**Calibration Date:** 

01/30/18

Model Number: QSP2300

Serial Number:

70295

Operator:

**TPC** 

Standard Lamp: V-041(7/21/16)

Operating Voltage Range:

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: 3.59E+12 quanta/cm<sup>2</sup>·sec per volt

5.96E-06

μEinsteins/cm²-sec per volt

R13168

Wet Calibration Factor: 6.34E+12 quanta/cm<sup>2</sup>·sec per volt

1.05E-05

μEinsteins/cm²-sec per volt

Job No.:

Sensor Test Data and Results<sup>2)</sup>

Sensor Supply Current (Dark):

3.4 mA.

Supply Voltage:

Volts

Lamp Integrated PAR Irradiance:

quanta/cm2-sec 9.73E+15

0.01615

µEinsteins/cm²sec

Immersion Coefficient:

0.566

6

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%	3.433	3.433	0%	100.00%	0.0	9.73E+15
0.3	50%	36.10%	2.994	2.991	0%	36.33%	-0.6	3.53E+15
0.5	32%	27.60%	2.877	2.874	0%	27.77%	-0.6	2.70E+15
1	10%	9.27%	2.408	2.400	0%	9.41%	-1.5	9.15E+14
2	1%	1.11%	1.489	1.478	1%	1.10%	0.8	1.07E+14
3	0.10%	0.05%	0.376	0.161	57%	0.05%	5.5	4.94E+12
RG780	0.00%	0.00%	0.098	0.002	98%	0.01%	-100 0	9 09F+11

Dark Before:

0.002

Light - No Filter Hldr.:

3.433

Volts Volts

Dark After - NFH:

0.002

Volts

Average Dark

0.0024

Volts

Notes:

Annual calibration is recommended.

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