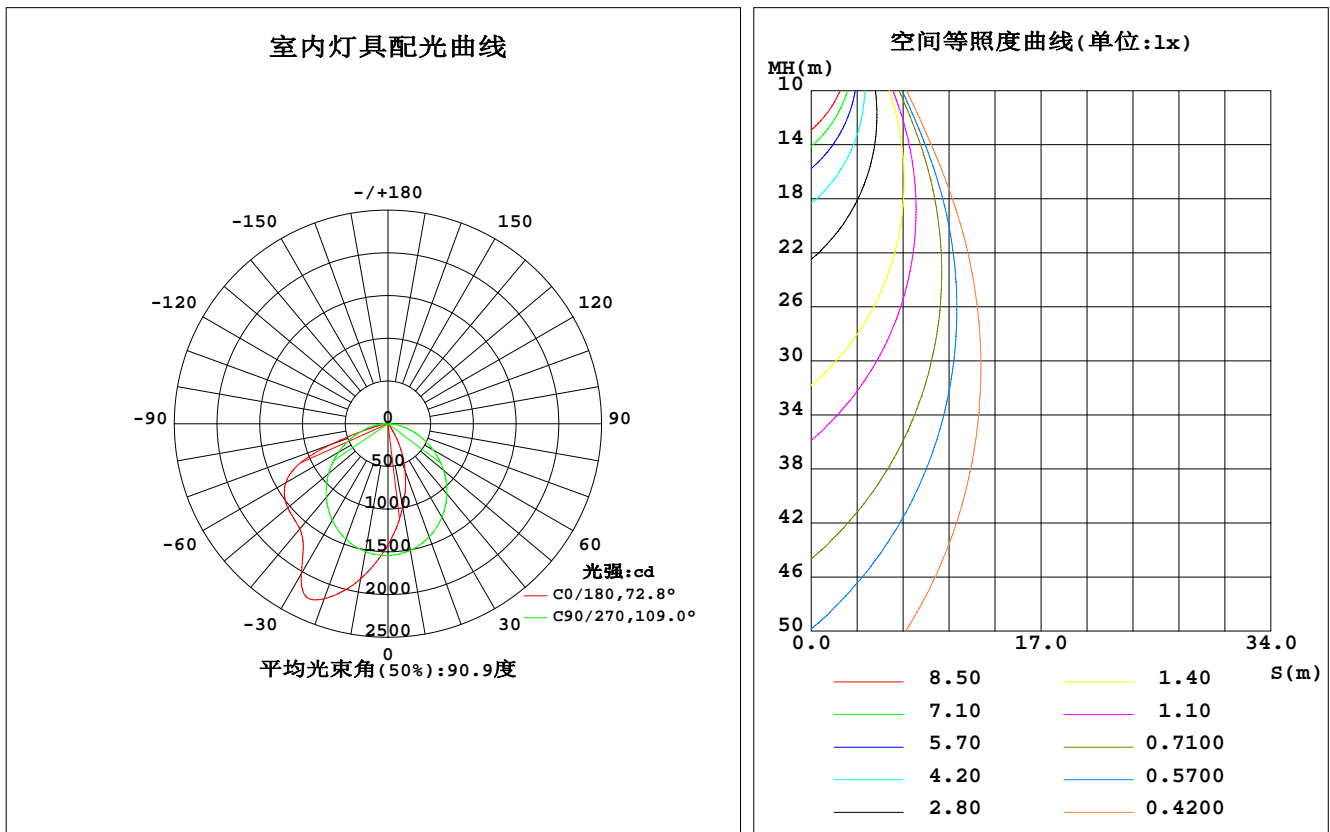


室内灯具光度数据

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |

| 光源数据 | | 光度数据 | | | | 光效: 101.56 lm/W |
|-----------|-----------------|----------|--------|-------------------------|-----------|-----------------|
| 型号 | 2*S2835.66.1650 | 峰值光强(cd) | 2246 | S/MH(C0/180) | 1.70 | |
| 标称功率(W) | 37.8711 | 灯具效率(%) | 100.0 | S/MH(C90/270) | 1.26 | |
| 额定电源电压(V) | 220 | 总光通量(lm) | 3846.0 | η UP, DN(C0-180) | 0.3, 38.7 | |
| 额定光通量(lm) | 3846.02 | CIE分类 | 直接 | η UP, DN(C180-360) | 0.2, 60.8 | |
| 灯具内光源数(只) | 1 | 上射光通比(%) | 0.5 | CIBSE SHR NOM | 1.00 | |
| 实测电源电压(V) | 220.1 | 下射光通比(%) | 99.5 | CIBSE SHR MAX | 1.15 | |



C角度范围: 0度 - 360度
C角度间隔: 45.0度
测试速度: 快速
环境温度: 25.3℃
测试人员: weijie
测试日期: 2019-05-28

γ 角度范围: 0度 - 180度
 γ 角度间隔: 0.5度
测试系统: 远方(EVERFINE)GO-2000B_V1系统 V2.0.351
环境湿度: 65.0%
测试距离: 9.490米 [K=1.0000]
备注:

