Calibration Date: 02/26/15 **Job No.:** R12148
Model Number: QSP2300
Serial Number: 70359
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: 3.31E+12 quanta/cm²·sec per volt 5.49E-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):	3.5	mA		
Supply Voltage:	6	Volts		
Lamp Integrated PAR Irradiance:	9.34E+15	quanta/cm^2·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/ cm^2·sec)
No Filter	100%	100.00%	3.451	3.451	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.012	3.009	0%	36.33%	-0.6	3.39E+15
0.5	32%	27.60%	2.899	2.892	0%	28.03%	-1.5	2.62E+15
1	10%	9.27%	2.428	2.418	0%	9.45%	-1.9	8.82E+14
2	1%	1.11%	1.512	1.496	1%	1.11%	-0.4	1.04E+14
3	0.10%	0.05%	0.337	0.179	47%	0.04%	29.4	3.88E+12
RG780	0.00%	0.00%	0.003	0.003	-1%	0.00%	-100.0	2.45E+10

Dark Before:	0.003	Volts
Light - No Filter Hldr.:	3.451	Volts
Dark After - NFH:	0.003	Volts
Average Dark	0.0032	Volts

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