Calibration Date: 11/02/18 **Job No.:** R-13438

Model Number: QSP2300
Serial Number: 70547
Operator: TPC
Standard Lamp: V-042(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:	3.63E+12	quanta/cm²·sec per volt	6.02E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	6.41E+12	quanta/cm²·sec per volt	1.06E-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:	9.43E+15	quanta/cm^2·sec	0.01566	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%	3.415	3.415	0%	100.00%	0.0	9.43E+15
0.3	50%	36.10%	2.978	2.973	0%	36.51%	-1.1	3.44E+15
0.5	32%	27.60%	2.865	2.856	0%	28.16%	-2.0	2.66E+15
1	10%	9.27%	2.400	2.382	1%	9.61%	-3.6	9.07E+14
2	1%	1.11%	1.495	1.460	2%	1.16%	-4.6	1.10E+14
3	0.10%	0.05%	0.365	0.143	61%	0.05%	6.4	4.78E+12
RG780	0.00%	0.00%	0.006	0.006	1%	0.00%	-100.0	4.88E+10

Dark Before:	0.006	Volts
Light - No Filter Hldr.:	3.415	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.