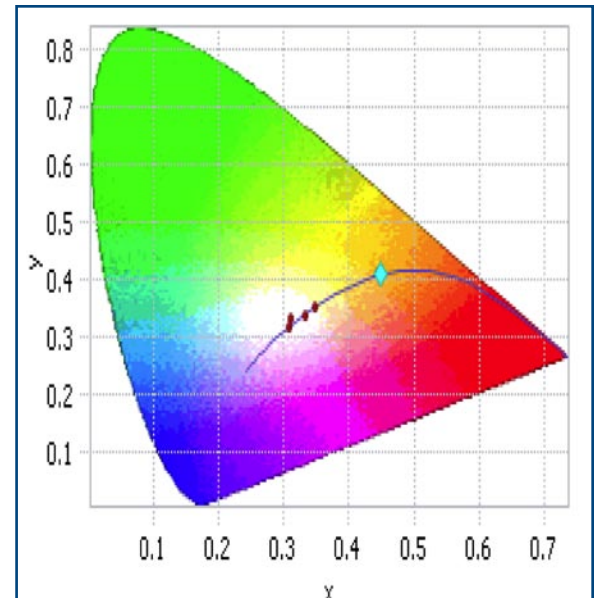
# Typical Data for FFS-400

## SPECTRAL RESULTS

Name	Value	Unit
Radiant Flux	3.032E00	Watts
Luminous Flux	3.411E02	lumens
Chrom x	0.4494	
Chrom y	0.4076	
Chrom u	0.2570	
Chrom v	0.3497	
CCT	2828.0	K

## CHROMATICITY DIAGRAM

CIE 1931, 2 DEGREE



## SPECTRAL DATA CHART

wavelength (nm)	Spectral Radiant Flux (Watt/nm)
350	2.85E-04
360	2.96E-04
370	3.82E-04
380	4.62E-04
390	5.84E-04
400	6.77E-04
410	8.34E-04
420	9.84E-04
430	1.13E-03
440	1.30E-03
450	1.51E-03
460	1.71E-03
470	1.94E-03
480	2.19E-03
490	2.46E-03
500	2.72E-03
510	3.03E-03
520	3.32E-03
530	3.65E-03
540	3.96E-03
550	4.27E-03
560	4.64E-03
570	4.95E-03
580	5.29E-03
590	5.66E-03
600	6.01E-03
610	6.34E-03
620	6.71E-03
630	7.04E-03
640	7.36E-03
650	7.71E-03
660	8.00E-03
670	8.31E-03
680	8.66E-03
690	8.95E-03
700	9.21E-03
710	9.53E-03
720	9.81E-03
730	1.01E-02
740	1.03E-02
750	1.06E-02
760	1.08E-02
770	1.10E-02
780	1.12E-02
790	1.14E-02
800	1.16E-02
810	1.17E-02
820	1.18E-02
830	1.20E-02
840	1.21E-02
850	1.22E-02

## SPECTRAL FLUX GRAPH

