报告编号： Report No.

IIIIIIIIIIIIIHHIIIIIIIIIIIIIIIIIIIIIII

900843669-001

委托单

Customer

苏州市计量测

**Suzhou Institute of Metrology**

检验检测报告

Test Report

苏州市吴江区思贤实验小学

单位地

Address of customer

长板路1699号

样

Name

品名称：

of Sample

教室室内照明

制

Manufacturer

型号规

Model Specification

一年级4班

样

No.

品编号：

of sample

批

Approved by

职务

刘宏欣 Position

部长

签发日期

Date of Issue

2021 -08-20

回及田泌回

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 接收日期 | 2021 | 年 | 08 | 月 | 20 '団 |
| Receive Date |  | Year |  | Month | Day |
| 检验检测日期 | 2021 | 年 | 08 | 月 | 20日 |
| Date of test |  | Year |  | Month | Day |

电话：0512-65230843

Tel.

网址:

HTTP

www. szjl. com. cn

地址：苏州市吴中区文曲路69号

Address:No. 69,Wenqu Road, Wuzhong District, Suzhou



*CNAS*



报告编号：IIIIII刪剛IIIII岫IIII

Report No. 900843669-001

本院是国家法定计量检定机构，计量授权证书号：(苏)法计(2018)1005号。

This laboratory is a national legal metrological verification institution. Authorization certificate No. (2018)1005.

本院通过了中华人民共和国计量认证监督评审，认证合格证书：151020110007。 一

This laboratory has assessed by China Metrology Accreditation Service, certification No.151020110007.

本次检验检测所依据的方法规范：

Reference documents for the test methods

GB/T 5700-2008《照明测量方法》

GB/T 5700-2008《Measurement methods for lighting》

GB 7793-2010《中小学教室釆光和照明卫生标准》

本次检验检测结果判定所依据的技术规范:

Technical specifications for the determination of the results of test

本次检验检测所使用的主要计量器具:

Main measurement standards used in the test

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 Name | 编号 No. | 测量范围  Measure Range | 不确定度或准确度等级 或最大允许误差 Uncertainty or Accuracy Class orMPE. | 溯源机构  Traceability Mechanism | 证书编号/ 有效期 Certificate  No./Due Date |
| 功率计  Power meter | 91M444428 | 电压：(0-600) V；电 流：(0~20) A；功 率：(0-4000) W | 电压：t/=(0.06〜0.35)V；电流：*U=*  (0.0006-0.06)A；功率：U=(0.12〜  2.4)W； (A=2) | 苏州市计量 测试院 | 801634364/  2022-05-27 |
| 光谱辐射照 度计 | 10001687 | 波长：(380~780)nm；照 度:(0~10000)lx ;色温: (2000~9000)K | 波长：t/=lnm *k=2；*照度： U=2.0%A=2;*色温:*t/=53K>2  Wavelength：仁Inm 妇2： Illumination： 片2.0% A=2:Color Temperature：位53K,妇2 | 苏州市计量 测试院 | 801561171/  2022-01-26 |
| 眩光测试仪 | 0780520000  10 | 0~20000cd/m2 | 亮度：Lel=4%O2) | 苏州市计量 测试院 | 801561164/  2022-01-26 |
| 激光测距仪 | 411408142 | (0〜40) m | MPE:± 1.0mm | 苏州市计量 测试院 | 801699440/  2022-08-30 |

注： 1 \ 未经本院批准授权,不得部分采用本证书*。*Partly using this certificate will not be admitted unless allowed by SIM. Statement 2、本证专的检验检测结果仅对当时所检样品有效。The results of this certificate are only responsible for the item tested.

3、 本证书未加盖检验检测专用章无效 ° The certificate is invalid without official stamp.

4、 证丰结果命"P"&裝"合格"，代表'木合格"，"N/A"代表"不适用 ”。In the results of the calibration,"P" stands for "Pass","F" stands for ',Fail",and"N/A" stands for "No applicable".

5、 除I韧k情况，本报告给出的符合性说明未考虑不确定度。Except for special cases,the conformance statement given in this report does not consider uncertainty.

6、 在中华人民共和国境内，报告加盖CMA章，表示测试项目在CMA资质认定范围内；未加盖章，表示部分/全部I页目未 在CMA资质认定范围内,结果仅供内部参考*。*Within the territory of the people's Republic of China, if the report is stamped with

CMA seal, it means that the test items are within the scope of CMA qualification; if not, it means that some / all items are not within the scope of CMA qualification, and the results are for internal reference only.



