



THE EPPLEY LABORATORY, INC.

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Calibration Certificate

Instrument: Standard Precision Pyranometer, Model SPP, Serial Number 38213F3

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: $S = 7.98 \mu\text{V} / \text{Wm}^{-2}$

Uncertainty: $U_{95} = \pm 0.91\%$ (95% confidence level, $k=2$)

Resistance: 656Ω at 23°C



Date of Test: February 20, 2018

Traceability: This calibration is traceable to the World Radiation Reference (WRR) through comparisons with Eppley's AHF standard self-calibrating cavity pyrhemimeters which participated in the Twelfth International Pyrhemimetric 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: WHOI
Woods Hole, MA

Signatures:

 In Charge of Test:  Reviewed by:

Eppley SO: 65154

Date of Certificate February 22, 2018

Remarks: