



## LAMP MEASUREMENT SYSTEMS SELECTION GUIDE

The chart below provides an overview of the standard photopic and spectral lamp measurement systems offered by SphereOptics. Our engineers have carefully designed these systems to meet the requirements of most lamp measurement applications. If one of our standard systems does not meet your needs, please refer to our [custom lamp measurement system worksheet](#), or contact us for assistance in developing a cost-effective customized system to meet your application needs.

ORDER NUMBER	DESCRIPTION	SPHERE DIAMETER		SPHERE INTERIOR COATING	SPECTRAL RANGE	LAMP STANDARD		APPLICATION SOFTWARE
		INCHES	CM			POWER WATTS	FLUX LUMENS	
PLM-6Z	PHOTOPIC	6	15	ZENITH®	380-780	~5	~60	INCLUDED
PLM-12	PHOTOPIC	12	30	OPTOWHITE	380-780	17	180	INCLUDED
PLM-20	PHOTOPIC	20	50	OPTOWHITE	380-780	17	18	INCLUDED
PLM-40	PHOTOPIC	40	102	OPTOWHITE	380-780	100	1500	INCLUDED
PLM-60	PHOTOPIC	60	153	OPTOWHITE	380-780	100	1500	INCLUDED
PLM-76	PHOTOPIC	76	194	OPTOWHITE	380-780	100	1500	INCLUDED
SLM-6	SPECTRAL	6	15	ZENITH	360-1000	~5	~60	INCLUDED
SLM-12	SPECTRAL	12	30	OPTOWHITE	360-1000	~17	180	INCLUDED
SLM-20	SPECTRAL	20	50	OPTOWHITE	360-1000	~17	180	INCLUDED
SLM-40	SPECTRAL	40	102	OPTOWHITE	360-1000	100	1500	INCLUDED
SLM-60	SPECTRAL	60	153	OPTOWHITE	360-1000	100	1500	INCLUDED
SLM-76	SPECTRAL	76	194	OPTOWHITE	360-1000	100	1500	INCLUDED
SLM-6ZE	SPECTRAL	6	15	ZENITH	300-1050	~5	~60	INCLUDED
SLM-12E	SPECTRAL	12	30	OPTOWHITE	300-1050	~ 17	180	INCLUDED
SLM-20E	SPECTRAL	20	50	OPTOWHITE	300-1050	~ 17	180	INCLUDED
SLM-40E	SPECTRAL	40	102	OPTOWHITE	300-1050	100	1500	INCLUDED
SLM-60E	SPECTRAL	60	153	OPTOWHITE	300-1050	100	1500	INCLUDED
SLM-76E	SPECTRAL	76	194	OPTOWHITE	300-1050	100	1500	INCLUDED

### SYSTEM SOFTWARE

Operating software is included with all Lamp Measurement Systems. The operating software for the Photopic Lamp Measurement series operates in a Windows™ based environment. The software allows for measurement of the luminous flux of a lamp operating at a user specified current or voltage. Units of measure are reported in either Mean Spherical Candle Power or Lumens.

The Spectral Lamp Measurement System software is identical to our photopic system software and includes additional features for spectral data collection. The chromaticity values of  $x$ ,  $y$ ,  $z$ ,  $u'$  and  $v'$  are calculated, displayed, and plotted on a CIE 1931 graph. Correlated color temperature, peak wavelength, and dominant wavelength are also calculated and displayed.

### SYSTEM CALIBRATIONS

SphereOptics offers full calibration services traceable to national laboratory standards. We offer a large variety of [calibration services](#) for light sources and sensors, including luminance, illuminance, radiance and irradiance.