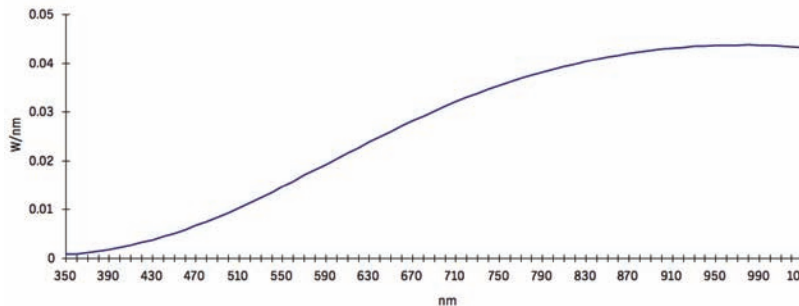


MEDIUM PLMS PHOTOPIC LIGHT MEASUREMENT SYSTEMS

An accurate, flexible, and easy-to-use system for measuring total luminous flux

TYPICAL TOTAL SPECTRAL FLUX STANDARD



FLEXIBLE DESIGN

The Medium PLMS integrating sphere photometers feature a Spectrafect® coated 10 or 20-inch diameter lamp measurement sphere. Spectrafect combines 98% reflectance with nearly perfect Lambertian properties. Both durable and highly stable over time, this coating ensures optimal integration of light over the lifetime of your sphere.

A cosine receiver with an integrated photometer collects the average sphere wall radiance. The sphere design enables testing within CIE recommended geometries, reducing errors associated with directional lamps. The lamp standards of total luminous flux provide NIST traceable results with every measurement. An optional auxiliary lamp corrects for device under test (DUT) absorption differentials for added precision.

FEATURES:

- NIST Traceable Calibrated Spectral Flux Lamp Standard
- Spectrafect® Interior
- External Forward Flux Port
- Latch-free Clamshell Design
- CIE Recommended Geometry for Total and Partial Flux
- Backed by an ISO 9000 Registered Quality Management System

BEST FOR MEASURING:

- Indicator Lamps
- Automotive Lamps
- Miniature Lamps

FLEXIBLE

The PLMS-1000 and PLMS-2000 are quickly enhanced or upgraded with a variety of interchangeable light measurement accessories. The base port design allows for additional cables for assembled fixtures. An external port permits unobstructed mounting of board-mounted or heat-sinked devices for forward and partial flux measurements.

EASY-TO-USE

This out-of-the-box solution offers a latch-free, easy-open clamshell design to permit fast access to the DUT. An adjustable internal mounting platform makes it easy to swap out different sized DUT's as does the quick connect internal and external electrical contacts.



Specifications

Model Number	10 in (25 cm)	20 in (50 cm)
Medium PLMS Photopic Light Measurement Systems	AS-02477-100	AS-02478-100
System Includes	10 in (25 cm)	20 in (50 cm)
LMS-100 or LMS-200, Lamp Measurement Sphere	AS-02477-000	AS-02478-000
CL-600, Calibrated Lamp	AS-01332-000	AS-01332-000
Lamp Socket Assembly	AS-02477-004	AS-02478-002
LPS-100-0260, 2.60 A, 35 W, Preset Power Supply*	AS-02600-260	AS-02600-260
SDA-P, Photopic Detector	AS-02522-001	AS-02522-001
SC 6000, Radiometer/Photometer*	AS-02702-000	AS-02702-000

*Product sheets are available for additional information

System Properties and Performance

Sphere Diameter	10 in (25 cm)	20 in (50 cm)
Sphere Coating Reflectance	98%	98%
Radiometric Range	100 W (max)	400 W (max)
Photometric Range	600 mlm – 2000 lm	2 – 6,500 lm
Max Recommended DUT dimension	1 x 1 in (3 x 3 cm)	2 x 2 in (5 x 5 cm)
Sphere Weight	8 lbs (3.6 kg)	21 lbs (9.5 kg)
Sphere Dimension (W x D x H)	16.7 x 11.9 x 15.5 in (42.4 x 30.2 x 39.4 cm)	28.5 x 23.7 x 29.4 in (72.4 x 60.2 x 74.7cm)
Detector	Vλ Filter Silicon Photodiode	Vλ Filter Silicon Photodiode
Active Area	5.7 mm ²	5.7 mm ²
Range	Visible	Visible
f1'	4%	4%
Connector	Triax	Triax
Radiometer/Photometer	SC 6000	SC 6000
Power Requirements	110./220 VAC, 50/60 Hz	110./220 VAC, 50/60 Hz
Current Dynamic Range	1pA - 1mA	1pA - 1mA
Voltage Dynamic Range	10mVdc – 50Vdc-	10mVdc – 50Vdc-
Computer Interface	Ethernet	Ethernet
Detector	Vλ Filter Silicon	Vλ Filter Silicon
Photodiode Active Area	5.7 mm ²	5.7 mm ²
Range	Visible	Visible
f1'	4%	4%
Connector	Triax	Triax
Lamp Standard	CL-600	CL-600
Power	35 W	35 W
Approximate Luminous Flux	450 lm	450 lm
Rated Life	300 hrs	300 hrs
Calibration	Total Luminous Flux (lumens)	Total Luminous Flux (lumens)
Power Supply	LPS-100-0260, 2.60 A, 35 W	LPS-100-0260, 2.60 A, 35 W
Power Requirements	110./220 VAC, 50/60 Hz	110./220 VAC, 50/60 Hz
Current Stability	0.1%	0.1%
Current Rise Time	20 s	20 s
Regulated Current	2.60 A +/- 0.1%	2.60 A +/- 0.1%
Weight	6.5 lbs (2.9 kg)	6.5 lbs (2.9 kg)
Dimension (W x D x H)	8.3 x 10.5 x 3.5 in (21.1x 26.7 x 8.9 cm)	8.3 x 10.5 x 3.5 in (21.1x 26.7 x 8.9 cm)
Compliance	CE	CE
Optional Accessories		
Absorption Correction Lamp, AUX-35	AS-02639-000	
Preset Power Supply, LPS-100-0307, 3.07 A 35 W	AS-02600-307	
Calibrated Luminous Flux Set ,CLFS-600	AS-01337-000	
Spectrally Calibrated Lamp Set, CSFS-600	AS-01336-000	
Bayonet Lamp Socket Assembly, LMP-1100 SC	AS-02477-004	
Preset Power Supply, LPS-100-0260, 2.60 A, 35 W	AS-02600-260	
50 mm Precision Aperture, PA-200-050 MM,	AS-02487-050	
Horizontal Lamp Mount Bracket	AS-02477-003	
Diode Array Spectrometer, DAS-1100	AS-01682-100	
Diode Array Spectrometer, DAS-2100	AS-01684-100	
Temperature Probe, TP-100	AS-02637-100	
Temperature Probe and Monitor, TPM-100	AS-02638-100	