151020110007

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中国认可 国际互认

报告编号：IIIIII刪剛IIIIIIII刪III

Report No. 900843669-001

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 本院是国家法定计量检定机构，计量授权证书号：(苏)法计(2018) 1005号。 | | | | | |
| This laboratory | s a national legal metrological verification institution. Authorization certificate No. (2018)1005. | | | | |
| 本院通过了中华人民共和国计量认证监督评审，认证合格证书：151020110007。  This laboratory has assessed by China Metrology Accreditation Service, certification No.151020110007. | | | | | |
| 本次检验检测所使用的主要计量器具：  Main measurement standards used in the test | | | | | |
| 名称  Name | 编号 No. | 测量范围 Measure Range | 不确定度或准确度等级 或最大允许误差 Uncertainty or Accuracy Class or MPE. | 溯源机构  Traceability Mechanism | 证书编号/ 有效期 Certificate  No./Due Date |
| 照度计 | 20018760  /31018586 | (O.l-lOOOO)lx | 一级 | 苏州市计量 测试院 | 801580620/  2022-03-08 |

检验检测地点和环境条件：

Location and environmental condition for the test

地点：苏州市吴江区思贤实验小学

Location

温度：(27〜28 ) °C 相对湿度：54 %〜55 %

其他： /

Others

Ambient Temperature Relative Humidity

受样方式：客户现场(非抽样) 样品状态描述： 正常

Way fo「receipt Status of sample

注： 1、未经本院批准授权，不得部分采用本证书。Partly using this certificate will not be admitted unless allowed by SIM. Statement 2、赤证韦南检验检测结果位対当时所检样品有效。The results of this certificate are only responsible for the item tested.

3、 本证书未加盖检验检测专用章无效。The certificate is invalid without official stamp.

4、 证书结果申裝''合格"，"F"径表'不合格”，"N/A"代表”不适用 In the results of the calibration,"P" stands for ”Pass","F"

stands for "Fail",and"N/A" stands for "No applicable”.

5、 除特^情况,本报告给出的符昏性说明未考虑不确定度。Except for special cases.the conformance statement given in this report does not consider uncertainty.

6、 在屮华A民共和国境内，报告加盖CMA章，表示测试项目在CMA资质认定范围内；未加盖CMA章，表示部分/全部项目未 在CMA资质认定范围内,结果仅供内部参考。Within the territory of the people's Republic of China, if the report is stamped with

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报告编号：剛IIWIHII剛圳

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 序号 | 检测项目 | 技术要求 | 检测结果 | 单项判定 |
| 1 | 课桌面维持平均照度(lx) | N300 | 456 | 合格 |
| 2 | 课桌面照度均匀度 | 30. 7 | 0. 78 | 合格 |
| 3 | 黑板维持平均照度(1X) | 3500 | 697 | 合格 |
| *4* | 黑板照度均匀度 | 30. 8 | 0. 88 | 合格 |
| *5* | 光源的相关色温(K) | 4300-5300 | 4709 | 合格 |
| 6 | 光源的显色指数CRI | 》90 | 92 | 合格 |
| 7 | 统一眩光值UGR | W19 | 18. 2 | 合格 |
| 8 | 照明功率密度(W/n?) | W7 | 5. 1 | 合格 |
| 9 | 灯具距课桌面的最低悬挂高度  (m) | >1. 7 | 1. 88 | 合格 |

说明：

1、 维护系数取0.8。

2、 判定依据为《江苏省改造提升义务教育学校教室照明项目操作规程》。

3、 经检测，所检项目符合《江苏省改造提升义务教育学校教室照明项目操作规程》 规定的要求，所检项目的检测结论为合格。

具体检测数据见下页

核验人员:

Checked by

朱王尊

检测人员：乱奏右

Tested by 杨书凡

检测报告续页专用

Continue page of test report



中国认可 国际互认 检測 TESTING

CNAS L0158

报告编号:剛州|||他||刪III

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

检测数据

1、课桌面平均照度

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 测量点 | 测量值（lx） | 测量点 | 测量值（lx） | 测量点 | 测量值（lx） | 测量点 | 测量值（lx） |
| 1 | 442 | 12 | 649 | 23 | 565 | 34 | 568 |
| 2 | 474 | 13 | 582 | *24* | 613 | 35 | 493 |
| 3 | 528 | 14 | 549 | 25 | 666 | 36 | 569 |
| 4 | 639 | 15 | 528 | 26 | 555 | 37 | 577 |
| 5 | 539 | 16 | 596 | 27 | 567 | 38 | 524 |
| 6 | 583 | 17 | 531 | 28 | 634 | 39 | 585 |
| 7 | 613 | 18 | 571 | *29* | 562 | 40 | 609 |
| 8 | 591 | 19 | 535 | *30* | 615 | 41 | 530 |
| 9 | 577 | 20 | 486 | 31 | 568 | *42* | 605 |
| 10 | 698 | 21 | 565 | 32 | 507 | */* | / |
| 11 | 604 | 22 | 612 | 33 | 536 | */* | / |

