Calibration Date: 02/26/15 **Job No.:** R12145
Model Number: QSP2300
Serial Number: 70281
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: 2.98E+12 quanta/cm²·sec per volt 4.95E-06 µEinsteins/cm²·sec per volt
Wet Calibration Factor: 5.26E+12 quanta/cm²·sec per volt 8.73E-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/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%	3.497	3.497	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.058	3.054	0%	36.41%	-0.9	3.40E+15
0.5	32%	27.60%	2.942	2.937	0%	27.85%	-0.9	2.60E+15
1	10%	9.27%	2.470	2.464	0%	9.38%	-1.1	8.76E+14
2	1%	1.11%	1.548	1.542	0%	1.09%	1.5	1.02E+14
3	0.10%	0.05%	0.377	0.224	41%	0.04%	23.7	4.12E+12
RG780	0.00%	0.00%	0.052	0.012	77%	0.00%	-100.0	3.79E+11

Dark Before:	0.012	Volts
Light - No Filter Hldr.:	3.497	Volts
Dark After - NFH:	0.012	Volts
Average Dark	0.0122	Volts

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