

CALIBRATION CERTIFICATE*Recd 21 Aug 01**TN***QUANTUM SENSOR**

Calibration date : 26-juli-2001

Calibrated by : G. Lindner

Quantum sensor, type : **PAR LITE**

Serial no : 010161

Sensitivity ($\pm 2\%$) : 5.27 $\mu\text{V}/\mu\text{mol}/\text{s}\cdot\text{m}^2$
in solar radiation at airmass 1.5

Impedance : 240 Ohm

Calibration procedure : Exact interchange of test PAR LITE and reference
PAR LITE in a horizontal parallel beam from a Xenonlamp.
Photosynthetic photon flux density approx. 400 $\mu\text{mol}/\text{s}\cdot\text{m}^2$.
Instrument temperature approx. 25° C.

Hierarchy of traceability : The reference PAR LITE is calibrated against a standard of
known illuminance, the photometric standard lamp of Osram type
Wi 41/G with color temperature of 2856 K, which on his tum is
calibrated yearly at the dutch standard laboratory NMI.
From the known illuminance and the 2856 K spectrum the
photosynthetic photon flux density is calculated: 6.122 $\mu\text{mol}/\text{s}\cdot\text{m}^2$.
The sensitivity figure of the reference PAR LITE is made correct for
hemispherical solar irradiance at airmass 1.5 (spectrum according
international standard ISO 9845-1). The correction of the
sensitivity figure was +1.2 %.

Correction applied
to

