

Calibration Date: 06/01/16
Model Number: QSP2300
Serial Number: 70546
Operator: TPC
Standard Lamp: V-035(3/4/15)
Operating Voltage Range: 6 to 15 VDC (+)

Job No.: R12600

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: 2.73E+12 quanta/cm²·sec per volt 4.53E-06 μEinsteins/cm²·sec per volt

Wet Calibration Factor: 4.82E+12 quanta/cm²·sec per volt 8.00E-06 μEinsteins/cm²·sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.4 mA
Supply Voltage: 6 Volts

Lamp Integrated PAR Irradiance: 1.03E+16 quanta/cm²·sec 0.01713 μEinsteins/cm²·sec

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%	3.578	3.578	0%	100.00%	0.0	1.03E+16
0.3	50%	36.10%	3.136	3.135	0%	36.12%	-0.1	3.73E+15
0.5	32%	27.60%	3.021	3.018	0%	27.75%	-0.5	2.86E+15
1	10%	9.27%	2.553	2.545	0%	9.43%	-1.7	9.73E+14
2	1%	1.11%	1.635	1.623	1%	1.11%	-0.4	1.15E+14
3	0.10%	0.05%	0.461	0.305	34%	0.05%	8.0	5.16E+12
RG780	0.00%	0.00%	0.010	0.009	2%	0.00%	-100.0	6.04E+10

Dark Before: 0.009 Volts

Light - No Filter Hldr.: 3.577 Volts

Dark After - NFH: 0.010 Volts

Average Dark: 0.0093 Volts

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