

CERTIFICATE of CALIBRATION for LI-COR SENSOR

Underwater Quantum Sensor
Model Number: LI-192

Serial Number: UWQ6011

Calibration Date: **December 16, 2009**
Manufacture Date: **June 02, 2000**

Calibration Constants:

Output (in-air): 4.85 microamps per 1000 $\mu\text{mol s}^{-1} \text{m}^{-2}$
Output (in-water): 3.67 microamps per 1000 $\mu\text{mol s}^{-1} \text{m}^{-2}$

For use with LI-COR handheld meters:

Multiplier (in-air): -206.31 $\mu\text{mol s}^{-1} \text{m}^{-2}$ per microamp
Multiplier (in-water): -272.33 $\mu\text{mol s}^{-1} \text{m}^{-2}$ per microamp

For use with LI-COR 2291 (1210 ohm) Millivolt Adapter:

Multiplier (in-air): -170.51 $\mu\text{mol s}^{-1} \text{m}^{-2}$ per millivolt
Multiplier (in-water): -225.07 $\mu\text{mol s}^{-1} \text{m}^{-2}$ per millivolt

IMPORTANT: Read the appropriate instruction manual (<http://www.licor.com/USM>) before using this sensor.

IMPORTANT: It is recommended that sensors be recalibrated every two years.

Calibration Technician: Cameron O'Quinn

Calibration standard used: Working standard lamp 810F.

Calibration traceable to the National Institute of Standards and Technologies (NIST) through NIST-calibration lamp number F-226.
(NBS Test No. 534/237689-86)

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