Calibration Date: 06/01/16 **Job No.:** R12601
Model Number: QSP2300
Serial Number: 70547
Operator: TPC
Standard Lamp: V-035(3/4/15)
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: 3.01E+12 quanta/cm²·sec per volt 4.99E-06 µEinsteins/cm²·sec per volt
Wet Calibration Factor: 5.31E+12 quanta/cm²·sec per volt 8.82E-06 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: 1.03E+16 quanta/cm²·sec 0.01713 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/ cm²·sec)
No Filter	100%	100.00%	3.536	3.536	0%	100.00%	0.0	1.03E+16
0.3	50%	36.10%	3.098	3.093	0%	36.47%	-1.0	3.76E+15
0.5	32%	27.60%	2.988	2.977	0%	28.30%	-2.5	2.92E+15
1	10%	9.27%	2.523	2.503	1%	9.68%	-4.2	9.99E+14
2	1%	1.11%	1.613	1.581	2%	1.17%	-4.8	1.20E+14
3	0.10%	0.05%	0.489	0.263	46%	0.06%	-11.5	6.26E+12
RG780	0.00%	0.00%	0.006	0.006	-2%	0.00%	-100.0	4.04E+10

Dark Before: 0.006 Volts
Light - No Filter Hldr.: 3.536 Volts
Dark After - NFH: 0.006 Volts
Average Dark 0.0059 Volts

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