灯具环带光通量

环带光通量:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | $\gamma(^{\circ})$ | ϕ 环 | ϕ 总 | %lum, lamp |
|----------|-------|-------|--------|--------|--------|--------|--------|-------|--------------------|----------|----------|------------|
| 5 | 1206 | 1354 | 1531 | 1649 | 1629 | 1658 | 1539 | 1355 | 0- 5 | 35.67 | 35.67 | 0.93,0.93 |
| 10 | 995.4 | 1193 | 1505 | 1783 | 1842 | 1799 | 1520 | 1199 | 5- 10 | 106.2 | 141.9 | 3.69,3.69 |
| 15 | 787.5 | 1029 | 1464 | 1896 | 2028 | 1918 | 1487 | 1038 | 10- 15 | 174.2 | 316.1 | 8.22,8.22 |
| 20 | 586.6 | 861.8 | 1410 | 1976 | 2178 | 2004 | 1438 | 875.6 | 15- 20 | 236.8 | 552.9 | 14.4,14.4 |
| 25 | 394.7 | 695.0 | 1342 | 2023 | 2242 | 2058 | 1377 | 712.1 | 20- 25 | 291.1 | 843.9 | 21.9,21.9 |
| 30 | 214.5 | 532.6 | 1263 | 2004 | 2028 | 2041 | 1304 | 550.7 | 25- 30 | 329.8 | 1174 | 30.5,30.5 |
| 35 | 80.22 | 376.9 | 1173 | 1821 | 1731 | 1856 | 1219 | 395.4 | 30- 35 | 342.1 | 1516 | 39.4,39.4 |
| 40 | 9.955 | 229.3 | 1073 | 1524 | 1608 | 1560 | 1123 | 249.2 | 35- 40 | 333.0 | 1849 | 48.1,48.1 |
| 45 | 9.117 | 97.55 | 965.2 | 1326 | 1562 | 1360 | 1019 | 113.5 | 40- 45 | 318.5 | 2167 | 56.4,56.4 |
| 50 | 8.931 | 18.33 | 850.6 | 1212 | 1531 | 1247 | 907.2 | 31.82 | 45- 50 | 309.0 | 2476 | 64.4,64.4 |
| 55 | 8.904 | 11.81 | 730.1 | 1127 | 1479 | 1161 | 788.7 | 11.87 | 50- 55 | 301.8 | 2778 | 72.2,72.2 |
| 60 | 8.904 | 10.86 | 607.1 | 1038 | 1381 | 1074 | 667.4 | 10.92 | 55- 60 | 292.7 | 3071 | 79.8,79.8 |
| 65 | 8.904 | 10.10 | 485.3 | 920.0 | 1182 | 960.3 | 544.0 | 10.19 | 60- 65 | 272.0 | 3343 | 86.9,86.9 |
| 70 | 8.904 | 9.390 | 366.2 | 722.7 | 709.0 | 779.0 | 422.0 | 9.487 | 65- 70 | 229.0 | 3572 | 92.9,92.9 |
| 75 | 8.867 | 8.665 | 253.4 | 331.1 | 241.5 | 406.2 | 306.4 | 8.773 | 70- 75 | 149.8 | 3722 | 96.8,96.8 |
| 80 | 8.815 | 8.009 | 149.8 | 86.79 | 92.31 | 110.4 | 195.3 | 8.080 | 75- 80 | 69.42 | 3791 | 98.6,98.6 |
| 85 | 8.817 | 7.438 | 55.20 | 13.22 | 26.83 | 23.16 | 92.50 | 7.456 | 80- 85 | 29.19 | 3820 | 99.3,99.3 |
| 90 | 8.383 | 5.981 | 1.072 | 0.0212 | 0.0899 | 0.0372 | 4.784 | 6.800 | 85- 90 | 7.026 | 3827 | 99.5,99.5 |
