



Biospherical Instruments Inc.

Calibration Date: 11/25/25
Model Number: QSP2350
Serial Number: 70891
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: 3.58E+12 quanta/cm²·sec per volt 5.95E-06 µEinsteins/cm²·sec per volt
Wet Calibration Factor: 6.33E+12 quanta/cm²·sec per volt 1.05E-05 µEinsteins/cm²·sec per volt

Sensor Test Data and Results:

Sensor Supply Current (Dark): 3.4 mA
Sensor Supply Voltage: 6 Volts

Sensor Calibration Signal Voltage: 3.413 Volts
Sensor Dark Voltage: 0.3200 Volts

Lamp Integrated PAR Irradiance: 9.27E+15 quanta/cm²·sec 0.01539 µEinsteins/cm²sec
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).