**Calibration Date:** 08/06/20 **Job No.:** L20184

Model Number: QSP2350

Serial Number: 70785

Operator: TPC .

Standard Lamp: V-040(1/3/2019)

Operating Voltage Range: 6 to 15 VDC (+)

Note: The QSP2350 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: | 3.81E+12 | quanta/cm²·sec per volt | 6.33E-06 | µEinsteins/cm²·sec per volt |
| Wet Calibration Factor: | 6.73E+12 | quanta/cm²·sec per volt | 1.12E-05 | µEinsteins/cm²·sec per volt |

Sensor Test Data and Results[2)]

| | | | | |
|---|---|---|---|---|
| Sensor Supply Current (Dark): | 3.4 | mA | | |
| Supply Voltage: | 6 | Volts | | |
| Lamp Integrated PAR Irradiance: | 9.40E+15 | quanta/cm²·sec | 0.01561 | µEinsteins/cm²sec |
| Immersion Coefficient: | 0.566 | | | |

| 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% | 3.392 | 3.392 | 0% | 100.00% | 0.0 | 9.40E+15 |
| 0.3 | 50% | 36.10% | 2.943 | 2.950 | 0% | 35.50% | 1.7 | 3.34E+15 |
| 0.5 | 32% | 27.60% | 2.831 | 2.833 | 0% | 27.45% | 0.5 | 2.58E+15 |
| 1 | 10% | 9.27% | 2.357 | 2.359 | 0% | 9.19% | 0.9 | 8.64E+14 |
| 2 | 1% | 1.11% | 1.437 | 1.437 | 0% | 1.07% | 3.9 | 1.00E+14 |
| 3 | 0.10% | 0.05% | 0.251 | 0.120 | 52% | 0.03% | 69.7 | 2.98E+12 |
| RG780 | 0.00% | 0.00% | 0.003 | 0.003 | 0% | 0.00% | -100.0 | 2.56E+10 |

| | | |
|---|---|---|
| Dark Before: | 0.003 | Volts |
| Light - No Filter Hldr.: | 3.392 | Volts |
| Dark After - NFH: | 0.003 | Volts |
| Average Dark | 0.0029 | Volts |

Notes:

1. Annual calibration is recommended.

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