



# 校准证书

## CALIBRATION CERTIFICATE

证书编号 HGX202340951  
Certificate No.

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委托方 优利德科技(中国)股份有限公司  
Client

委托方联络信息 广东省东莞市松山湖区工业北一路6号  
Contact Information

计量器具名称 照度计  
Description

型号/规格 UT382A  
Model/Type

制造厂 UNI-T  
Manufacturer

出厂编号 C232883766  
Serial No.

设备管理编号 ---  
Equipment No.

接收日期 2023 年 09 月 21 日  
Date of Receipt Y M D

结果 见校准结果  
Results Shown in the results of calibration

校准日期 2023 年 09 月 28 日  
Date of Calibration Y M D

批准人 尹强  
Approved Signatory

核 验 朱启乐  
Reviewed by

校 准 卢德润  
Calibrated by



扫一扫查真伪





## 说 明

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### DIRECTIONS

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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:

Place and environmental conditions of the calibration:

地点 本院光学理化实验室

温度 23 °C

相对湿度 50 %

Place (Optics & Phy.-Chemistry Lab.)

Temperature

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJG 245-2005 光照度计检定规程 V.R. of Illuminance Meter

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 Name of Equipment /Model/Type/Range	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
发光强度标准灯(光强部分) Standard Lamp of Luminous Intensity(light intensity part) /BDQ8/1200 cd	13-051	GXgd2023-01349 /2024-04-06 /国家计量院	一级 Grade 1

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. “委托方”、“委托方联络信息”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 Client 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.

4. 本次校准日期视为发布日期。The calibration date is the date of issue of the certificate.





# 校准结果

## RESULTS OF CALIBRATION

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### 一. 照度示值及其相对误差见表1

The illuminance meter's indication value and relative error are shown in table 1

表 1

Table 1

标准值/lx Nominal Value/lx	仪器示值/lx Indication Value/lx	相对误差/% Relative Error/%	相对扩展不确定度 $U_{rel}(k=2)$
50.00	51.18	+2.4	1.3%
100.0	101.9	+1.9	1.3%
500.0	503.0	+0.6	1.3%
1000	1003	+0.3	1.3%
1500	1509	+0.6	1.3%
2000	2010	+0.5	1.3%
2500	2525	+1.0	1.3%

说明:

Note:

1. 本次校准在CIE标准A光源 ( $T_{ITS-90}=2856K$ ) 下进行。

This calibration was carried out under CIE standard illuminant A ( $T_{ITS-90}=2856K$ ).

2. 按规程规定: 示值相对误差不超过: 一级:  $\pm 4\%$ , 二级:  $\pm 8\%$ 。

According to the verification regulation, MPE of Relative indication error: for Grade 1:  $\pm 4\%$ , for Grade 2:  $\pm 8\%$ .

3. 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 JJF1059.1-2012

《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%.

4. 本次测量结果的相对扩展不确定度仅适用于CIE标准A光源标准照明条件下测量所得结果; 同时该测量结果的不确定度未充分考虑仪器本身 $V(\lambda)$ 匹配误差、余弦特性误差、疲劳误差、红外响应误差、紫外响应误差引入的不确定度。

The relative expanded uncertainty of the measurement results is only applicable to the measurement results under the standard lighting conditions of CIE standard a light source; At the same time, the uncertainty of the measurement results does not fully consider the uncertainty of the instrument itself caused by  $V(\lambda)$  matching error, cosine characteristic error, fatigue error, infrared response error and ultraviolet response error.

5. 由于复校时间间隔的长短是由仪器的使用情况、使用者、仪器本身质量等诸因素所决定的, 因此, 送校单位可根据实际使用情况自主决定复校时间间隔。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。





华南国家计量测试中心  
广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY  
GUANGDONG INSTITUTE OF METROLOGY



中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L0730

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Since the calibration interval is determined by the use of the instrument, operation of the user, the quality of the instrument itself and other factors, the re-calibration date can be decided by the user according to the actual situation. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.

