

# Biospherical Instruments Inc.

## CALIBRATION CERTIFICATE

Calibration Date 6/6/2008  
Model Number QSR-2200  
Serial Number 20286  
Operator TPC  
Standard Lamp 91537(10/25/2006)  
Probe Excitation Voltage Range: 6 to 18 VDC(+)  
Output Polarity: Positive

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

Calibration Voltage: 6 VDC(+)  
Probe Current: 4.0 mA

### Probe Output Voltage:

Probe Illuminated 91.9 mV  
Probe Dark 1.5 mV  
Probe Net Response 90.4 mV  
RG780 1.9 mV

### Corrected Lamp Output:

Output In Air (same condition as calibration):

8.83E+15 quanta/cm<sup>2</sup>sec  
0.01467 uE/cm<sup>2</sup>sec

### Calibration Scale Factor:

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

Dry: 1.0236E-17 V/(quanta/cm<sup>2</sup>sec)  
6.1639E+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.