

# Biospherical Instruments Inc.

## CALIBRATION CERTIFICATE

Calibration Date 4/10/2024 ↙  
Model Number QSR2200 ↙  
Serial Number 20121 ↙  
Operator TPC  
Standard Lamp V-045(7/21/16)  
Probe Excitation Voltage Range: 6 to 18 VDC(+)  
Output Polarity: POSITIVE

### Probe Conditions at Calibration(in air):

Calibration Voltage: 6 VDC(+)  
Probe Current: 3.4 mA

### Probe Output Voltage:

Probe Illuminated 102.33 mV  
Probe Dark 1.09 mV  
Probe Net Response 101.24 mV ↙  
RG780 1.64 mV

### Corrected Lamp Output:

Output In Air (same condition as calibration):

9.220E+15 quanta/cm<sup>2</sup>sec  
0.015310 uE/cm<sup>2</sup>sec ↙

### Calibration Scale Factor:

(To calculate irradiance, divide the net voltage reading in Volts by this value.)

Dry: 1.0981E-17 V/(quanta/cm<sup>2</sup>sec)  
6.6126E+00 V/(uE/cm<sup>2</sup>sec)

### Notes:

1. Annual calibration is recommended.
2. Calibration is performed using a Standard of Spectral Irradiance traceable to the National Institute of Standards and Technology (NIST).
3. The collector should be cleaned frequently with alcohol.
4. Calibration was performed with customer cable, when available.