Calibration Date: 04/18/16 **Job No.:** R12597
Model Number: QSP2300
Serial Number: 70497
Operator: TPC
Standard Lamp: V-035(3/4/15)
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: **3.31E+12** **quanta/cm²·sec per volt** **5.50E-06** **µEinsteins/cm²·sec per volt**
Wet Calibration Factor: **5.84E+12** **quanta/cm²·sec per volt** **9.70E-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: 1.03E+16 quanta/cm²·sec 0.01713 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%	3.494	3.494	0%	100.00%	0.0	1.03E+16
0.3	50%	36.10%	3.058	3.052	0%	36.62%	-1.4	3.78E+15
0.5	32%	27.60%	2.944	2.935	0%	28.13%	-1.9	2.90E+15
1	10%	9.27%	2.475	2.461	1%	9.54%	-2.9	9.85E+14
2	1%	1.11%	1.562	1.539	1%	1.14%	-2.4	1.17E+14
3	0.10%	0.05%	0.436	0.222	49%	0.06%	-3.4	5.72E+12
RG780	0.00%	0.00%	0.002	0.002	-18%	0.00%	-100.0	1.53E+10

Dark Before: 0.002 Volts
Light - No Filter Hldr.: 3.494 Volts
Dark After - NFH: 0.002 Volts
Average Dark 0.0024 Volts

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