Calibration Date: 06/02/20 **Job No.:** R-50029

Model Number: QSP2300

Serial Number: 70497

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:	3.41E+12	quanta/cm²·sec per volt	5.67E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	6.03E+12	quanta/cm²·sec per volt	1.00E-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/cm²·sec	0.01561	µEinsteins/cm²sec
Immersion Ccefficient:	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%	3.440	3.440	0%	100.00%	0.0	9.40E+15
0.3	50%	36.10%	3.002	2.998	0%	36.45%	-1.0	3.43E+15
0.5	32%	27.60%	2.889	2.881	0%	28.09%	-1.8	2.64E+15
1	10%	9.27%	2.424	2.407	1%	9.61%	-3.5	9.03E+14
2	1%	1.11%	1.509	1.485	2%	1.14%	-2.3	1.07E+14
3	0.10%	0.05%	0.336	0.168	50%	0.04%	26.5	3.99E+12
RG780	0.00%	0.00%	0.002	0.002	-1%	0.00%	-100.0	1.89E+10

Dark Before:	0.002	Volts
Light - No Filter Hldr.:	3.440	Volts
Dark After - NFH:	0.002	Volts
Average Dark	0.0024	Volts

Notes:

1. Annual calibration is recommended.

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