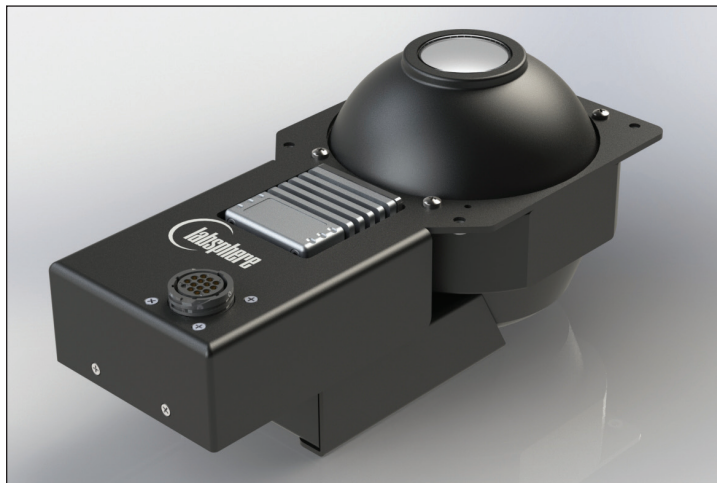


Enable accurate and reproducible calibration of displays across devices



## Accurate

Many mobile devices have LCD displays that are backlit with cool white LEDs. These LEDs have a strong peak in the blue region to excite the phosphor that produces the visible cool white appearance. The spectrometers and colorimeters used to calibrate these displays are typically calibrated with tungsten halogen sources which can result in inconsistent measurement results of the displays due to spectral mismatch errors and stray light in the meters. The best way to correct for these errors is to correct the meter response with a spectrum that matches that of the display backlight. The TruLume Solid State Luminance Standards are highly stable and accurate cool white solid state integrating sphere luminance and color standards that enables accurate and reproducible calibration of displays across devices.

## Compact and robust for production environments

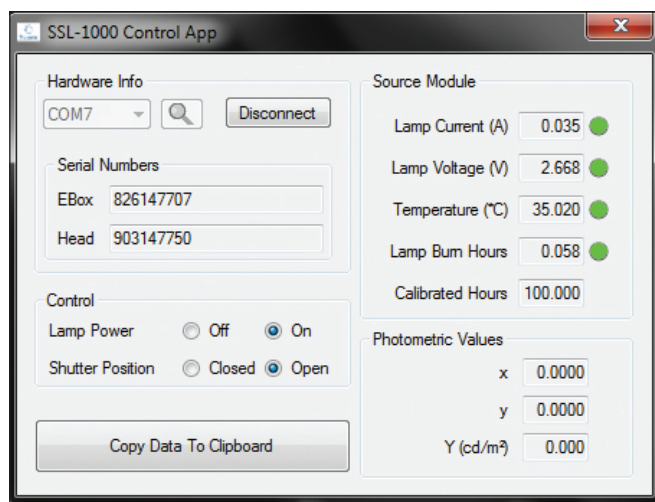
The TruLume Solid State Luminance Standards are engineered for the demanding high quality and consistent appearance requirements of consumer product displays. The source is engineered to easily mount in a production test station. The reference port window enables validation and correction across the field of view of the test spectrometers with highly uniform luminance and color accuracy. With Labsphere's highly diffuse and durable reflectance coating, Permafect® and a seasoned LED module, long term repeatability and reproducibility are ensured in the application environment.

## VALUE

Correct for spectrometer and colorimeter errors in production testing to ensure reproducible display image quality

Compact and robust for easy adaptation into existing test environments

Completely enclosed with raised reference port window to minimize contaminations and promote easy cleaning



