The most economical and accurate solution for IESNA LM-79 and equivalent testing needs!

LightFluxColor Measurement Systems are the most affordable and accurate systems for testing LED lighting products per the LM-79 standard. Whether you are a manufacturer of LED luminaires, street lights, solar powered LED lanterns, LED bulbs, or any other type of LED lighting product, LightFluxColor systems will meet all your testing requirements. Test reports produced by following IESNA LM-79 or other equivalent standards not only make LED products comply with energy efficient lighting regulations but also provide confidence in quality of the product. LightFluxColor Measurement Systems allow luminaire manufacturers to test LED products per global testing standards, quickly launch their products to the market, and prove superior quality to their customers. The systems are not only required by manufacturers but are also essential for government labs, municipalities, and production facilities to ensure strict quality control and vendor qualifications.

The NIST traceable calibrated standard included with the system allows users to perform simple in-house system recalibration and verification without having to ship the system to our manufacturing facility. The system is available with 0.5 m, 1 m, 1.5 m and 2 m integrating sphere size options to accommodate LED chips as well as larger street lights. The integrating sphere is coated with Labsphere® Spectraflect® coating that has up to 98% reflectance and is the highest Lambertian coating in the market. The sphere coating doesn’t yellow over time and doesn’t degrade in due course. The integrating spheres are designed per IESNA LM-79 standard and are capable of measuring in 2 pi and 4 pi geometries.

Why Choose LightFluxColor

- Calibrations are traceable to NIST (USA) which are accepted and recognized globally.
- Calibrated lamp standards NVLAP accreditation Lab Code 200951-0 (ISO 17025)
- Spectral flux standards (calibration performed at each wavelength) are supplied with each system for highest possible accuracy.
- Competitor's systems only provide luminous flux standards with CCT calibration which limits overall system accuracy.
- An auxiliary lamp is provided for absorption correction and auxiliary correction is applied at each wavelength. This improves overall measurement accuracy as compared to other systems on the market.
- The integrating sphere is coated with Labsphere® Spectraflect® coating that has up to 98% reflectance and is the highest Lambertian coating in the market.
- The sphere coating doesn’t yellow over time and doesn’t degrade in due course.
- The integrating spheres are designed per IESNA LM-79 standard and are capable of measuring in 2 pi and 4 pi geometries.
- Local support and training.

Ideal For Flux & Color Characterization of:

- LED Clusters
- LED Chips
- LED Bulbs
- Traffic Lighting
- Railway Lighting
- Architectural Lighting
- Automotive Lighting

LightFluxColor Measurement Systems also include highly sensitive mini-calibrated CCD Array Spectrometers with spectral ranges from 250 to 850 nm or 350 to 1000 nm. These low noise and broad spectral response spectrometers provide instantaneous measurement of radiometric, photometric, and color characteristics of the LED sources.

The fast results from the spectrometers help to increase the rate of product development, decrease the time to market, and reduce development costs.

Users of the systems are also able to perform absorption correction with standard LightFluxColor Systems and the system includes application specific software.

With ability to measure light source spectrum, luminous flux, radiant flux and complete color parameters with highest degree of accuracy and traceability, the LightFluxColor Systems have the best value of all the LED measurement systems in the market.
Key System Features

- Fully complies with IESNA LM-79 standard
- NIST traceable calibrated standards for in-house recalibration NVLAP accreditation Lab Code 200951-0 (ISO 17025)
- Measure absolute spectrum in milliseconds
- Comprehensive Light Measurement Software capable of measuring:
  - Total Spectral Flux (Watts/nm)
  - Luminous Flux (Lumens)
  - Luminous Efficacy (Lumens/Watt)
  - Radiant Flux (Watts)
  - Chromaticity (x, y, u, v)
  - CCT
  - CRI
  - Peak Wavelength
  - Dominant Wavelength
- Spectraflect® interior coating for sphere
- Absorption correction capabilities included
- DC power only

System Properties and Specifications

| Sphere | 20 in (50 cm) | 20 in (50 cm) |
| Sphere Coating Reflectance | 98% | 98% |
| Photometric Range (Illuminant A) | 0.5 - 1800 lm | 0.5 - 1800 lm |
| Spectral Range (Spectrometer) | 250 - 850 nm | 350 - 1000 nm |
| Sphere & Crate Weight | 60 kg | 60 kg |
| 2 pi Port Size | 0.7 M x 1.45 M x 1.0 M |
| Spectrometer Detector | Sony ILX511 linear silicon CCD array |
| Power Supply, M8811, 30V, 5A | Sony ILX511 linear silicon CCD array |
| Lamp Standard | 35 W |
| Approximate Luminous Flux | 600 lm |
| Rated Life (Calibrated) | 50 hrs |
| Calibration | Spectral Flux (W/nm) |
| Traceability | 350 - 1050 nm |
| Compliance | NIST traceable |
| AUX Lamp | AUX-50 (50W) |

System Upgrades for AC lamp operation

- LEX upgrade rack
  - Part Number: AA-01165-900
- LES upgrade rack
  - Part Number: AA-01166-900

System Optional Components

- SCL 600 cal lamp
  - Part Number: 6 in (15.24 cm)
- Replacement Aux-50 bulb
  - Part Number: LEW-00014-000