05/30/23 Calibration Date:

R50937

Job No.:

QSP2300 70547 Model Number: Serial Number:

TPC Operator:

Standard Lamp: V-043(7/24/19)

VDC (+) 2 Operating Voltage Range: 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)

5.90E-06 quanta/cm2·sec per volt quanta/cm2·sec per volt 3.55E+12 6.27E+12 Dry Calibration Factor: Wet Calibration Factor:

µEinsteins/cm²·sec per volt uEinsteins/cm²-sec per volt 1.04E-05

Sensor Test Data and Results2)

ШĄ Sensor Supply Current (Dark): Volts Supply Voltage:

0.01605 quanta/cm²·sec 9.66E+15 0.566 Lamp Integrated PAR Irradiance: Immersion Coefficient:

µEinsteins/cm²sec

9.66E+15 **Test Irrad** (quanta/ cm²·sec) **Transmission** Error (%) 0.0 Measured Trans. Voltage % Expected Voltage Voltage Sensor Calibrated Trans. Transmission Expected Filter OD Nominal

100.00% 28.20% 9.58% 36.51% 0.05% 1.16% 2% 55% -2% %0 %0 %0 1% 3.435 2.993 2.876 2.402 1.480 0.163 3.435 2.998 2.886 2.418 1.514 0.358 0.006 100.00% 27.60% 36.10% 9.27% 1.11% 0.05% 0.00% 100% 0.10% 20% 32% 10% 1% No Filter 0.3

3.53E+15 2.72E+15 9.26E+14 1.12E+14

<u>1.</u>

-2.1

-3.2 -4.5 4.69E+10

4.55E+12

Volts Volts Volts Volts 0.0058 0.006 3.435 0.006 Light - No Filter Hldr.: Dark After - NFH: Dark Before:

Average Dark

^{1.} Annual calibration is recommended.

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