



# Biospherical Instruments Inc.

Calibration Date: 11/25/25  
Model Number: QSP2350  
Serial Number: 70892  
Operator: FG  
Standard Lamp: V-037 (11/7/25)  
Operating Voltage Range: 6 to 15VDC

Job No.: L-20481

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/cm<sup>2</sup>·sec per volt      6.10E-06 µEinsteins/cm<sup>2</sup>·sec per volt  
Wet Calibration Factor: 6.49E+12 quanta/cm<sup>2</sup>·sec per volt      1.08E-05 µEinsteins/cm<sup>2</sup>·sec per volt

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## 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/cm<sup>2</sup>·sec      0.01539 µEinsteins/cm<sup>2</sup>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).