

# CERTIFICATE of CALIBRATION

## for LI-COR SENSOR

Quantum Sensor  
Model Number: LI-190/R

Serial Number: **Q27348**

Calibration Date: **November 23, 1999**  
Manufacture Date: **October 04, 1999**

### Calibration Constant:

---

Output: **6.34** microamps per 1000  $\mu\text{mol s}^{-1} \text{m}^{-2}$

### For use with LI-COR handheld meters and loggers:

---

Multiplier: **-157.73**  $\mu\text{mol s}^{-1} \text{m}^{-2}$  per microamp

### If this is an LI-190R-BL (3-wire bare leads):

---

Multiplier: **157.73**  $\mu\text{mol s}^{-1} \text{m}^{-2}$  per microamp

### For use with LI-COR 2290 (604 ohm) Millivolt Adapter:

---

Multiplier: **-261.14**  $\mu\text{mol s}^{-1} \text{m}^{-2}$  per millivolt

### If this is an SL or SMV sensor:

---

Multiplier: **-200.0**  $\mu\text{mol s}^{-1} \text{m}^{-2}$  per millivolt

**IMPORTANT:** Read the appropriate instruction manual ([www.licor.com/Quantum-manual](http://www.licor.com/Quantum-manual)) before using this sensor.

**IMPORTANT:** It is recommended that sensors be recalibrated every two years after field deployment.

Calibration Technician: Aaron Deschane

Calibration standard used: Working standard lamp 797C.

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 Biosciences, Global Headquarters • 4647 Superior Street • Lincoln, NE 68504 USA  
Phone: +1-402-467-3576 • Fax: +1-402-467-2819 • Toll-free: 800-447-3576 (USA & Canada)  
[envsales@licor.com](mailto:envsales@licor.com) • [envsupport@licor.com](mailto:envsupport@licor.com) • [www.licor.com](http://www.licor.com)  
Manual: [www.licor.com/Quantum-manual](http://www.licor.com/Quantum-manual)