

CERTIFICATE of CALIBRATION for LI-COR SENSOR

Underwater Quantum Sensor

Model Number: LI-192

Serial Number: UWQ6011

Calibration Date: **November 25, 2014**

Manufacture Date: **June 02, 2000**

Calibration Constants:

Output (in-air): **4.79** microamps per 1000 $\mu\text{mol s}^{-1} \text{m}^{-2}$

Output (in-water): **3.63** microamps per 1000 $\mu\text{mol s}^{-1} \text{m}^{-2}$

For use with LI-COR handheld meters:

Multiplier (in-air): **-208.75** $\mu\text{mol s}^{-1} \text{m}^{-2}$ per microamp

Multiplier (in-water): **-275.55** $\mu\text{mol s}^{-1} \text{m}^{-2}$ per microamp

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

Multiplier (in-air): **-172.52** $\mu\text{mol s}^{-1} \text{m}^{-2}$ per millivolt

Multiplier (in-water): **-227.73** $\mu\text{mol s}^{-1} \text{m}^{-2}$ 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 after field deployment.

Calibration Technician: *Cameron O'Connell*

Calibration standard used: Working standard lamp 1244A.

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

LI-COR[®]

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Manual: <http://www.licor.com/USM>