

LED 壽命測試系統

LED Workstation designed to meet your specifications for LED life measurement



LTS LED 壽命檢測系統

主要組件

- Integrating Sphere Assembly 積分球
- Multiplexerbox 多路結合器
- Computer with application software 電腦及相關軟件
- WorkstationDesk 工作臺
- A/C Control Box and Spectrometer 光譜儀
- Keithly Source Meter
- LPS-150 Lamp Power Supply 電源
- Various Electrical cabling 電源綫
- Spectrometer Fiber Optic Cable 光纖
- Qty 3, SCL-050 Spectral Flux Standards with 71 data point calibration data 校準器及相關標準文件
- 10 spare extension boards 拓展槽
- Install CD-ROMs 軟件安裝CD
- System Manual 操作手冊

主要特點

LTS LED壽命測試系統主要由一個9英寸積分球，相關電源，高性能光譜儀，電腦及相關附件組成。同時，配備了一套五組鹵鎢燈，其文件可追述至National Institute of Standards and Technology (NIST)。

積分球設計將反射板和紅外濾光片結合成爲一個整體。這個創新的設計可有效地提高其空間靈敏度并減少雜散光的產生。每個校準文件的數據，間隔1nm，軟件可通過實際採集的數據與標準文件的比較，計算系統的相關係數。其標準遵循CIE-127。

主要檢測項目

- Total radiant flux
- Total luminous flux
- Peak wavelength
- Centroid wavelength
- Dominant wavelength
- Full width/Half max
- CIE purity
- CIE Chromaticity
- Forward voltage
- Forward current
- Leakage current



技術參數

Integrating Sphere 積分球

Reflectance Material	Spectralon®
Inner Diameter	9-inches
Reflectance	99%

Calibration Lamp 校准燈

Electrical Rating	4.2V, 1.05A
Photometric Ratings	50lm, 3000K, 600hrs

Optical Test data 測試數據範圍

Spectral Range	380 - 7000 nm
Radiant Flux Range	1 mW - 100 W

Optical Specifications 光譜儀參數

Spectral Range	380 - 720 nm
Wavelength Accuracy	0.5nm
Color accuracy	±0.001 (x and y) Illuminant A
Optical Resolution	2 - 3 nm (Bandwidth)
Positional Sensitivity	<+0.5%
Calibration Traceability	NIST
Optical Radiation levels	*
Typical Cycle Time	<3 seconds per LED
Spectral Repeatability	<0.2 nm

Electrical Specifications 電參數

Forward Voltage Measurement	*
Voltage Uncertainty	0.02 Vdc (at 4.00 V)
Voltage Repeatability	0.01 Vdc (at 4.00 V)
Current Measurements	*
Current Uncertainty	<1% (at 20 mA)
Current Repeatability	0.09 mA (at 20 mA)
Reverse Leakage Current Uncertainty	0.01 mA (at 10 Vdc)
Reverse Leakage Current Repeatability	0.01 mA (at 10 Vdc)
Burn-in and Carrier Board Temperature	85°C

Dimensions 外形尺寸

Weight	ft x 3 ft x 4.33 ft 280lbs
Electrical requirements	115VAC, 60Hz, 20A (system draws 6A)

*Optimized to customer requirements

* 可由客戶自行配置

