Calibration Date:

10/19/12

Model Number:

OCP2300-HP

Serial Number:

Operator:

TPC

Standard Lamp: V-(30(3/7/12)

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: 3.24E+12 quanta/cm²·sec per volt

5.37E-06 μEinsteins/cm²·sec per volt

R11431

Wet Calibration Factor:

3.48E+12 quanta/cm²·sec per volt

5.77E-06 µEinsteins/cm²·sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark):

mA

Supply Voltage:

Volts

Lamp Integrated PAR Irradiance:

quanta/cm²·sec

0.01632

μEinsteins/cm²sec

Job No .:

Immersion Coefficient:

9.83E+15

0.931

| 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% | 3.483 | 3.483 | 0% | 100.00% | 0.0 | 9.83E+15 |
| 0.3 | 50% | 36.10% | 3.045 | 3.040 | 0%. | 36.45% | -1.0 | 3.58E+15 |
| 0.5 | 32% | 27.60% | 2.934 | 2.923 | 0% | 28.26% | -2.3 | 2.78E+15 |
| 1 | 10% | 9.27% | 2.462 | 2.450 | 1% | 9.51% | -2.5 | 9.34E+14 |
| 2 | 1% | 1.11% | 1.547 | 1.528 | 1% | 1.13% | -1.5 | 1.11E+14 |
| 3 | 0.10% | 0.05% | 0.383 | 0.210 | 45% | 0.05% | 15.1 | 4.58E+12 |
| RG780 | 0.00% | 0.00% | 0.003 | 0.003 | 0% | 0.00% | -100.0 | 2.03E+10 |

Dark Before:

Light - No Filter Hldr.:

Volts

3.483

Volts

Dark After - NFH:

Volts

Average Dark

Volts

0.0027

Notes:

^{1.} Annual calibration is recommended.

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