| 95 | 1.395 | 1.419 | 0.8354 | 0.0316 | 0.1004 | 0.0370 | 0.7413 | 1.184 | 90- 95 | 0.6726 | 3828 | 99.5,99.5 |
| 100 | 2.152 | 2.033 | 1.205 | 0.0422 | 0.1179 | 0.0370 | 1.080 | 1.798 | 95-100 | 0.4799 | 3828 | 99.5,99.5 |
| 105 | 2.940 | 2.699 | 1.639 | 0.0794 | 0.1311 | 0.0423 | 1.488 | 2.480 | 100-105 | 0.6661 | 3829 | 99.6,99.6 |
| 110 | 3.665 | 3.271 | 2.126 | 0.1536 | 0.1481 | 0.1002 | 1.969 | 3.110 | 105-110 | 0.8509 | 3830 | 99.6,99.6 |
| 115 | 4.231 | 3.900 | 2.676 | 0.2912 | 0.1762 | 0.2378 | 2.509 | 3.724 | 110-115 | 1.019 | 3831 | 99.6,99.6 |
| 120 | 4.787 | 4.609 | 3.205 | 0.4871 | 0.2066 | 0.4073 | 3.027 | 4.401 | 115-120 | 1.179 | 3832 | 99.6,99.6 |
| 125 | 5.395 | 5.366 | 3.724 | 0.7518 | 0.2912 | 0.6503 | 3.525 | 5.152 | 120-125 | 1.326 | 3833 | 99.7,99.7 |
| 130 | 6.130 | 6.091 | 4.216 | 1.091 | 0.4395 | 0.9886 | 4.032 | 5.892 | 125-130 | 1.458 | 3835 | 99.7,99.7 |
| 135 | 6.845 | 6.667 | 4.676 | 1.493 | 0.6778 | 1.364 | 4.482 | 6.496 | 130-135 | 1.556 | 3836 | 99.8,99.8 |
| 140 | 7.332 | 7.053 | 5.073 | 1.948 | 1.022 | 1.803 | 4.948 | 6.888 | 135-140 | 1.593 | 3838 | 99.8,99.8 |
| 145 | 7.629 | 7.275 | 5.433 | 2.450 | 1.456 | 2.296 | 5.365 | 7.095 | 140-145 | 1.566 | 3840 | 99.8,99.8 |
| 150 | 7.756 | 7.397 | 5.772 | 2.990 | 1.954 | 2.888 | 5.731 | 7.253 | 145-150 | 1.486 | 3841 | 99.9,99.9 |
| 155 | 7.746 | 7.513 | 6.073 | 3.572 | 2.499 | 3.444 | 6.053 | 7.391 | 150-155 | 1.362 | 3842 | 99.9,99.9 |
| 160 | 7.705 | 7.526 | 6.311 | 4.197 | 3.123 | 4.020 | 6.318 | 7.518 | 155-160 | 1.192 | 3844 | 99.9,99.9 |
| 165 | 7.693 | 7.518 | 6.502 | 4.852 | 3.869 | 4.660 | 6.545 | 7.527 | 160-165 | 0.9866 | 3845 | 100,100 |
| 170 | 7.535 | 7.306 | 6.634 | 5.504 | 4.700 | 5.348 | 6.741 | 7.513 | 165-170 | 0.7440 | 3845 | 100,100 |
| 175 | 7.096 | 7.078 | 6.772 | 6.181 | 5.605 | 6.067 | 6.894 | 7.296 | 170-175 | 0.4658 | 3846 | 100,100 |
| 180 | 6.539 | 6.677 | 6.931 | 6.883 | 6.513 | 6.677 | 6.931 | 6.883 | 175-180 | 0.1599 | 3846 | 100,100 |
| 单位:° | 光强:cd | | | | | | | | 单位:lm | | | |

