Radiometric (PRR)

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PHOTODETECTOR CALIBRATION CERTIFICATE

International Light certifies that the instrument described below has been compared with laboratory working standards whose calibrations are traceable to the National Institute of Standards and Technology

Rendered To: VALLEY INTERNATIONAL CORP.

Detector: SED033 #4778 Diffuser: R #415

Filter: F #16702 Attenuator:

Spectral Response (half power points): SEE CHART

(PRR) PEAK RADIANCE RESPONSE SENSITIVITY FACTOR

8.81e-4 (A)(Sr)(cm2)(W-1) assuming monochromatic radiance at 600 nm.

OTHER CALIBRATIONS OR REMARKS: Unit will read directly in watts per square centimeter per steradian when used with an IL1700 with the +5V bias off and with the Sensitivity Factor Above.

REFERENCE PLANE: Field of Vision 3 Degrees.

PRIMARY STANDARD: National Institute of Standards and Technology Detector Response
U522 - October 1991 - NIST Test No. 844/249130-92-1
H627 - October 1991 - NIST Test No. 844/249130-92-2

INTERNATIONAL LIGHT PRIMARY TRANSFER STANDARD(S): FEB 1995
IL D.R.I.P. #01,#02,#05,#06,#290,#3275,#139,#1490

LIGHT SOURCE: 1z Tungsten Halogen LAMP OUTPUT: 9.31e-6 W/cm2/sr

INSTRUMENTATION: IL #01 Radiometer PROCEDURE NO: PRR1z

TEMPERATURE: 23 degrees C RELATIVE HUMIDITY: 57 %

CALIBRATED BY: Calibration Technician CHECKED BY: QA Manager, Calibrations

FOR AUTHORIZED COPIES OF THIS CERTIFICATE OR OTHER INFORMATION PLEASE REFER TO THESE NUMBERS. THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF INTERNATIONAL LIGHT, INC.

Date: 090CT96 Certificate #: 610094632 FO # 44311a

IL RECOMMENDS AN ANNUAL CALIBRATION CONFIRMATION INTERVAL. INTERVALS OF CONFIRMATION MAY NEED TO BE SHORTENED DEPENDING ON RESULTS OF PRECEDING CALIBRATIONS.

SAR SED033#4664/F#16563/W#7638 CERTIFICATE #608164401 16AUG96

this is a spectral plot of file '608164401' normalized to 100