Calibration Date: 01/11/17 **Job No.:** R12829
Model Number: QSP2300
Serial Number: 70281
Operator: TPC
Standard Lamp: 91453(7/20/16)
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: **3.01E+12** **quanta/cm²·sec per volt** **5.00E-06** **µEinsteins/cm²·sec per volt**
Wet Calibration Factor: **5.32E+12** **quanta/cm²·sec per volt** **8.83E-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: 8.38E+15 quanta/cm²·sec 0.01391 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%	3.445	3.445	0%	100.00%	0.0	8.38E+15
0.3	50%	36.10%	3.004	3.002	0%	36.22%	-0.3	3.03E+15
0.5	32%	27.60%	2.892	2.886	0%	27.96%	-1.3	2.34E+15
1	10%	9.27%	2.421	2.412	0%	9.43%	-1.7	7.90E+14
2	1%	1.11%	1.540	1.490	3%	1.21%	-8.2	1.01E+14
3	0.10%	0.05%	0.342	0.172	50%	0.04%	27.1	3.61E+12
RG780	0.00%	0.00%	0.013	0.012	6%	0.00%	-100.0	9.15E+10

Dark Before: 0.012 Volts
Light - No Filter Hldr.: 3.445 Volts
Dark After - NFH: 0.012 Volts
Average Dark 0.0122 Volts

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