



Biospherical Instruments Inc.

Calibration Date: 04/02/25
Model Number: QSP2350
Serial Number: 70281
Operator: FG
Standard Lamp: V-037 (1/3/19)
Operating Voltage Range: 6 to 15VDC

Job No.: R-50764

Note: The QSP2350 output is a voltage that is proportional to the log of the incident irradiance.

To calculate irradiance, use this formula:

$$\text{Irradiance} = \text{Calibration factor} * (10^{\text{Light Signal Voltage}} - 10^{\text{Dark Voltage}})$$

Dry Calibration Factor: $3.34\text{E}+12$ quanta/cm²·sec per volt

$5.55\text{E}-06$ $\mu\text{Einsteins/cm}^2\cdot\text{sec per volt}$

Wet Calibration Factor: $5.90\text{E}+12$ quanta/cm²·sec per volt

$9.80\text{E}-06$ $\mu\text{Einsteins/cm}^2\cdot\text{sec per volt}$

Sensor Test Data and Results

Sensor Supply Current (Dark): 3.3 mA
Sensor Supply Voltage: 6 Volts

Sensor Calibration Signal Voltage: 3.445 Volts
Sensor Dark Voltage: 0.0124 Volts

Lamp Integrated PAR Irradiance: $9.31\text{E}+15$ quanta/cm²·sec
Immersion Coefficient: 0.5664
 0.01546 $\mu\text{Einsteins/cm}^2\cdot\text{sec}$

Note:
Annual calibration is recommended.