锥面光通量(90度): 2167.3 lm

%lum = 56.4%

%lamp = 56.4%

锥面光通量(120度): 3070.8 lm

%lum = 79.8%

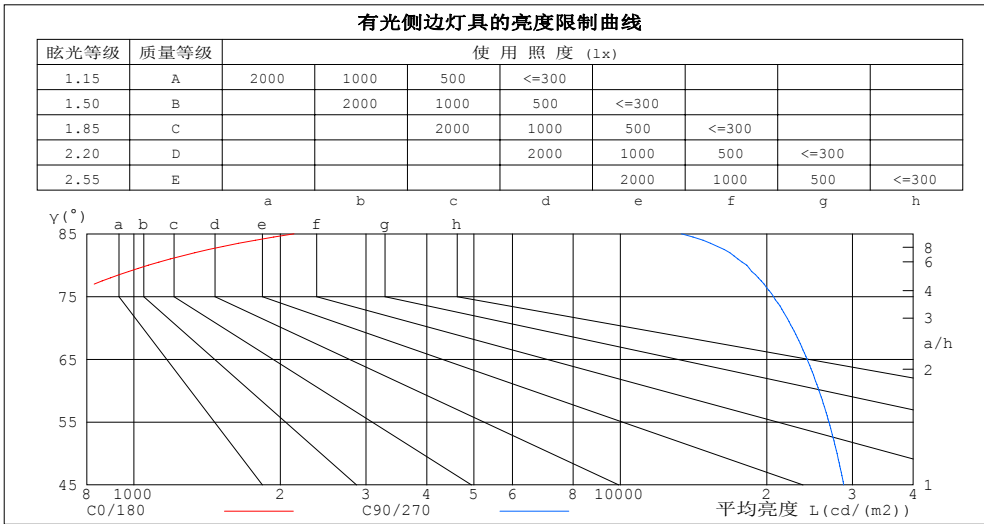
%lamp = 79.8%

C角度范围: 0度 - 360度
C角度间隔: 45.0度
测试速度: 快速
环境温度: 25.3°C
测试人员: weijie
测试日期: 2019-05-28

γ 角度范围: 0度 - 180度
 γ 角度间隔: 0.5度
测试系统: 远方(EVERFINE)GO-2000B_V1系统 V2.0.351
环境湿度: 65.0%
测试距离: 9.490米 [K=1.0000]
备注:

灯具亮度限制曲线

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |



| 平均亮度值 cd/(m2) | | |
|---------------|--------|---------|
| γ(°) | C0/180 | C90/270 |
| 85 | 2133 | 13356 |
| 80 | 1071 | 18190 |
| 75 | 722 | 20645 |
| 70 | 549 | 22577 |
| 65 | 444 | 24214 |
| 60 | 376 | 25604 |
| 55 | 327 | 26842 |
| 50 | 293 | 27904 |
| 45 | 272 | 28783 |

