

中国计量科学研究院

National Institute of Metrology, China



中国认可
国际互认
校准
CALIBRATION
CNAS L0502

校准证书

Calibration Certificate

证书编号 GXgd2025-01587
Certificate No.

客户名称 Client	SAUDI LIGHTING CO LTD
器具名称 Instrument	卤素灯 Tungsten Halogen lamp
型号/规格 Type/Model	SLS-150W
出厂编号 Serial No.	L513536A
生产厂商 Manufacturer	/
联络信息 Contact Information	2nd Industrial City, P.O. Box 25609, New_Al Kharj Road, Riyadh 11476, Kingdom of Saudi Arabia
校准日期 Date of Calibration	2025 年 05 月 06 日
接收日期 Date of Receiving	2025 年 04 月 25 日

批准人:

刘慧

Approved by



发布日期: 2025 年 05 月 06 日
Date of Issue

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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).

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.

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 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

校准环境条件及地点 Calibration place and environment
温度 Temperature: (24.5-25.6) °C 地点 Location: 和-13-214
湿度 Humidity: (19-24) % 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.	证书有效期至 Due Date (YYYY-MM-DD)
色温标准光源 Standard lamp	2353K, 2856K, 3000K	$U = (7-10) \text{ K}$ ($k = 2$)	GXgd2024- 04714	2025-07-19



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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)
			x	y	
L513536A	6.1000	21.30	0.4240	0.3996	3193

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 interval 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	0.08218	385	0.09076	390	0.09871	395	0.10724
400	0.11546	405	0.12479	410	0.13496	415	0.14514
420	0.15509	425	0.16665	430	0.17802	435	0.19026
440	0.20241	445	0.21469	450	0.22695	455	0.24001
460	0.25300	465	0.26733	470	0.28033	475	0.29405
480	0.30818	485	0.32321	490	0.33720	495	0.35199
500	0.36681	505	0.38235	510	0.39726	515	0.41207
520	0.42766	525	0.44225	530	0.45730	535	0.47163
540	0.48747	545	0.50210	550	0.51759	555	0.53192
560	0.54765	565	0.56210	570	0.57647	575	0.59153
580	0.60634	585	0.62065	590	0.63549	595	0.64964
600	0.66249	605	0.67622	610	0.69017	615	0.70277
620	0.71591	625	0.72946	630	0.74280	635	0.75482
640	0.76646	645	0.77802	650	0.78993	655	0.80088
660	0.81304	665	0.82273	670	0.83425	675	0.84433
680	0.85461	685	0.86427	690	0.87417	695	0.88245
700	0.89160	705	0.90030	710	0.90747	715	0.91594

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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	0.92410	725	0.93166	730	0.94017	735	0.94777
740	0.95487	745	0.96180	750	0.96867	755	0.97405
760	0.97985	765	0.98328	770	0.98907	775	0.99566
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 $U=17\text{ K}$ ($k=2$), 色品坐标 $U=0.0015$ ($k=2$)。The uncertainty of calibration results: correlated color temperature $U=17\text{ K}$ ($k=2$), 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.

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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:

赵伟强

Calibrated by

核验员:

刘慧

Checked by