Calibration Date: 08/18/11 **Job No.:** L11036
Model Number: QSP2300
Serial Number: 70379
Operator: TPC
Standard Lamp: GS-1024(7/22/11)
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: **3.05E+12** **quanta/cm²·sec per volt** **5.06E-06** **µEinsteins/cm²·sec per volt**
Wet Calibration Factor: **5.13E+12** **quanta/cm²·sec per volt** **8.53E-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: 9.27E+15 quanta/cm^2·sec 0.01540 µEinsteins/cm²sec
Immersion Coefficient: 0.594

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%	3.483	3.483	0%	100.00%	0.0	9.27E+15
0.3	50%	36.10%	3.048	3.041	0%	36.71%	-1.7	3.40E+15
0.5	32%	27.60%	2.937	2.924	0%	28.42%	-2.9	2.63E+15
1	10%	9.27%	2.488	2.450	2%	10.08%	-8.0	9.34E+14
2	1%	1.11%	1.607	1.528	5%	1.30%	-14.4	1.20E+14
3	0.10%	0.05%	0.525	0.211	60%	0.08%	-30.3	7.17E+12
RG780	0.00%	0.00%	0.079	0.008	90%	0.01%	-100.0	6.08E+11

Dark Before: 0.008 Volts
Light - No Filter Hldr.: 3.493 Volts
Dark After - NFH: 0.009 Volts
Average Dark 0.0083 Volts

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