Calibration Date: 01/30/18 **Job No.:** R13169

Model Number: QSP2300
Serial Number: 70547
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:	3.56E+12	quanta/cm²·sec per volt	5.91E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	6.28E+12	quanta/cm²·sec per volt	1.04E-05	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:	9.73E+15	quanta/cm²·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/ cm²·sec)
No Filter	100%	100.00%	3.437	3.437	0%	100.00%	0.0	9.73E+15
0.3	50%	36.10%	3.003	2.995	0%	36.78%	-1.9	3.58E+15
0.5	32%	27.60%	2.889	2.878	0%	28.29%	-2.4	2.75E+15
1	10%	9.27%	2.422	2.404	1%	9.62%	-3.6	9.36E+14
2	1%	1.11%	1.516	1.482	2%	1.16%	-4.5	1.13E+14
3	0.10%	0.05%	0.396	0.165	58%	0.05%	-1.1	5.30E+12
RG780	0.00%	0.00%	0.005	0.006	-14%	0.00%	-100.0	4.12E+10

Dark Before:	0.006	Volts
Light - No Filter Hldr.:	3.438	Volts
Dark After - NFH:	0.006	Volts
Average Dark	0.0057	Volts

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