

Calibration Report: Spectroradiometer

s/n: 648

ECN: 1429915

7 July 2000

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SUMMARY

Calibration date: 2 May 2000. Next calibration due: 2 May 2002.

A collection, analysis and calibration of data from an Analytical Spectral Devices, Inc., Full Range FieldSpec Radiometer, has been completed. The calibration was performed by the manufacturer, Analytical Spectral Devices, Inc. These data were collected by Analytical Spectral Devices, Inc., on 2 May 2000.

Model : FR

Serial Number : 648

The instrument response files for each foreoptic are returned on floppy disk from the manufacturer and installed on the computer operating the instrument. The attached plots describe the standards used in this calibration and describe a typical instrument response to the standard stimuli.

Application:

The instrument response files are utilized by the computer operating the instrument at the time of data collection.

Spectroradiometer Certificate of Calibration



ANALYTICAL
SPECTRAL
DEVICES, INC.

Unit and Calibration No.: *FSFR 648/5*

Calibration Date: *05/02/00* Lamp No.: *S802* Panel No: *12137-A*

Initial all applicable entries

Wavelength
 Radiometric

Foreoptics:	Bare Fiber	<u><i>SVK</i></u>	8 degree	<u><i>SVK</i></u>
	1 degree	<u><i>SVK</i></u>	10 degree	<u> </u>
	2 degree	<u> </u>	18 degree	<u><i>SVK</i></u>
	3 degree	<u> </u>	RCR	<u><i>SVK</i></u>
	5 degree	<u><i>SVK</i></u>	UW/RCR	<u> </u>

All calibrations have been performed according to Analytical Spectral Devices' accepted procedures, using verifiable NIST-traceable irradiance, reflectance and wavelength standards.

Calibration data resides on the ASD instrument's controlling computer's hard drive and/or the controlling software system disk. Instrument response files: *NI648_5.RAW*, *11648_5.RAW*, *51648_5.RAW*, *81648_5.RAW*, *181648_5.RAW*, *COS648_5.RAW*

Irradiance Standard Vendor, Lamp number and File Name, used for Irradiance and Radiance calculations: *Optronic Laboratories, Lamp S802, LMP648_5.ILL* (+/- 2.0% relative to NIST scale)

Reflectance Standard Vendor, Standard ID, and File Name, used for Radiance calculations: *Labsphere, Target #12137-A, BSE648_5.REF* (+/- 0.5% relative to NIST Reflectance Standard)

Sum of ASD radiometric error: 2.5%

ASD Certified Calibration Engineer/Technician:

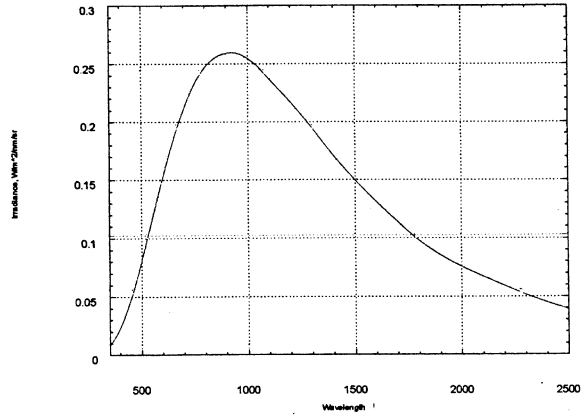
Signature *Sharon V. King* Date *5/02/00*

5335 Sterling Drive
Suite A
Boulder, CO 80301 U.S.A.
Phone: 303.444.6522
Fax: 303.444.6825
Web: www.asdi.com

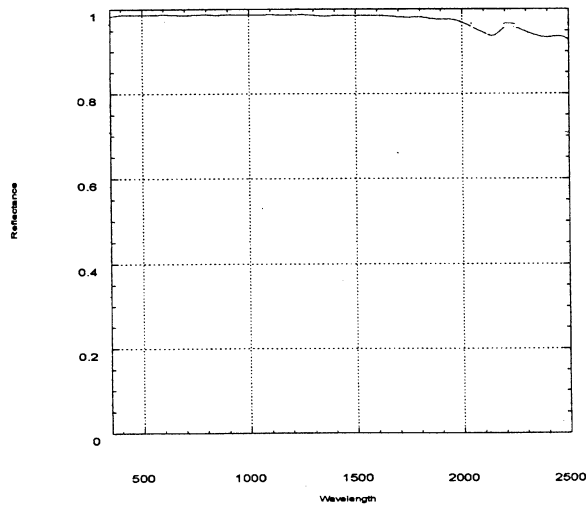


radiance,
 $\text{W/m}^2/\text{nm}/\text{sr}$

ASD Primary Irradiance Standard, Optronic Laboratories Lamp S802



Spectralon(tm) Reflectance Standard, Target #12137-A



NEdL, Unit FSFR 648/5, 5/2/00
NEdL, W/cm²/nm/sr

