Calibration Date: 06/02/20 **Job No.:** R-50030

Model Number: QSP2300

Serial Number: 70500

Operator: TPC

Standard Lamp: V-040(1/3/2019)

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:	3.86E+12	quanta/cm²·sec per volt	6.41E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	6.81E+12	quanta/cm²·sec per volt	1.13E-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:	9.40E+15	quanta/cm^2·sec	0.01561	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%	3.387	3.387	0%	100.00%	0.0	9.40E+15
0.3	50%	36.10%	2.946	2.945	0%	36.20%	-0.3	3.40E+15
0.5	32%	27.60%	2.834	2.828	0%	27.95%	-1.2	2.63E+15
1	10%	9.27%	2.365	2.354	0%	9.47%	-2.1	8.90E+14
2	1%	1.11%	1.447	1.432	1%	1.11%	0.3	1.04E+14
3	0.10%	0.05%	0.288	0.115	60%	0.04%	40.2	3.63E+12
RG780	0.00%	0.00%	0.005	0.005	0%	0.00%	-100.0	4.83E+10

Dark Before:	0.005	Volts
Light - No Filter Hldr.:	3.387	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.