



中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L0502

# 校准证书

Calibration Certificate

证书编号 GXgd2021-10386  
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	卤素灯（产品名称：通用标准光源） Halogen lamp (Product name: Measurement standard lamp)
型号/规格 Type/Model	SLS-50W
出厂编号 Serial No.	CAL001A0077
生产厂商 Manufacturer	LISUN GROUP
联络信息 Contact Information	上海市嘉定区沪宜公路 1101 号 1 幢 113 室-1 ROOM 113-1, NO. 1101, HUJI ROAD, JIDING DISTRICT, SHANGHAI
校准日期 Date of Calibration	2021-03-03
接收日期 Date of Receiving	2021-02-26

批准人：刘慧

Approved by

发布日期：2021 年 03 月 04 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

邮编：100029  
Post Code

电话：+86-10-64525569/74  
Tel

传真：+86-10-64271948  
Fax

网址：http://www.nim.ac.cn  
Website

电子邮箱：kehufuwu@nim.ac.cn  
Email

# 中国计量科学研究院



证书编号 GXgd2021-10386  
Certificate No.

<p>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).</p> <p>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).</p> <p>2020 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 2020, in which CNAS recognizing the technical supporting role of NIM in laboratory accreditation and the traceability of NIM's calibration / test results.</p> <p>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.</p>																			
<p>校准所依据/参照的技术文件（代号、名称）Reference documents (Code,Name)</p> <p>参照 JJG 213-2003 分布（颜色）温度标准灯检定规程/Refer to JJG 213-2003 Verification regulation of standard lamps for distribution (colour) temperature</p> <p>参照 JJG 247-2008 总光通量标准白炽灯检定规程/Refer to JJG 247-2008 Verification regulation of Incandescent standard lamp for total luminous flux</p>																			
<p>校准环境条件及地点 Calibration place and environment</p> <p>温度 Temperature: (21.5~21.7) °C      地点 Location: 和-13-115</p> <p>湿度 Humidity: (27.0~30.0) % RH      其它 Others: //</p>																			
<p>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</p> <table border="1"> <thead> <tr> <th>名称 Name</th> <th>测量范围 Measurement Range</th> <th>不确定度/ 准确度等级 Uncertainty/ Accuracy</th> <th>证书编号 Certificate No.</th> <th>证书有效期 Due Date (YYYY-MM-DD)</th> </tr> </thead> <tbody> <tr> <td>色温标准光源 Standard lamp</td> <td>2856K</td> <td><math>U = 10K</math> (<math>k = 2</math>)</td> <td>GXgd2020-01849</td> <td>2021-07-20</td> </tr> <tr> <td>标准光源 Standard lamp</td> <td>(100 ~ <math>5 \times 10^3</math>) lm</td> <td><math>U_{rel} = 1.2 \%</math> (<math>k = 2</math>)</td> <td>Gxgd2021-10390</td> <td>2022-02-28</td> </tr> </tbody> </table>					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)	色温标准光源 Standard lamp	2856K	$U = 10K$ ( $k = 2$ )	GXgd2020-01849	2021-07-20	标准光源 Standard lamp	(100 ~ $5 \times 10^3$ ) lm	$U_{rel} = 1.2 \%$ ( $k = 2$ )	Gxgd2021-10390	2022-02-28
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)															
色温标准光源 Standard lamp	2856K	$U = 10K$ ( $k = 2$ )	GXgd2020-01849	2021-07-20															
标准光源 Standard lamp	(100 ~ $5 \times 10^3$ ) lm	$U_{rel} = 1.2 \%$ ( $k = 2$ )	Gxgd2021-10390	2022-02-28															



证书编号 GXgd2021-10386  
Certificate No.

