

Biospherical Instruments Inc.

CALIBRATION CERTIFICATE

Calibration Date 4/14/2008
Model Number QSR-2240A with top on
Serial Number 16500
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: 3.9 mA

Probe Output Voltage:

Probe Illuminated 90.6 mV
Probe Dark 2.0 mV
Probe Net Response 88.7 mV
RG780 2.6 mV

Corrected Lamp Output:

Output In Air (same condition as calibration):

8.83E+15 quanta/cm²sec
0.01467 uE/cm²sec

Calibration Scale Factor:

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

Dry: 1.0039E-17 VI/(quanta/cm²sec)
6.0452E+00 VI/(uE/cm²sec)

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.

$$(.01467 * 10,000) \div .0887 = 1653.8895$$