

Calibration Certificate No. 200113-1

Object: RadioLux 111, advanced version as luxmeter class A

Serial No.: 120515

Applicant: Metrolux, 106 00 Prag, Czech Republic

Manufacturer: PRC Krochmann, Am Sandwerder 47, 14109 Berlin

Calibration Task Calibration of an illuminance meter using standard illuminant A at a given level of illuminance.

Measurement Conditions

Geometric Setup The acceptance area of the photometer head was illuminated perpendicularly. The reference plane for the distance measurement is the diffusor surface.

Operating Conditions The instrument was operated with 1,5 v AA batteries. The warm-up period was 4 minutes. The ambient temperature was $(25 \pm 1)^\circ\text{C}$. The photometer head was connected to the reading unit.

Zero setting Reading of „0“ with the photometer head in total dark in all ranges.

Results

Illuminance	Reading Before Adjustment	Reading After Adjustment
[lx]	[lx]	[lx]
68,42	64,77	68,42

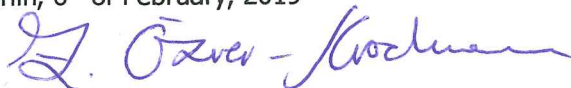
Uncertainties:

Photometric uncertainty of referred PTB calibrated standard lamp: 0,6 %
Photometric transfer uncertainty better than: 0,3 %
relative expanded measurement uncertainty incl. the uncertainty of the standard employed 0,9 %

The traceability of the used standard lamp to the national standard is guaranteed by calibration certificate issued by Physikalisch-Technische Bundesanstalt Braunschweig, calibration mark WI 41/G 40046 PTB 18, dated 06.02.2018 (DIN EN ISO/IEC-17025).

The uncertainty stated is the expanded relative uncertainty of measurement $u(E)$ obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. It corresponds, in the case of a normal distribution of the deviation from the measurement value, to a coverage probability of 95 %. The standard uncertainty has been determined in accordance with the "Guide to the Expression of Uncertainty in Measurement" (ISO, 1995).

Berlin, 6th of February, 2019



Dipl.-Ing. Z. Özver-Krochmann