## 校准结果 Calibration Results

灯号 Lamp No.	灯电流 Lamp Current (A)	参考灯电压 Reference Lamp Voltage (V)	色品坐标 Chromaticity Coordinate		相关色温 Correlated Color Temperature (K)
			<i>x</i>	<i>y</i>	
CAL001A0077	2.1141	23.28	0.4473	0.4069	2856

以 5nm 为间隔的相对光谱功率分布数据 (380nm-780nm):

The relative spectral power distribution data (380nm-780nm) with bandwidth 5nm:

波长 Wavelength (nm)	相对光谱功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱功率 Relative Spectral Power
380	0.03007	385	0.03641	390	0.04257	395	0.04871
400	0.05613	405	0.06413	410	0.07232	415	0.08040
420	0.08846	425	0.09621	430	0.10459	435	0.11268
440	0.12106	445	0.12905	450	0.13783	455	0.14772
460	0.15857	465	0.16884	470	0.17972	475	0.19070
480	0.20203	485	0.21280	490	0.22442	495	0.23603
500	0.24773	505	0.26040	510	0.27384	515	0.28757
520	0.30107	525	0.31490	530	0.32888	535	0.34278
540	0.35696	545	0.37166	550	0.38598	555	0.40111
560	0.41570	565	0.43024	570	0.44513	575	0.46057
580	0.47548	585	0.49058	590	0.50561	595	0.52123
600	0.53738	605	0.55199	610	0.56682	615	0.58149
620	0.59672	625	0.61177	630	0.62596	635	0.64199
640	0.65745	645	0.67319	650	0.68820	655	0.70180
660	0.71541	665	0.72935	670	0.74274	675	0.75598
680	0.77090	685	0.78519	690	0.79942	695	0.81344
700	0.82671	705	0.83900	710	0.85035	715	0.86281

(数据接下一页)

(The remaining data goes to the next page)



证书编号 GXgd2021-10386  
Certificate No.

## 校准结果 Calibration Results

波长 Wavelength (nm)	相对光谱 功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱 功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱 功率 Relative Spectral Power	波长 Wavelength (nm)	相对光谱 功率 Relative Spectral Power
720	0.87441	725	0.88668	730	0.89795	735	0.90941
740	0.92017	745	0.93243	750	0.94332	755	0.95313
760	0.96190	765	0.97102	770	0.98069	775	0.98951
780	1.00000						

说明:

Specification:

1. 直流稳流、稳压电源供电，校准时以控制灯电流为准。

During calibration use a constant current and voltage DC power supply, and control the current of the lamp.

2. 校准结果的不确定度：相关色温为  $U = 14 \text{ K} (k=2)$ ，色品坐标  $U = 0.0015 (k=2)$ 。

The uncertainty of calibration results: correlated color temperature  $U = 14 \text{ K} (k=2)$ , chromaticity coordinate  $U = 0.0015 (k=2)$ 。

3. 下次送检请带此证书复印件。

Please take a copy of the certificate at next calibration.

(以下空白)

(The following is blank)



证书编号 GXgd2021-10386  
Certificate No.

## 校准结果 Calibration Results

灯号 Lamp No.	灯电流 Lamp Current (A)	参考灯电压 Reference Lamp Voltage (V)	总光通量 Total Luminous Flux (lm)
CAL001A0077	2.1141	23.28	783.2

说明: Specification:

1. 直流稳流、稳压电源供电, 校准时以控制灯电流为准。

During calibration use a constant current and voltage DC power supply, and control the current of the lamp.

2. 总光通量校准结果的不确定度为  $U_{rel} = 1.5\%$  ( $k=2$ )。

The uncertainty of total luminous flux calibration results is  $U_{rel} = 1.5\%$  ( $k=2$ )

3. 下次送检请带此证书复印件。

Please take copy of the certificate at next calibration.

-----以下空白-----  
Blank below

建议 Suggestion:

根据客户要求和校准规范 JJG 213-2003 和 JJG 247-2008 的规定, 通常情况下 12 个月校准一次。

According to the client or the calibration specification JJG213-2003&JJG 247-2008, the recommended calibration cycle is 12 months.

声明 Statement:

1. 我院仅对加盖“中国计量科学研究院校准专用章”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:

赵伟强

Calibrated by

核验员:

刘慧

Checked by