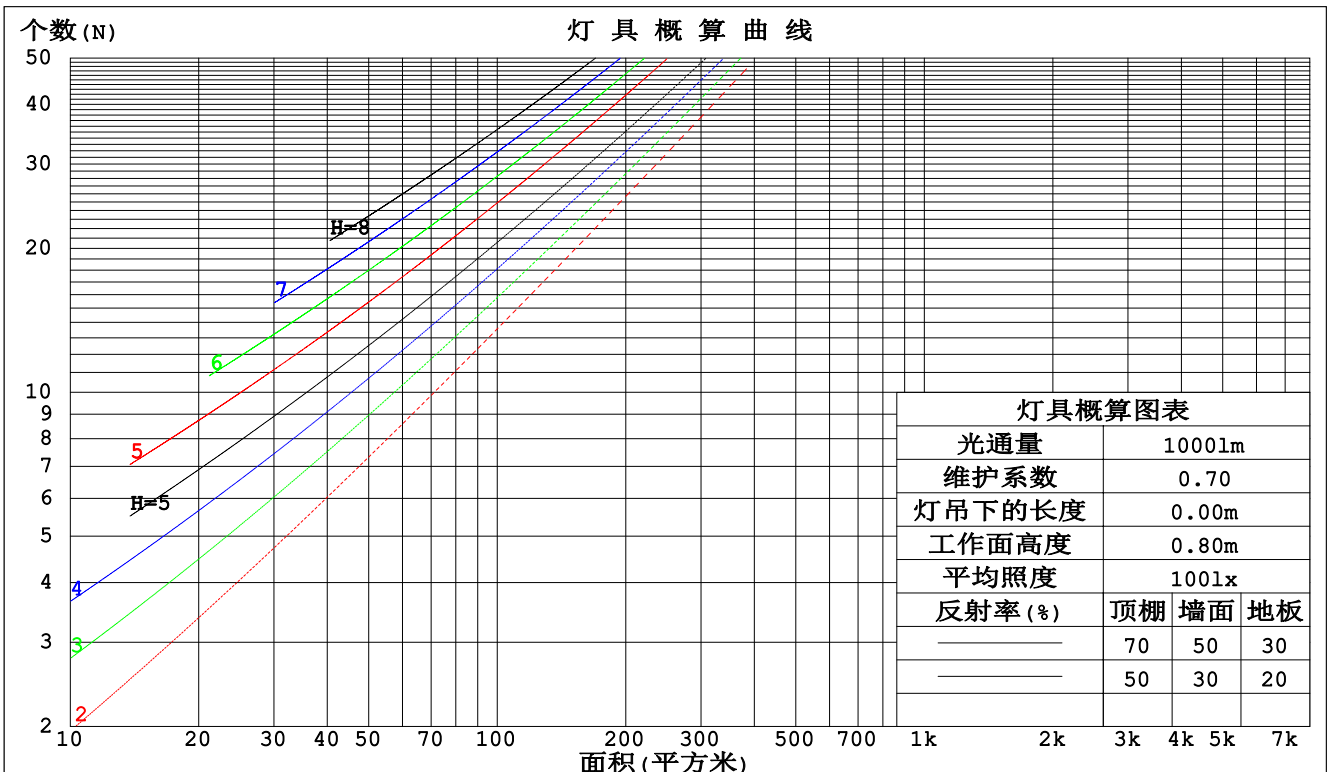
C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

工作面利用系数和灯具概算曲线

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |

| 顶棚 | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 墙面 | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| 地板 | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| 室空间比 | 工作面利用系数 | | | | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.05 | 1.01 | .97 | 1.02 | .99 | .95 | .98 | .95 | .92 | .94 | .92 | .89 | .90 | .88 | .87 | .85 |
| 2.0 | .92 | .85 | .80 | .90 | .84 | .79 | .86 | .81 | .77 | .83 | .79 | .75 | .80 | .76 | .73 | .71 |
| 3.0 | .81 | .73 | .66 | .79 | .72 | .66 | .76 | .70 | .65 | .73 | .68 | .63 | .71 | .66 | .62 | .60 |
| 4.0 | .72 | .63 | .57 | .70 | .62 | .56 | .68 | .61 | .55 | .65 | .59 | .55 | .63 | .58 | .54 | .52 |
| 5.0 | .64 | .55 | .49 | .63 | .55 | .49 | .61 | .54 | .48 | .59 | .53 | .48 | .57 | .51 | .47 | .45 |
| 6.0 | .58 | .49 | .43 | .57 | .49 | .43 | .55 | .48 | .42 | .53 | .47 | .42 | .52 | .46 | .41 | .39 |
| 7.0 | .53 | .44 | .38 | .52 | .44 | .38 | .50 | .43 | .38 | .49 | .42 | .37 | .47 | .42 | .37 | .35 |
| 8.0 | .48 | .40 | .34 | .48 | .40 | .34 | .46 | .39 | .34 | .45 | .38 | .34 | .44 | .38 | .33 | .31 |
| 9.0 | .44 | .36 | .31 | .44 | .36 | .31 | .43 | .36 | .31 | .41 | .35 | .30 | .40 | .35 | .30 | .28 |
| 10.0 | .41 | .33 | .28 | .41 | .33 | .28 | .39 | .33 | .28 | .39 | .32 | .28 | .38 | .32 | .28 | .26 |



