Calibration Date: 02/28/24 **Job No.:** R50517

Model Number: QSP2300
Serial Number: 70500
Operator: TPC
Standard Lamp: V-045(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:	3.93E+12	quanta/cm²·sec per volt	6.52E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	6.93E+12	quanta/cm²·sec per volt	1.15E-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:	9.22E+15	quanta/cm^2·sec	0.01531	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%	3.371	3.371	0%	100.00%	0.0	9.22E+15
0.3	50%	36.10%	2.931	2.928	0%	36.27%	-0.5	3.34E+15
0.5	32%	27.60%	2.817	2.812	0%	27.91%	-1.1	2.57E+15
1	10%	9.27%	2.345	2.338	0%	9.38%	-1.2	8.65E+14
2	1%	1.11%	1.429	1.416	1%	1.10%	0.8	1.02E+14
3	0.10%	0.05%	0.247	0.098	60%	0.03%	66.4	3.01E+12
RG780	0.00%	0.00%	0.005	0.005	-2%	0.00%	-100.0	4.82E+10

Dark Before:	0.005	Volts
Light - No Filter Hldr.:	3.370	Volts
Dark After - NFH:	0.005	Volts
Average Dark	0.0054	Volts

Notes:

1. Annual calibration is recommended.

2) This section is for internal use and for more advanced analysis.