



中国认可
国际互认
校准
CALIBRATION
CNAS L0502

校准证书

Calibration Certificate

证书编号 GXfs2021-00046
Certificate No.

客户名称 Client	力汕电子科技（上海）有限公司 LISUN ELECTRONICS (SHANGHAI) CO., LTD
器具名称 Instrument	氙灯 Deuterium Lamp
型号/规格 Type/Model	REF-5000UV
出厂编号 Serial No.	CAL202012002
生产厂商 Manufacturer	/
联络信息 Contact Information	上海市嘉定区沪宜公路 1101 号 1 幢 113 室 ROOM 113-1, NO. 1101, HUYI ROAD, JIDING DISTRICT, SHANGHAI
校准日期 Date of Calibration	2021-01-08
接收日期 Date of Receiving	2020-12-28

批准人：代彩虹

Approved by

发布日期：2021 年 1 月 12 日

Date of Issue



地址：中国北京北三环东路 18 号
Address: No.18 Bei San Huan Dong Lu, Beijing, P.R.China

电话：+86-10-64525569/74
Tel

网址：<http://www.nim.ac.cn>
Website

邮编：100029
Post Code

传真：+86-10-64271948
Fax

电子邮箱：kehufuwu@nim.ac.cn
Email

中国计量科学研究院



证书编号 GXfs2021-00046
Certificate No.

中国计量科学研究院 (NIM) 是国家最高的计量科学研究中心和国家级法定计量技术机构。1999 年授权签署了国际计量委员会 (CIPM)《国家计量基(标)准和国家计量院签发的校准与测量证书互认协议》(CIPM MRA)。The National Institute of Metrology (NIM) is China's national metrology institute (NMI) and a state-level legal metrology institute. NIM is China's signatory to the Mutual Recognition of National Measurement Standards and of Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA) which is arranged by the International Committee of Weights and Measures (CIPM).

质量管理体系符合 ISO/IEC17025 标准, 通过中国合格评定国家认可委员会 (CNAS) 和亚太计量规划组织 (APMP) 联合评审的校准和测量能力 (CMCs) 在国际计量局 (BIPM) 关键比对数据库中公布。NIM's quality management system meets requirements of the ISO/IEC 17025. Its Calibration and Measurement Capabilities (CMCs) that are peer reviewed both by China National Accreditation Service for Conformity Assessment (CNAS) and the Asia Pacific Metrology Programme (APMP) are published in the International Bureau of Weights and Measures (BIPM) Key Comparison Database (KCDB).

2011 年, NIM 和 CNAS 就认可领域的技术评价活动签署了谅解备忘录, 承认 NIM 的计量支撑作用和出具的校准/检测结果的溯源效力。NIM and CNAS signed a Memorandum of Understanding (MOU) for Recognition of Technical Assessment in Laboratory Accreditation Field in 2011, in which CNAS recognizing the technical supporting role of NIM in laboratory accreditation and the traceability of NIM's calibration / test results.

校准结果不确定度的评估和表述均符合 JJF1059 系列标准的要求。The evaluation and expression of uncertainty of the calibration results are in line with the requirements of JJF1059 series standards.

校准所依据/参照的技术文件 (代号、名称) Reference documents (Code,Name)
参照 NIM-ZY-GX- FS-403 氘灯光谱辐射照度校准规范

校准环境条件及地点 Calibration place and environment

温度 Temperature: (22.5 ± 1.0) °C 地点 Location: 和-13-108

湿度 Humidity: (33 ± 2) % RH 其它 Others: /

校准使用的计量基 (标) 准装置(含标准物质)/主要仪器

Reference Standards (Including the Reference Material) / Instruments used

名称 Name	测量范围 Measurement Range	不确定度/ 准确度等级 Uncertainty/Accuracy	证书编号 Certificate No.	证书有效期 Due Date (YYYY-MM-DD)
氘灯 Deuterium Lamp	200nm- 400nm	200nm-250nm: $U_{rel}=(8.0-2.6)\% (k=2);$ 250nm-400nm: $U_{rel}=(2.6-3.8)\% (k=2);$	GXfs2020-00367	2022-02-16



证书编号 GXfs2021-00046
Certificate No.

