



校准证书

CALIBRATION CERTIFICATE

证书编号 HGX202421357
Certificate No.

第 1 页, 共 3 页
Page of

客户名称 产品质量检验技术研究院
Name of the Customer

联络信息
Contact Information

计量器具名称 辐射照度计
Description

型号/规格 TS280
Model/Type

制造厂 深圳市速德瑞科技有限公司
Manufacturer

出厂编号 TS280246065
Serial No.

设备管理编号 ----
Equipment No.

接收日期 2024 年 07 月 09 日
Receipt on Y M D

结论 见校准结果
Conclusion Shown in the results of calibration

校准日期 2024 年 07 月 19 日
Calibration on Y M D

发布日期 2024 年 07 月 22 日
Issue on Y M D

批准 卢德润
Authorized by 卢德润

核验 宋贻武
Reviewed by 宋贻武

校准 朱启乐
Calibrated by 朱启乐

证书专用章
Stamp



扫一扫查真伪



说明

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Certificate No.

DIRECTIONS

第 2 页, 共 3 页
Page of

1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Location and environmental conditions of the calibration:

地点	光参量室	温度	25 °C	相对湿度	55 %
Location	(Optics Parameter Lab.)	Temperature		R.H.	

4. 本次校准的技术依据:

Reference documents for the calibration:

FFH1901-2019 红外LED辐照计校准方法 C.M. for IR LED Irradiance Meters

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号规格/测量范围	编号	证书号/有效期/溯源单位	计量特性
Name of Equipment	Serial No.	Certificate No./Due Date	Metrological
/Model/Type/Range		/Traceability to	Characteristic
光谱辐射计	QEP130910	HGX202322352	波长: $U=0.2$ nm, $k=2$
Spectral Radiometer		/2024-12-20	辐射度: $U_{rel}=5.4\%$, $k=2$
/QE65/(100~1700)nm		/本中心	Wave Length: $U=0.2$ nm, $k=2$
			Radiometric: $U_{rel}=5.4\%$, $k=2$

注: 1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “客户名称”、“联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information Name of the Customer and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.



校准结果

RESULTS OF CALIBRATION

证书编号 HGX202421357
Certificate No.

原始记录号 HGX202421357
Record No.

第 3 页, 共 3 页
Page of

一. 辐照度示值校准: 见表1。

The measure of radiant intensity: Shown in table 1.

零点检查: 符合要求

Zero checking: pass

表1

Table 1

标准值 ($\mu\text{W}/\text{cm}^2$)	显示值 ($\mu\text{W}/\text{cm}^2$)	修正因子	相对误差
Nominal Value	Indication Value	Correction factor	Relative error
1798	1789	1.01	-0.5%
721	731	0.99	1.4%
380	378	1.01	-0.5%

说明:

Note

1. 使用时仪器显示数据需乘以修正因子。

The data of the equipment should be multiplied by the correction factor.

2. 校准条件: 波长: (800~1000) nm 校准光源: 940nm LED

Conditions: wavelength: light source:

3. 辐照度测量结果的相对扩展不确定度: $U_{\text{rel}}=8.2\%$, $k=2$ 。

Related expanded uncertainty of measuring results:

4. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定, 由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement, which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

5. 受被测仪器自身性能的影响, 证书中的修正因子仅适用于测量与证书中的光谱类型相同的光源, 否则可能带来较大的测量误差。

Due to the influence of the performance of the instrument under test, the correction factor in the certificate is only applicable to the light source with the same spectral type as that in the certificate, otherwise it may bring a large measurement error.

6. 该仪器的溯源日期为本证书的“校准日期”, 按照所依据技术文件的规定, 建议复校时间间隔不超过一年。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

The traceability date of this instrument is the "Calibration Date" on this certificate, According to the demand of reference document, next calibration is proposed within one year. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.