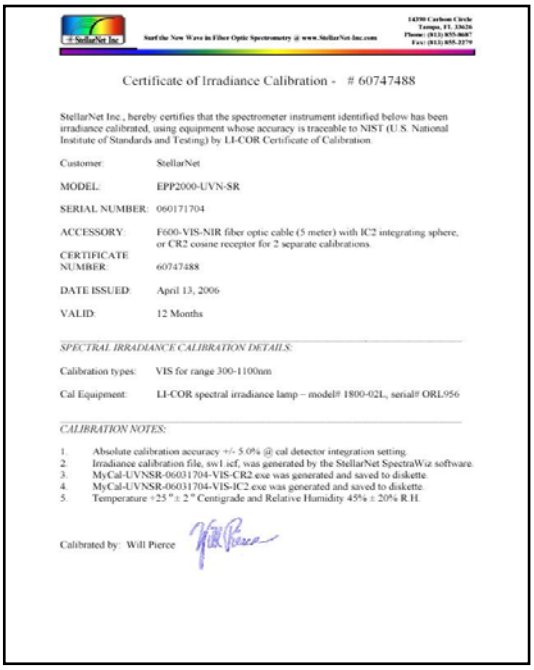
Spectral Calibrations for UV-VIS-NIR

- **NIST traceable** Irradiance calibration service
- **Allows absolute intensity** measurements using Irradiance Compensation File (ICF) generated by calibration. To enable, install MyCalnnnnn.exe.
- **Absolute calibration** accuracy within 10% at detector integration setting used for calibration.
- **Measure radiance** in watts/nm and lumen/nm (see RAD-CAL option below), and **irradiance** in watts/m^2, microwatts/cm^2, lumens/m^2, LUX, moles per second, PAR, Footcandles, Radiant Flux, Luminous Flux, xy Chromaticity, color correlated temperature (CCT), CRI and CQS, +more.
- **Fast turn around:** most systems can be calibrated within 1.5 weeks after receipt of order. Quick CAL service options available.
- **Can be calibrated** with fiber optic accessories:
- **Integrating Sphere** such as IC2 or **cosine receptor** such as or CR2-UV-VIS-NIR, or user supplied.
- **F600um fiber optic cable** for 50um slit or larger
- **F1000um fiber optic cable** for 25um slit
- **Cosine Receptors** can be direct attach no fiber

- **Optional IRRAD-CAL Certificate**



Certificate of Irradiance Calibration - # 60747488

StellarNet Inc., hereby certifies that the spectrometer instrument identified below has been irradiance calibrated, using equipment whose accuracy is traceable to NIST (U.S. National Institute of Standards and Testing) by LI-COR Certificate of Calibration.

Customer:	StellarNet
MODEL:	EPP2000-UVN-SR
SERIAL NUMBER:	060171704
ACCESSORY:	F600-VIS-NIR fiber optic cable (5 meter) with IC2 integrating sphere, or CR2 cosine receptor for 2 separate calibrations.
CERTIFICATE NUMBER:	60747488
DATE ISSUED:	April 13, 2006
VALID:	12 Months

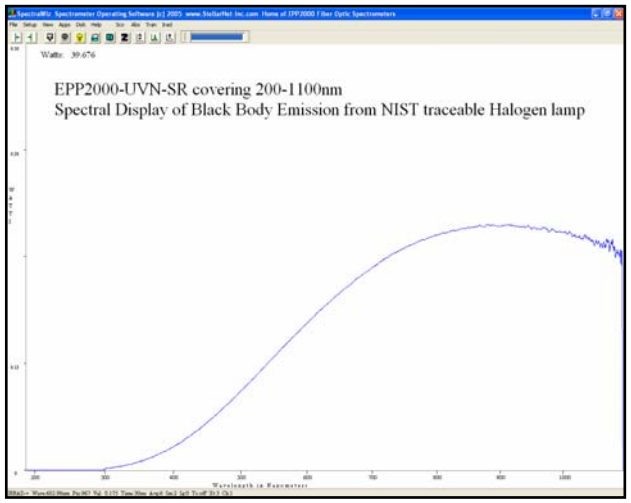
SPECTRAL IRRADIANCE CALIBRATION DETAILS:

Calibration types:	VIS for range 300-1100nm
Cal Equipment:	LI-COR spectral irradiance lamp – model# 1800-02L, serial# ORL956

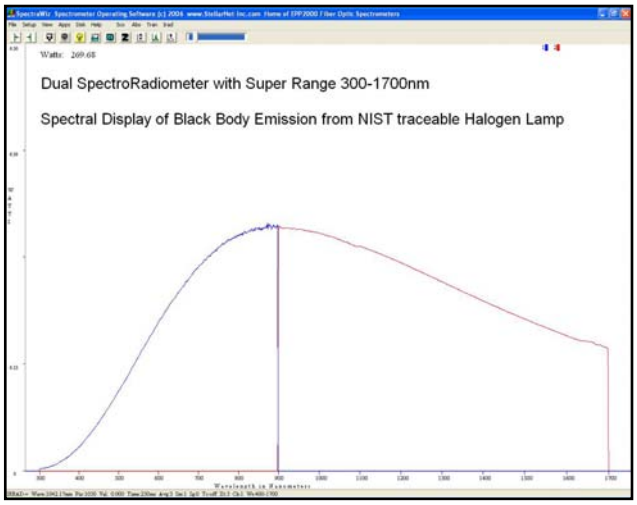
CALIBRATION NOTES:

1. Absolute calibration accuracy +/- 5.0% @ cal detector integration setting.
2. Irradiance calibration file, sw1 icf, was generated by the StellarNet SpectraWiz software.
3. MyCal-UVNSR-06031704-VIS-CR2.exe was generated and saved to diskette.
4. MyCal-UVNSR-06031704-VIS-IC2.exe was generated and saved to diskette.
5. Temperature +25 °± 2 ° Centigrade and Relative Humidity 45% ± 20% R.H.

Calibrated by: Will Pierce



UVN-SR Spectrometer 200-1100nm



Dual DSR Spectrometer 280-1700nm

Item	Description	Price
IRRAD-CAL	VIS-NIR for range 300-1100nm Note: actual spectrometer range can be smaller	$250
IRRAD-CAL-NIR	NIR for range 900-1700nm Note: actual spectrometer range can be smaller	$250
IRRAD-CAL-UV	UV for range 200-600nm Note: actual spectrometer range can be larger	$250
IRRADCAL-UVN	UV-VIS for range 200-850nm Concave grating only, dual UV+VIS calibration	$500
RAD-CAL	*RADiant power cal in Watts/nm for spheres for laser & LED (Lumens/nm)	$250
RAD-CAL-SR	*RADiance cal in Watts/sr/m^2 for Candela (Cd/m^2/nm) - requires CR2-LENS	$250
IRRAD-CAL-DOC	**Optional CAL certificate documents equipment and NIST traceable numbers	$125

* 300-1100nm only **Document must be ordered at the time of calibration