



# THE EPPLEY LABORATORY, INC.

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## Calibration Certificate

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Instrument: Precision Spectral Pyranometer, Model PSP, Serial Number 31182F3

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 Standard Precision Pyranometer, Model SPP, Serial Number 37501F3

Results: **Sensitivity:**  $S = 7.68 \mu V / W m^{-2}$   
**Uncertainty:**  $U_{95} = \pm 0.91\%$  (95% confidence level,  $k=2$ )  
**Resistance:**  $690 \Omega$  at  $23^{\circ}C$

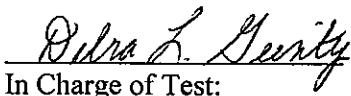
Date of Test: January 10, 2018

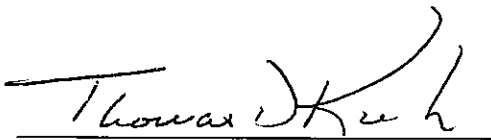
Traceability: This calibration is traceable to the World Radiation Reference (WRR) through comparisons with Eppley's AHF standard self-calibrating cavity pyrheliometers which participated in the Twelfth International Pyrheliometric Comparisons (IPC XII) at Davos, Switzerland in September-October 2015. 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: NOAA / PMEL  
Seattle, WA

Signatures:

  
In Charge of Test:

  
Reviewed by:

Eppley SO: 65119

Date of Certificate January 10, 2018

Remarks: Sensing element repainted. "As Found" calibration was  $8.52 \mu V / W m^{-2}$ .