Calibration Date: 01/30/18 **Job No.:** R13170

Model Number: QSP2300

Serial Number: 70360

Operator: TPC

Standard Lamp: V-041(7/21/16)

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:	4.22E+12	quanta/cm²·sec per volt	7.01E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	7.46E+12	quanta/cm²·sec per volt	1.24E-05	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:	9.73E+15	quanta/cm^2·sec	0.01615	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%	3.363	3.363	0%	100.00%	0.0	9.73E+15
0.3	50%	36.10%	2.922	2.920	0%	36.23%	-0.4	3.52E+15
0.5	32%	27.60%	2.807	2.804	0%	27.79%	-0.7	2.70E+15
1	10%	9.27%	2.332	2.330	0%	9.28%	-0.1	9.03E+14
2	1%	1.11%	1.414	1.408	0%	1.08%	2.5	1.05E+14
3	0.10%	0.05%	0.246	0.090	63%	0.03%	63.0	3.22E+12
RG780	0.00%	0.00%	0.003	0.003	-7%	0.00%	-100.0	2.93E+10

Dark Before:	0.003	Volts
Light - No Filter Hldr.:	3.363	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.