Calibration Date: 03/27/09 **Job No.:** R10212
Model Number: QSP2300
Serial Number: 70172
Operator: TPC .
Standard Lamp: BSI-1(8/28/08)
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: 2.70E+12 quanta/cm²·sec per volt 4.49E-06 µEinsteins/cm²·sec per volt
Wet Calibration Factor: 4.55E+12 quanta/cm²·sec per volt 7.56E-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:	9.83E+15	quanta/cm^2·sec	0.01632 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%	3.560	3.560	0%	100.00%	0.0	9.83E+15
0.3	50%	36.10%	3.118	3.118	0%	36.11%	0.0	3.55E+15
0.5	32%	27.60%	3.006	3.001	0%	27.88%	-1.0	2.74E+15
1	10%	9.27%	2.539	2.527	0%	9.49%	-2.3	9.33E+14
2	1%	1.11%	1.627	1.606	1%	1.14%	-2.5	1.12E+14
3	0.10%	0.05%	0.460	0.288	37%	0.05%	4.3	5.10E+12
RG780	0.00%	0.00%	0.010	0.010	0%	0.00%	-100.0	6.41E+10

Dark Before:	0.010	Volts
Light - No Filter Hldr.:	3.562	Volts
Dark After - NFH:	0.010	Volts
Average Dark	0.0102	Volts

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