测量点示意图

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [ 黑板 ] | | | | | | | | |
|  | | | 讲台 | | |  | | |
|  |  |  | | | | |  |  |
|  | . 1 | . 7 | • 13 | • 19 | • 25 | • 31 | • 37 |  |
| . 2 | ・8 | • 14 | • 20 | • 26 | • 32 | • 38 |
| . 3 | . 9 | • 15 | • 21 | • 27 | • 33 | ・39 |
| . 4 | • 10 | • 16 | • 22 | • 28 | • 34 | • 40 |
| . 5 | • 11 | • 17 | • 23 | • 29 | • 35 | • 41 |
| . 6 | • 12 | • 18 | • 24 | • 30 | • 36 | • 42 |
|  |  | | | | | | |  |

测量点（中心布点法，位于测量位置中心）

未完见下页



检测人员：混^右*\七*

Tested by 丿『互 丫 ' — 杨书凡

核验人员:

Checked by

朱王尊



中国认可 国际互认 检测 TESTING

CNAS L0158

报告编号：IIIIIIIIIIMIIIMIIIIIIIIIIIIIIIIII

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

2、黑板平均照度

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测量 点 | 测量值  (lx) | 测量 点 | 测量值 (lx) | 测量 点 | 测量值  (lx) | 测量  点 | 测量值 (lx) | 测量 点 | 测量值  (lx) |
| 1 | 843 | 7 | 788 | 13 | 881 | 19 | 881 | 25 | 887 |
| 2 | 810 | 8 | 901 | 14 | 866 | 20 | 866 | 26 | 905 |
| 3 | 769 | 9 | 1091 | 15 | 853 | 21 | 853 | 27 | 890 |
| *4* | 878 | 10 | 816 | 16 | 880 | 22 | 880 | 28 | 856 |
| 5 | 847 | 11 | 805 | 17 | 865 | 23 | 865 | 29 | 864 |
| 6 | 837 | 12 | 821 | 18 | 859 | 24 | 859 | 30 | 846 |

测量点示意图

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ・1 | . 4 | . 7 | • 10 | • 13 | • 16 | • 19 | • 22 | • 25 | • 28 |
| . 2 | . 5 | . 8 | • 11 | • 14 | • 17 | • 20 | • 23 | • 26 | • 29 |
| . 3 | . 6 | . 9 | • 12 | • 15 | • 18 | • 21 | • 24 | • 27 | • 30 |

测量点(中心布点法，位于测量位置中心)

未完见下页

检测人员：决羣右 '七

Tested by f \ O 杨书凡

核验人员:

Checked by

朱王尊



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中国认可 国际互认 检测 TESTING

CNAS L0158



报告编号:剛帅hi剛邮in

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

3、相关色温和显色指数

|  |  |  |
| --- | --- | --- |
| 测量点 | 相关色温（K） | 显色指数Ra |
| 1 | 4736 | 93 |
| 2 | 4720 | 92 |
| 3 | 4710 | 92 |
| 4 | 4695 | 92 |
| 5 | 4708 | 92 |
| 6 | 4660 | 92 |
| 7 | 4725 | 92 |
| 8 | 4711 | 92 |
| 9 | 4718 | 92 |

测量点示意图

黑板

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ・1 |  | . 2 |  | . 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ・4 |  | ・5 |  | ・6 |
|  | |  | |  |
| . 7 |  | ・8 |  | ・9 |

测量点（中心布点法，位于测量位置中心）

未完见下页

检测人员：升蚤?衿*a*

Tested by 丿昨1 F , 杨书凡

核验人员:

Checked by

朱王尊





报告编号：剛州|||他||刪III

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

4、统一眩光值测量点和测量方向示意图

I 黑板 -

讲台

八

测量方向

测量点

未完见下页

检测人员：混^右*a*

Tested by 丿广死 杨书凡

核验人员:

Checked by

朱王尊



*CNAS*



报告编号：llllllll 州 IIIIIIIIIIIIIIIIIIIMIIII

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检测结果/说明：

Results of test and additional explanation

教室灯铭牌

黑板灯铭牌

未完见下页

检测人员：暮,

Tested by '口 杨书凡

核验人员:

Checked by

朱王尊



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报告编号:HI的删IIIIIIIII剛III

Report No. 900843669-001

检测结果/说明：

Results of test and additional explanation

检测人员:

Tested by

测试现场照片

核验人员:

杨书凡 Checked by

朱王尊

