



Biospherical Instruments Inc.

Calibration Date: 09/08/25

Model Number: QSP2350

Serial Number: 70777

Operator: FG

Standard Lamp: V-037 (1/3/19)

Operating Voltage Range: 6 to 15VDC

Job No.: R-50858

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:	<u>3.40E+12</u>	quanta/cm ² ·sec per volt	<u>5.65E-06</u>	μEinsteins/cm ² ·sec per volt
Wet Calibration Factor:	<u>6.01E+12</u>	quanta/cm ² ·sec per volt	<u>9.98E-06</u>	μEinsteins/cm ² ·sec per volt

Sensor Test Data and Results

Sensor Supply Current (Dark): 3.3 mA

Sensor Supply Voltage: 6 Volts

Sensor Calibration Signal Voltage: 3.437 Volts

Sensor Dark Voltage: 0.0130 Volts

Lamp Integrated PAR Irradiance: 9.31E+15 quanta/cm²·sec 0.01546 μEinsteins/cm²·sec

Immersion Coefficient: 0.5664

Note:

1. Annual calibration is recommended.

2. Calibration is performed using a Standard of Spectral Irradiance traceable to the National Institute of Standards and Technology (NIST).