Calibration Date: 08/06/20 **Job No.:** L20183

Model Number: QSP2350 Serial Number: 70784 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: 3.78E+12 quanta/cm²-sec per volt
Wet Calibration Factor: 6.67E+12 quanta/cm²-sec per volt
1.11E-05 μEinsteins/cm²-sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.4 mA

Supply Voltage: 6 Volts

Lamp Integrated PAR Irradiance: 9.40E+15 quanta/cm²-sec 0.01561 μEinsteins/cm²-sec

Immersion Coefficient: 0.566

								Test Irrad.
Nominal	Expected	Calibrated	Sensor	Expected	Voltage %	Measured	Transmission	(quanta/
Filter OD	Transmission	Trans.	Voltage	Voltage	Error	Trans.	Error (%)	cm²⋅sec)
No Filter	100%	100.00%	3.396	3.396	0%	100.00%	0.0	9.40E+15
0.3	50%	36.10%	2.948	2.954	0%	35.62%	1.4	3.35E+15
0.5	32%	27.60%	2.836	2.837	0%	27.49%	0.4	2.58E+15
1	10%	9.27%	2.358	2.363	0%	9.12%	1.7	8.57E+14
2	1%	1.11%	1.427	1.441	-1%	1.03%	7.4	9.72E+13
3	0.10%	0.05%	0.210	0.124	41%	0.02%	121.0	2.35E+12
RG780	0.00%	0.00%	0.200	0.009	96%	0.02%	-100.0	2.21E+12

Dark Before: 0.009 Volts
Light - No Filter Hldr.: 3.395 Volts
Dark After - NFH: 0.009 Volts
Average Dark 0.0089 Volts

Notes:

^{1.} Annual calibration is recommended.

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