Calibration Date:

06/22/10

Job No.:

R10694

Test Irrad

1.73E+10

Model Number:

QSP2300

Serial Number:

70171

TPC

Operator: Standard Lamp: GS-1024(8/28/08)

Operating Voltage Range:

6

to

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)

15

Dry Calibration Factor: 3.41E+12 quanta/cm²-sec per volt

Wet Calibration Factor: 5.75E+12 quanta/cm²-sec per volt

5.67E-06 µEinsteins/cm²·sec per volt

-100.0

9.54E-06 µEinsteins/cm²·sec per volt

Sensor Test Data and Results2)

Sensor Supply Current (Dark):

3.3 mΑ

Supply Voltage:

Volts 6

Lamp Integrated PAR Irradiance: 9.27E+15 quanta/cm²-sec

0.01540 μEinsteins/cm²sec

Immersion Coefficient:

0.00%

0.594

0.002

Nominal Filter OD	Expected Transmission	Calibrated Trans.	Sensor Voltage	Expected Voltage	Voltage % Error	Measured Trans.	Transmission Error (%)	(quanta/ cm ² ·sec)
No Filter	100%	100.00%	3.434	3.434	0%	100.00%	0.0	9.27E+15
0.3	50%	36.10%	2.996	2.992	0%	36.45%	-1.0	3.38E+15
0.5	32%	27.60%	2.883	2.875	0%	28.09%	-1.8	2.60E+15
1	10%	9.27%	2.425	2.401	1%	9.76%	-5.0	9.05E+14
2	1%	1.11%	1.521	1.479	3%	1.19%	-6.3	1.10E+14
3	0.10%	0.05%	0.400	0.162	60%	0.06%	-3.8	5 16F+12

0.002

1%

0.00%

Dark Before: 0.002 Volts Light - No Filter Hldr.: 3.433 Volts Dark After - NFH: 0.002 Volts Average Dark 0.0022 Volts

0.00%

RG780

CW= 954 0-6 10482180293.0

Annual calibration is recommended.

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