# Biospherical Instruments Inc.

### **CALIBRATION CERTIFICATE**

Calibration Date	01/17/14				
Model Number	QSR2150	Firmware Version		v 2.06	
Serial Number	50173				
Operator	TPC				
Standard Lamp	V-032(3/7/12)				
Sensor Operating Voltage Range:		6	to	15	VDC (+)
Output Polarity:	Positive				

### Sensor Output Voltage:

 Sensor Illuminated
 106.3 mV

 Sensor Dark
 10.3 mV

 Sensor Net Response
 96.0 mV

 RG780
 10.3 mV

### Corrected Lamp Output:

Output In Air (same condition as calibration):

1.538E-02 uE/cm²sec 9.264E+15 Quanta/cm²sec

## Calibration Scale Factor:

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

6.240E+00 Volts/(uE/cm²sec)

6.240E-04 Volts/(uE/m²sec)

#### 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).
- To approximate the sensor's saturating irradiance, multiply the calibration factor by the sensor power supply voltage, minus one volt.
- 4. The collector should be cleaned frequently with alcohol.