

CERTIFICATE OF CALIBRATION

Instrument: Spectroradiometer HTS Color Brick 2.0
Serial Number: **170004**
Calibration date: **June 26, 2018**
Calibration due date: **June, 2019**
Temperature: **22° ± 3°C**
Relative Humidity: **40% ± 20%**

The instrument was calibrated and tested using Working Lamp and other equipment, which uses standards calibrated by opsira (www.opsira.de) and secondary standards to verify various measurements. opsira generates test reports and certificates including measured data that are traced back to national and international standards.

The irradiance/illuminance uncertainty is ± 4% which was expanded using a coverage Factor of K=2, which provides a confidence of approximately 95%.

- CCT (Correlated Color Temperature) and Ra (Color Rendering Index)

| CCT and Ra | | |
|---------------------|-------------|-----------|
| Light Source | Halogen (A) | LED (D56) |
| CCT [K] (Reference) | 2789 | 5531 |
| Ra (Reference) | 99.8 | 97.80 |
| CCT [K] (SR) | 2760 | 5500 |
| Ra (SR) | 99 | 98 |

- Illuminance Measured Against the Calibrated Light Meter LM-100 HTS – Inv. 112

| | | |
|-----------------|-----|-------|
| Lux (Reference) | 112 | 406.1 |
| Lux (SR) | 126 | 410 |

- UV-A Measured with Calibrated G&R Labs Intensity Meter HTS – Inv. 111

| | |
|--------------------|------|
| mW/cm2 (Reference) | 0.07 |
| mW/cm2 (SR) | 0.06 |

Herewith Hi-Tec-Support GmbH confirms that the calibrations documented above, has been undertaken in consideration of the Quality Assurance System DIN ISO 9001.

Measurements carried out by

F.Both

Visa:

Date

26.6.2018

