



LUMINANCE/RADIANCE SYSTEMS SELECTION GUIDE

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

ORDER NUMBER	SPHERE DIAMETER		OUTPUT PORT DIAMETER		LUMINANCE RANGE	LUMINANCE UNIFORMITY	MONITOR COLOR TEMPERATURE	MONITOR LUMINANCE	VARIABLE ATTENUATOR	OPERATING SOFTWARE
	INCHES	CM	INCHES	CM						
LR-4	4	10.2	1	2.5	100,000 fL	+/- 0.5%	N/A	N/A	N/A	N/A
LR-6	6	15.2	1.5	3.8	0 to 1800 fL	+/- 0.5%	YES	YES	MANUAL	N/A
LR-12	12	30.5	4	10.2	0 to 500 fL	+/-1.0%	YES	YES	MANUAL	N/A
LR-12-H	12	30.5	4	10.2	5000 fL max	+/-1.0%	OPTIONAL	YES	MOTORIZED OR MANUAL	INCLUDED
LR-20	20	50.8	6	15.2	5000 fL max	+/-1.0%	OPTIONAL	YES	MOTORIZED OR MANUAL	INCLUDED
LR-40	40	101.6	10	25.4	2500 fL max	+/-1.0%	OPTIONAL	YES	MOTORIZED OR MANUAL	INCLUDED
LR-60	60	152.4	15	38.1	2500 fL max	+/-1.0%	OPTIONAL	YES	MOTORIZED OR MANUAL	INCLUDED
LR-75	75	190.5	20	50.8	2500 fL max	+/-1.0%	OPTIONAL	YES	MOTORIZED OR MANUAL	INCLUDED

SYSTEM SOFTWARE

Operating software is included with all Luminance/Radiance Systems with sphere sizes ranging from 12 inches (30.5 cm) through 75 inches (109.5 cm) in diameter. The software runs in a Windows™ XP based environment and is used to control and monitor light output. The software allows the user to turn on and off individual lamps as well as monitor the voltage and current for each lamp. The detector current and calculated luminance from the standard are monitored in real time so that output can be adjusted easily and precisely. Spectral radiance, at any desired wavelength, can be monitored with an optional spectral radiance calibration.

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.