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CALIBRATION CERTIFICATE

Recel 21Augo)

QUANTUM SENSOR

Calibration date

26-juli-2001

Calibrated by

G. Lindner

Quantum sensor, type

PAR LITE

Serial no

010160

Sensitivity (± 2%)

5.20 $\mu V/\mu mol/s.m^2$

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 μ mol/s.m².

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 turn 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 µmol/s.m². 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 %.

File name; PARLITEcalibratie cert..doc Date : 980701

Correction applied

to