

Calibration Date: 04/10/24

Job No.: R-50556

Model Number: QSP2350

Serial Number: 70513

Operator: TPC

Standard Lamp: V-045(7/21/16)

Operating Voltage Range: 6 to 15 VDC (+)

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

To calculate irradiance, use this formula:

Irradiance = Calibration factor * (10^Light Signal Voltage - 10^Dark Voltage)

Dry Calibration Factor: 3.83E+12 quanta/cm^2·sec per volt 6.36E-06 μEinsteins/cm^2·sec per volt

Wet Calibration Factor: 6.76E+12 quanta/cm^2·sec per volt 1.12E-05 μEinsteins/cm^2·sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.5 mA

Supply Voltage: 6 Volts

Lamp Integrated PAR Irradiance: 9.22E+15 quanta/cm^2·sec 0.01531 μEinsteins/cm^2sec

Immersion Coefficient: 0.566

Table with 9 columns: Nominal Filter OD, Expected Transmission, Calibrated Trans., Sensor Voltage, Expected Voltage, Voltage % Error, Measured Trans., Transmission Error (%), Test Irrad. (quanta/cm^2·sec). Rows include No Filter, 0.3, 0.5, 1, 2, 3, and RG780.

Dark Before: 0.006 Volts
Light - No Filter Hldr.: 3.382 Volts
Dark After - NFH: 0.006 Volts
Average Dark 0.0063 Volts

Notes:

- 1. Annual calibration is recommended.
2) This section is for internal use and for more advanced analysis.