



Biospherical Instruments Inc.

Calibration Date: 11/25/25

Job No.: L-20481

Model Number: QSP2350

Serial Number: 70892

Operator: FG

Standard Lamp: V-037 (11/7/25)

Operating Voltage Range: 6 to 15VDC

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: 3.68E+12 quanta/cm²·sec per volt

6.10E-06 μEinsteins/cm²·sec per volt

Wet Calibration Factor: 6.49E+12 quanta/cm²·sec per volt

1.08E-05 μEinsteins/cm²·sec per volt

Sensor Test Data and Results:

Sensor Supply Current (Dark): 3.5 mA

Sensor Supply Voltage: 6 Volts

Sensor Calibration Signal Voltage: 3.402 Volts

Sensor Dark Voltage: 0.2450 Volts

Lamp Integrated PAR Irradiance: 9.27E+15 quanta/cm²·sec

0.01539 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).