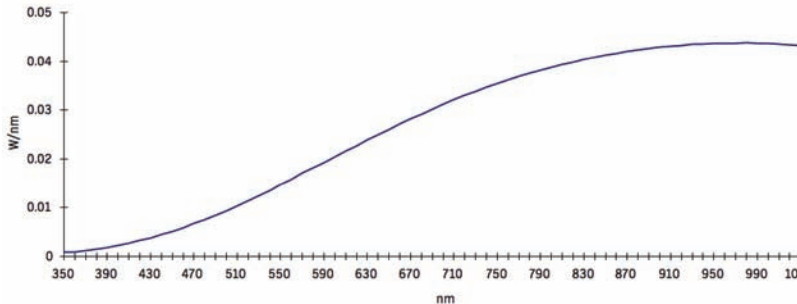


# MEDIUM PLMS PHOTOPIC LIGHT MEASUREMENT SYSTEMS

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

## System Order Numbers

<b>Model Number</b> Medium PLMS Photopic Light Measurement Systems	<b>10 in (25 cm)</b> AS-02477-100	<b>20 in (50 cm)</b> AS-02478-100
<b>System Includes</b> Lamp Measurement Sphere, LMS-100 or LMS-200 Calibrated Lamp, CL-600 Lamp Socket Assembly Preset Power Supply*, LPS-100-0260, 2.60 A, 35 W Photopic Detector, SDA-P Radiometer/Photometer*, SC-5500 *Product sheets are available for additional information	<b>10 in (25 cm)</b> AS-02477-000 AS-01332-000 AS-02477-004 AS-02600-260 AS-02522-001 AS-01636-100	<b>20 in (50 cm)</b> AS-02478-000 AS-01332-000 AS-02478-002 AS-02600-260 AS-02522-001 AS-01636-100

## System Properties and Performance

<b>Sphere Diameter</b> Sphere Coating Reflectance Radiometric Range Photometric Range Max Recommended DUT dimension Sphere Weight Sphere Dimension (W x D x H)	<b>10 in (25 cm)</b> 98% 100 W (max) 600 mlm – 2000 lm 1 x 1 in (3 x 3 cm) 8 lbs (3.6 kg) 16.7 x 11.9 x 15.5 in (42.4 x 30.2 x 39.4 cm)	<b>20 in (50 cm)</b> 98% 400 W (max) 2 – 6,500 lm 2 x 2 in (5 x 5 cm) 21 lbs (9.5 kg) 28.5 x 23.7 x 29.4 in (72.4 x 60.2 x 74.7cm)
<b>Detector</b> Active Area Range f1' Connector	<b>Vλ Filter Silicon Photodiode</b> 5.7 mm <sup>2</sup> Visible 4% Triax	
<b>Radiometer/Photometer</b> Power Requirements Current Dynamic Range Voltage Dynamic Range Computer Interface Weight Dimension W x D x H	<b>SC-5500</b> 110./220 VAC, 50/60 Hz 1 pA – 1 mA 10 mVdc – 50 Vdc IEEE-488 and RS-232C 14 lbs ( 4.75 kg) 16.5 x 16 x 5 (41.9 x 40.6 x 12.7 cm)	
<b>Lamp Standard</b> Power Approximate Luminous Flux Rated Life Calibration	35 W 450 lm 300 hrs Total Luminous Flux (lumens)	
<b>Power Supply</b> Power Requirements Current Stability Current Rise Time Regulated Current Weight Dimension (W x D x H)  Compliance	<b>LPS-100-0260, 2.60 A, 35 W</b> 110./220 VAC, 50/60 Hz 0.1% 20 s 2.60 A +/- 0.1% 6.5 lbs (2.9 kg) 8.3 x 10.5 x 3.5 in (21.1x 26.7 x 8.9 cm) CE	
<b>Optional Accessories</b> Absorption Correction Lamp, AUX-35 Preset Power Supply, LPS-100-0307, 3.07 A 35 W Calibrated Luminous Flux Set ,CLFS-600 Spectrally Calibrated Lamp Set, CSFS-600 Bayonet Lamp Socket Assembly, LMP-1100 SC Preset Power Supply, LPS-100-0260, 2.60 A, 35 W 50 mm Precision Aperture, PA-200-050 MM, Horizontal Lamp Mount Bracket Diode Array Spectrometer, DAS-1100 Diode Array Spectrometer, DAS-2100 Temperature Probe, TP-100 Temperature Probe and Monitor, TPM-100	AS-02639-000 AS-02600-307 AS-01337-000 AS-01336-000 AS-02477-004 AS-02600-260 AS-02487-050 AS-02477-003 AS-01682-100 AS-01684-100 AS-02637-100 AS-02638-100	