Calibration Date: 09/30/14 **Job No.:** R12063
Model Number: QSP2300
Serial Number: 70307
Operator: TPC
Standard Lamp: V-033(3/7/12)
Operating Voltage Range: 6 to 15 VDC (+)

Note: The QSP2300 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: **2.64E+12** **quanta/cm²·sec per volt** **4.38E-06** **µEinsteins/cm²·sec per volt**
Wet Calibration Factor: **4.66E+12** **quanta/cm²·sec per volt** **7.74E-06** **µEinsteins/cm²·sec per volt**

Sensor Test Data and Results[2)]

Sensor Supply Current (Dark): 3.4 mA
Supply Voltage: 6 Volts
Lamp Integrated PAR Irradiance: 9.34E+15 quanta/cm²·sec 0.01551 µEinsteins/cm²sec
Immersion Coefficient: 0.566

Nominal Filter OD	Expected Transmission	Calibrated Trans.	Sensor Voltage	Expected Voltage	Voltage % Error	Measured Trans.	Transmission Error (%)	Test Irrad. (quanta/ cm²·sec)
No Filter	100%	100.00%	3.549	3.549	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.107	3.107	0%	36.09%	0.0	3.37E+15
0.5	32%	27.60%	2.992	2.990	0%	27.71%	-0.4	2.59E+15
1	10%	9.27%	2.520	2.516	0%	9.33%	-0.6	8.71E+14
2	1%	1.11%	1.593	1.594	0%	1.08%	3.0	1.01E+14
3	0.10%	0.05%	0.453	0.277	39%	0.05%	4.0	4.85E+12
RG780	0.00%	0.00%	0.009	0.009	0%	0.00%	-100.0	5.53E+10

Dark Before: 0.009 Volts
Light - No Filter Hldr.: 3.549 Volts
Dark After - NFH: 0.009 Volts
Average Dark 0.0090 Volts

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