

Calibration Date: 06/15/09

Job No.: R10297

Model Number: QCP2300-HP

Serial Number: 70136

Operator: TPC

Standard Lamp: GS-1019(8/28/08)

Operating Voltage Range: 6 to 15 VDC (+)

Note: The QCP2300-HP 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: 3.03E+12 quanta/cm²-sec per volt 5.03E-06 μEinsteins/cm²-sec per volt

Wet Calibration Factor: 3.19E+12 quanta/cm²-sec per volt 5.30E-06 μEinsteins/cm²-sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.6 mA

Supply Voltage: 6 Volts

Lamp Integrated PAR Irradiance: 9.09E+15 quanta/cm²·sec 0.01509 μEinsteins/cm²sec

Immersion Coefficient: 0.95

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%	3.477	3.477	0%	100.00%	0.0	9.09E+15
0.3	50%	36.10%	3.040	3.035	0%	36.54%	-1.2	3.32E+15
0.5	32%	27.60%	2.928	2.918	0%	28.21%	-2.2	2.56E+15
1	10%	9.27%	2.461	2.444	1%	9.61%	-3.5	8.73E+14
2	1%	1.11%	1.548	1.522	2%	1.14%	-3.0	1.04E+14
3	0.10%	0.05%	0.386	0.205	47%	0.05%	12.3	4.34E+12
RG780	0.00%	0.00%	0.003	0.003	0%	0.00%	-100.0	1.89E+10

Dark Before: 0.003 Volts

Light - No Filter Hldr.: 3.477 Volts

Dark After - NFH: 0.003 Volts

Average Dark 0.0027 Volts

Notes:

1. Annual calibration is recommended.

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