校准结果 Calibration Results

被测光源的相对光谱辐射照度值 Relative spectral irradiance of the lamp:

波长 nm	相对光谱辐射照度 Relative spectral irradiance	相对测量不确定度 Relative uncertainty % (k=2)	波长 nm	相对光谱辐射照度 Relative spectral irradiance	相对测量不确定度 Relative uncertainty % (k=2)
200	1.000E+00	13	252	4.863E-01	10
202	9.741E-01	13	254	4.740E-01	10
204	9.471E-01	12	256	4.585E-01	10
206	9.177E-01	12	258	4.398E-01	10
208	8.878E-01	11	260	4.207E-01	10
210	8.616E-01	11	262	4.037E-01	10
212	8.420E-01	10	264	3.886E-01	10
214	8.252E-01	10	266	3.743E-01	10
216	8.056E-01	10	268	3.608E-01	10
218	7.827E-01	10	270	3.486E-01	10
220	7.608E-01	10	272	3.381E-01	10
222	7.432E-01	10	274	3.285E-01	10
224	7.288E-01	10	276	3.189E-01	10
226	7.156E-01	10	278	3.096E-01	10
228	7.014E-01	10	280	3.020E-01	10
230	6.847E-01	10	282	2.969E-01	10
232	6.648E-01	10	284	2.914E-01	10
234	6.447E-01	10	286	2.821E-01	10
236	6.283E-01	10	288	2.695E-01	10
238	6.149E-01	10	290	2.578E-01	10
240	5.998E-01	10	292	2.502E-01	10
242	5.793E-01	10	294	2.445E-01	10
244	5.559E-01	10	296	2.375E-01	10
246	5.336E-01	10	298	2.284E-01	10
248	5.144E-01	10	300	2.193E-01	10
250	4.988E-01	10	302	2.119E-01	10



校准结果 Calibration Results

续表 Continued:

波长 nm	相对光谱辐射照度 Relative spectral irradiance	相对测量不确定度 Relative uncertainty % (k=2)	波长 nm	相对光谱辐射照度 Relative spectral irradiance	相对测量不确定度 Relative uncertainty % (k=2)
304	2.062E-01	10	354	1.060E-01	10
306	2.020E-01	10	356	1.028E-01	10
308	1.986E-01	10	358	9.943E-02	10
310	1.945E-01	10	360	9.676E-02	10
312	1.890E-01	10	362	9.541E-02	10
314	1.826E-01	10	364	9.436E-02	10
316	1.764E-01	10	366	9.226E-02	10
318	1.708E-01	10	368	8.903E-02	10
320	1.659E-01	10	370	8.588E-02	10
322	1.613E-01	10	372	8.383E-02	10
324	1.567E-01	10	374	8.312E-02	10
326	1.515E-01	10	376	8.375E-02	10
328	1.461E-01	10	378	8.468E-02	10
330	1.417E-01	10	380	8.390E-02	10
332	1.391E-01	10	382	8.014E-02	10
334	1.372E-01	10	384	7.548E-02	10
336	1.345E-01	10	386	7.271E-02	10
338	1.306E-01	10	388	7.225E-02	10
340	1.265E-01	10	390	7.212E-02	10
342	1.229E-01	10	392	7.083E-02	10
344	1.197E-01	10	394	6.907E-02	10
346	1.167E-01	10	396	6.807E-02	10
348	1.138E-01	10	398	6.817E-02	10
350	1.111E-01	10	400	6.885E-02	10
352	1.086E-01	10	/	/	/



证书编号 GXfs2021-00046
Certificate No.

校准结果 Calibration Results

说明:

1. 校准设备: OL750D 双光栅光谱辐射计, 其量值溯源至光谱辐射照度国家基准。
Calibration equipment: OL 750D double grating spectroradiometer, traceable to the national primary standard of spectral irradiance.
2. 被测灯稳定时间: 15min。
Tested after the lamp was powered on for 15 minutes.

(以下空白)
(Blank below)

建议 Suggestion:

根据客户要求和校准规范的规定, 通常情况下 24 个月校准一次。

According to the client or the calibration specification, the recommended calibration cycle is 24 months.

声明 Statement:

1. 我院仅对加盖“中国计量科学研院校准专用章”的完整证书负责。

NIM is ONLY responsible for the complete certificate with the calibration stamp of NIM.

2. 本证书的校准结果仅对所校准的计量器具有效。

The certificate is ONLY valid for the calibrated instrument.

3. 本证书用中英文两种语言表达, 准确含义以中文为准。

The certificate is reported in both English and Chinese, with the Chinese version as standard.

校准员:

吴志峰

Calibrated by

核验员:

王彦飞

Checked by