Calibration Date: 04/07/21 **Job No.:** R50263

Model Number: QSP2300
Serial Number: 70281
Operator: TPC
Standard Lamp: V-042(11/12/20)
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:	2.99E+12	quanta/cm²·sec per volt	4.97E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	5.28E+12	quanta/cm²·sec per volt	8.77E-06	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:	9.43E+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%	3.499	3.499	0%	100.00%	0.0	9.43E+15
0.3	50%	36.10%	3.058	3.057	0%	36.20%	-0.3	3.41E+15
0.5	32%	27.60%	2.944	2.940	0%	27.84%	-0.9	2.63E+15
1	10%	9.27%	2.474	2.466	0%	9.41%	-1.5	8.88E+14
2	1%	1.11%	1.558	1.544	1%	1.11%	-0.2	1.05E+14
3	0.10%	0.05%	0.382	0.227	41%	0.04%	22.0	4.22E+12
RG780	0.00%	0.00%	0.060	0.012	79%	0.00%	-100.0	4.43E+11

Dark Before:	0.012	Volts
Light - No Filter Hldr.:	3.499	Volts
Dark After - NFH:	0.012	Volts
Average Dark	0.0124	Volts

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