



# THE EPPLEY LABORATORY, INC.

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## Calibration Certificate

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Instrument: Precision Spectral Pyranometer, Model PSP, Serial Number 29099F3

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 21231F3

Results: **Sensitivity:**  $S = 8.03 \mu\text{V} / \text{Wm}^{-2}$   
Uncertainty:  $U_{95} = \pm 0.91\%$  (95% confidence level,  $k=2$ )  
Resistance:  $694 \Omega$  at  $23^\circ\text{C}$

Date of Test: July 10, 2014

Traceability: This calibration is traceable to the World Radiation Reference (WRR) through comparisons with Eppley's AHF standard self-calibrating cavity pyrheliometers which participated in the Eleventh International Pyrheliometric 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. Shultz In Charge of Test: Thomas D. Kirk Reviewed by:

Eppley SO: 64147

Date of Certificate: July 15, 2014

Remarks: Sensitivity before Retrofit =  $8.10 \mu\text{V} / \text{Wm}^{-2}$