

Calibration Date: 01/15/15
Model Number: QSP2300
Serial Number: 70411
Operator: TPC
Standard Lamp: V-033(3/7/12)
Operating Voltage Range: 6 to 15 VDC (+)

Job No.: R12130

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: 2.88E+12 quanta/cm²·sec per volt 4.79E-06 μEinsteins/cm²·sec per volt
Wet Calibration Factor: 5.09E+12 quanta/cm²·sec per volt 8.46E-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:		9.34E+15	quanta/cm ² ·sec					
Immersion Coefficient:		0.566	μEinsteins/cm ² sec					
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%	3.511	3.511	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.075	3.068	0%	36.65%	-1.5	3.42E+15
0.5	32%	27.60%	2.961	2.952	0%	28.19%	-2.1	2.63E+15
1	10%	9.27%	2.497	2.478	1%	9.66%	-4.1	9.03E+14
2	1%	1.11%	1.585	1.556	2%	1.16%	-4.0	1.08E+14
3	0.10%	0.05%	0.431	0.238	45%	0.05%	2.4	4.90E+12
RG780	0.00%	0.00%	0.004	0.004	-1%	0.00%	-100.0	2.53E+10
Dark Before:		0.004	Volts					
Light - No Filter Hldr.:		3.511	Volts					
Dark After - NFH:		0.004	Volts					
Average Dark		0.0038	Volts					