

**Calibration Date:** 02/28/24  
**Model Number:** QSP2350  
**Serial Number:** 70785  
**Operator:** TPC  
**Standard Lamp:** V-045(7/21/16)  
**Operating Voltage Range:** 6 to 15 VDC (+)

**Job No.:** R50515

**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:** 3.81E+12 quanta/cm<sup>2</sup>·sec per volt 6.33E-06 μEinsteins/cm<sup>2</sup>·sec per volt  
**Wet Calibration Factor:** 6.73E+12 quanta/cm<sup>2</sup>·sec per volt 1.12E-05 μEinsteins/cm<sup>2</sup>·sec per volt

**Sensor Test Data and Results<sup>2)</sup>**

**Sensor Supply Current (Dark):** 3.4 mA  
**Supply Voltage:** 6 Volts  
**Lamp Integrated PAR Irradiance:** 9.22E+15 quanta/cm<sup>2</sup>·sec 0.01531 μEinsteins/cm<sup>2</sup>·sec  
**Immersion Coefficient:** 0.566

Nominal Filter OD	Expected Transmission	Calibrated Trans.	Sensor Voltage	Expected Voltage	Voltage % Error	Measured Trans.	Transmission Error (%)	Test Irrad. (quanta/cm <sup>2</sup> ·sec)
No Filter	100%	100.00%	3.384	3.384	0%	100.00%	0.0	9.22E+15
0.3	50%	36.10%	2.933	2.942	0%	35.37%	2.1	3.26E+15
0.5	32%	27.60%	2.819	2.825	0%	27.17%	1.6	2.51E+15
1	10%	9.27%	2.348	2.351	0%	9.17%	1.1	8.45E+14
2	1%	1.11%	1.434	1.429	0%	1.08%	2.7	9.96E+13
3	0.10%	0.05%	0.308	0.112	64%	0.04%	26.0	3.93E+12
RG780	0.00%	0.00%	0.003	0.003	0%	0.00%	-100.0	2.55E+10

**Dark Before:** 0.003 Volts  
**Light - No Filter Hldr.:** 3.385 Volts  
**Dark After - NFH:** 0.003 Volts  
**Average Dark** 0.0029 Volts

**Notes:**

1. Annual calibration is recommended.

2) This section is for internal use and for more advanced analysis.