Have Confidence in Every Lamp and Luminaire You Measure

Parameter	Value	Expand. Uncert., k=2	Expand. Uncert., k=2, %
Φ (W)	2.786	0.0074	0.4%
ϕ (lumens)	821.82	3.018	0.3%
x	0.4569	0.0132	
y	0.4049	0.0135	
u'	0.2631	0.0106	
v'	0.5247	0.0021	
CCT, K	2693	22	
CRI	82	1.7	

Uncertainty Analysis Services

Have Confidence in Your Reports

Uncertainty is inherent in every measurement. To better understand the value of a measurement, analyzing the uncertainty is required and instills confidence in the measured values.

Pass Your Audits the First Time

Labsphere is a recognized leader in the field of light metrology. Let us analyze the uncertainty of your lamps and luminaires in a Labsphere total spectral flux light measurement system.

For each Lamp or Luminaire, a Labsphere Uncertainty Analysis Report Provides

Type A and Type B Uncertainty Contributions including:

- Reference lamp standard spectral flux uncertainty[1]
- Aging of the reference lamps
- Noise contributions
- Near field absorption
- Non-linearity
- Combined uncertainties
- Expanded uncertainty
- Current to the reference lamp(s)
- Wavelength accuracy of the spectrometer
- Stray light
- Sphere uniformity response
- Temperature
- Degrees of freedom for each contribution factor
- Spectral flux uncertainty every 5nm

[1]Included with Labsphere's ISO/IEC 17025 NVLAP Lab Code 200951-0 Accredited Lamp Standards

Order Information

Part Number	Model	Description
IPU-FL	illumia®Plus Uncertainty (first lamp)	Spectral Flux and Color Uncertainty Report for a single lamp type measured in a Labsphere illumia®Plus system
IPU-AL	illumia®Plus Uncertainty (each additional lamp)	Spectral Flux and Color Uncertainty Report for each additional lamp type measured in a Labsphere illumia®Plus system with the purchase of the initial lamp uncertainty analysis (IPU-FL)

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