## **Biospherical Instruments Inc.**

CALIBRATION CERTIFICATE

	Calibration Date 02/08/19					
	Iodel Number QSR2150A			Firmware '	Version	v 2.06
Serial Nun	nber -	50173				
Operator		TPC	<b>`</b>			
Standard Lamp V-042(1/3/19)			to	15		
Sensor Operating Voltage Range: 6 Output Polarity: Positive			to	15	VDC (+)	
Output Po	arity:	Positive				
	W =B	1 sec average	ges			
				2		
Sensor Output Voltage:						
	Sensor Illu	minated	127.8	mV		
	Sensor Dark 10.3			mV		
	Sensor Net Response 117.5			mV		
	RG780		10.3	mV		
Corrected Lamp Output:						
Output In Air (same condition as calibration):						
	1.561E-02 uE/cm <sup>2</sup> sec					
Output Corrected for Immersion in Water: Using Immersion Coefficient of:						
		2.756E-02	uE/cm <sup>2</sup> sec	)	0.5664	(Collector Type: SC-3)
Calibration	Casia East	lor:				
Calibration Scale Factor:						
(To calculate irradiance, divide the net voltage reading in Volts by this value.) Dry: 7.529E+00 Volts/( <b>uE/cm<sup>2</sup>sec</b> )						
	Dry:					
	Wet:	4.264E+00				
	Dry:	7.529E-04				
	Wet:	4.264E-04	Volts/(uE/	m²sec)		
Notes:						
1. Annual calibration is recommended.						
<ol> <li>Calibration is performed using a Standard of Spectral Irradiance traceable to the National Institute of Standards and Technology (NIST).</li> </ol>						

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.