



THE EPPLEY LABORATORY, INC.

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Calibration Certificate

Instrument: Precision Spectral Pyranometer, Model PSP, Serial Number 29097F3

Procedure: This pyranometer was compared in Eppley's Integrating Hemisphere according to procedures described in *ISO 9847 Section 5.3.1* and Technical Procedure, TP01 of The Eppley Laboratory, Inc.'s Quality Assurance Manual on Calibrations.

Transfer Standard: Eppley Precision Spectral Pyranometer, Model PSP, Serial Number 18851F3

Results: **Sensitivity:** $S = 8.78 \mu V / W m^{-2}$
Uncertainty: $U_{95} = \pm 0.91\%$ (95% confidence level, $k=2$)
Resistance: 687Ω at $23^{\circ}C$

Date of Test: February 14, 2014

Traceability: This calibration is traceable to the World Radiation Reference (WRR) through comparisons with Eppley's AHF standard self-calibrating cavity pyrhemometers which participated in the Eleventh International Pyrhemometric Comparisons (IPC XI) at Davos, Switzerland in September-October 2010. Unless otherwise stated in the remarks section below or on the Sales Order, the results of this calibration are "AS FOUND / AS LEFT".

Due Date: Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy.

Customer: Oregon State University
Corvallis, OR

Signatures: Debra L. Ginty
In Charge of Test:

Thomas J. Kuk
Reviewed by:

Eppley SO 64023

Date of Certificate February 17, 2014

Remarks: Sensitivity before Repainting Element = $8.62 \mu V / W m^{-2}$