## Order Information

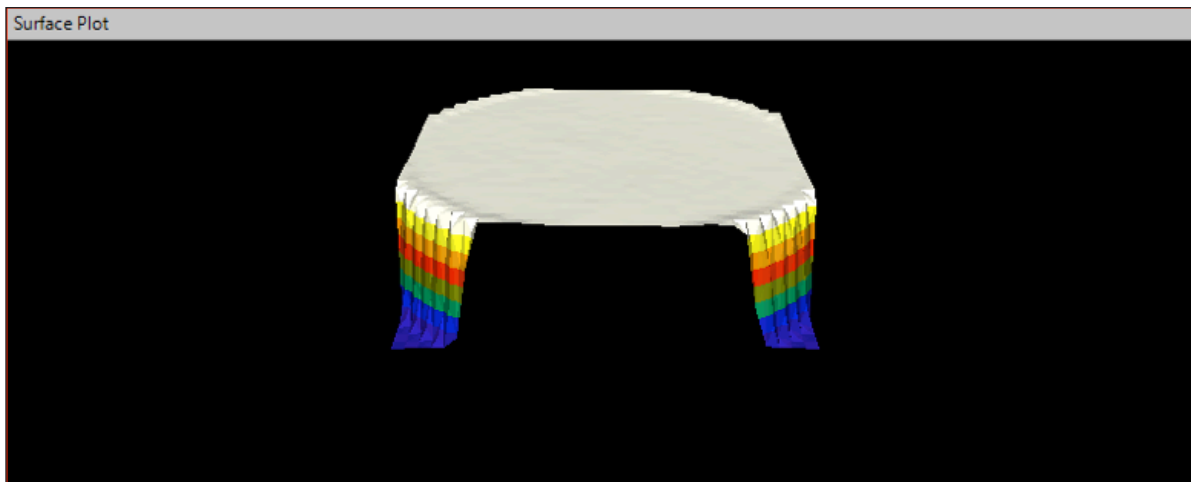
Model Number	Order Number	Description
SSL-1000	AA-01269-000	25.5 mm diameter reference port
SSL-1010	AA-01270-000	40 mm diameter reference port

### Accessories Include:

- Uniform Source and Control Module
- Control Commands and UI
- Calibration Reports
- Transport Case

# Specifications

	SSL-1000		SSL-1010	
Luminance Spatial Uniformity:	>98% inside of 23 mm diameter reference area		>98% inside of 35 mm diameter reference area	
Luminance:	500 cd/m <sup>2</sup>		500 cd/m <sup>2</sup>	
Luminance Uncertainty:	+/- 0.9% k=2		+/- 0.9% k=2	
Typical x:	0.3567		0.3567	
Chromaticity x Uncertainty:	+/- 0.0009 k=2		+/- 0.0009 k=2	
Typical y:	0.3658		0.3658	
Chromaticity y Uncertainty:	+/- 0.0009 k=2		+/- 0.0009 k=2	
Typical CCT:	4650 K		4650 K	
Light Source:	Fully enclosed Integrating Sphere TE Controlled Cool White LED 25.4 mm Luminance Port 3 m Detachable Cable Power Module		Fully enclosed Integrating Sphere TE Controlled Cool White LED 40 mm Luminance Port 3 m Detachable Cable Power Module	
Calibrated Life:	100 hrs.		100 hrs.	
Stability over 100 hours:	Y: < +/- 0.5% x: +/- 0.0009 y: +/- 0.0009		Y: < +/- 0.5% x: +/- 0.0009 y: +/- 0.0009	
Warm-up Time:	<45 seconds from cold start		<45 seconds from cold start	
Control Software and User Interface:	x, y, and Y TEC Temperature On/Off LED Current Set and Actual Operation Timer Connection Status Optical Head IDN		x, y, and Y TEC Temperature On/Off LED Current Set and Actual Operation Timer Connection Status Optical Head IDN	
Operating Temperature:	20 - 40 degrees C, 0 - 70% RH		20 - 40 degrees C, 0 - 70% RH	
Computer Requirements:	Windows 32 bit USB		Windows 32 bit USB	
Power Input:	110/220 VAC, 50/60 Hz		110/220 VAC, 50/60 Hz	
Dimensions/Weight:	Height x Width x Depth 13 cm x 11 cm x 26 cm (source module) 13 cm x 23 cm x 37 cm (power module)	Weight 0.59 kg 6.8 kg	Height x Width x Depth 13 cm x 14 cm x 26 cm (source module) 13 cm x 23 cm x 37 cm (power module)	Weight 1.5 kg 6.8 kg



Luminance Uniformity Chart of Typical SSL