Calibration Date: 06/07/23 **Job No.:** R50976

Model Number: QSP2350 PAR

Serial Number: 70709

Operator: TPC

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

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:	4.14E+12	quanta/cm²·sec per volt	6.88E-06	µEinsteins/cm²·sec per volt
Wet Calibration Factor:	7.32E+12	quanta/cm²·sec per volt	1.21E-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:	9.66E+15	quanta/cm²·sec	0.01605	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%	3.368	3.368	0%	100.00%	0.0	9.66E+15
0.3	50%	36.10%	2.927	2.926	0%	36.18%	-0.2	3.50E+15
0.5	32%	27.60%	2.814	2.809	0%	27.87%	-1.0	2.69E+15
1	10%	9.27%	2.350	2.335	1%	9.55%	-2.9	9.23E+14
2	1%	1.11%	1.445	1.413	2%	1.15%	-3.6	1.11E+14
3	0.10%	0.05%	0.346	0.096	72%	0.05%	3.5	5.05E+12
RG780	0.00%	0.00%	0.258	0.007	97%	0.03%	100.0	3.36E+12

Dark Before:	0.007	Volts
Light - No Filter Hldr.:	3.368	Volts
Dark After - NFH:	0.007	Volts
Average Dark	0.0065	Volts

A = 1.0
B = 0.0
Calibration constant = 8264462810 = 8.2645 e+9
offset = -0.12282460
multiplier = 1.0

Notes:

1. Annual calibration is recommended.
2) This section is for internal use and for more advanced analysis.