Calibration Date:	02/28/24				**Job No.:** R50514
Model Number:	QSP2300				
Serial Number:	70360				
Operator:	TPC				
Standard Lamp:	V-045(7/21/16)				
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:	4.31E+12	quanta/cm²·sec per volt	7.15E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	7.60E+12	quanta/cm²·sec per volt	1.26E-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:	9.22E+15	quanta/cm^2·sec	0.01531	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/ cm^2·sec)
No Filter	100%	100.00%	3.331	3.331	0%	100.00%	0.0	9.22E+15
0.3	50%	36.10%	2.889	2.888	0%	36.10%	0.0	3.33E+15
0.5	32%	27.60%	2.777	2.772	0%	27.89%	-1.0	2.57E+15
1	10%	9.27%	2.301	2.298	0%	9.29%	-0.2	8.57E+14
2	1%	1.11%	1.384	1.376	1%	1.08%	2.6	9.98E+13
3	0.10%	0.05%	0.204	0.058	71%	0.03%	93.2	2.58E+12
RG780	0.00%	0.00%	0.003	0.003	-2%	0.00%	-100.0	3.18E+10

Dark Before:	0.003	Volts
Light - No Filter Hldr.:	3.331	Volts
Dark After - NFH:	0.003	Volts
Average Dark	0.0033	Volts

Notes:

1. Annual calibration is recommended.

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