C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

墙面和天花板利用系数

| | | | | | | | | |
|---|--|--|--------------------|--|--|----------|--|--|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | | | | | | | |
| 灯具名称: 黑板灯A款 | | | 灯具类型:LED 4000K | | | 灯具重量:N/A | | |
| 灯具规格:MZJ-LED140A-1 | | | 外型尺寸: 1014*68*85mm | | | 测试编号:1 | | |
| 制造厂商: CL | | | 发光口面:0.047*1.009 | | | 遮光角:N/A | | |

| 顶棚 | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 墙面 | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| 地板 | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| 室空间比 | 墙壁面利用系数 | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .292 | .166 | .053 | .285 | .162 | .052 | .271 | .156 | .050 | .259 | .149 | .048 | .247 | .143 | .046 | |
| 2.0 | .279 | .153 | .047 | .273 | .150 | .046 | .261 | .145 | .045 | .250 | .140 | .044 | .240 | .136 | .043 | |
| 3.0 | .261 | .139 | .042 | .255 | .137 | .041 | .244 | .132 | .040 | .235 | .129 | .039 | .226 | .125 | .039 | |
| 4.0 | .242 | .126 | .037 | .237 | .124 | .037 | .227 | .121 | .036 | .219 | .117 | .035 | .211 | .115 | .035 | |
| 5.0 | .224 | .114 | .033 | .220 | .113 | .033 | .211 | .110 | .032 | .204 | .108 | .032 | .197 | .105 | .032 | |
| 6.0 | .208 | .104 | .030 | .204 | .103 | .030 | .197 | .101 | .029 | .190 | .099 | .029 | .184 | .097 | .029 | |
| 7.0 | .194 | .096 | .027 | .191 | .095 | .027 | .184 | .093 | .027 | .178 | .091 | .027 | .172 | .089 | .026 | |
| 8.0 | .182 | .089 | .025 | .179 | .088 | .025 | .173 | .086 | .025 | .167 | .085 | .024 | .162 | .083 | .024 | |
| 9.0 | .170 | .082 | .023 | .168 | .082 | .023 | .162 | .080 | .023 | .157 | .079 | .023 | .153 | .078 | .022 | |
| 10.0 | .160 | .077 | .021 | .158 | .076 | .021 | .153 | .075 | .021 | .149 | .074 | .021 | .144 | .073 | .021 | |

| 顶棚 | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 墙面 | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| 地板 | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| 室空间比 | 天花板利用系数 | | | | | | | | | | | | | | | |
| 0.0 | .194 | .194 | .194 | .166 | .166 | .166 | .113 | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 | |
| 1.0 | .183 | .160 | .140 | .156 | .137 | .120 | .107 | .094 | .083 | .062 | .055 | .048 | .020 | .018 | .016 | |
| 2.0 | .174 | .136 | .103 | .149 | .117 | .089 | .102 | .081 | .062 | .059 | .047 | .037 | .019 | .015 | .012 | |
| 3.0 | .166 | .118 | .079 | .143 | .102 | .069 | .098 | .071 | .048 | .057 | .041 | .028 | .018 | .013 | .009 | |
| 4.0 | .159 | .105 | .063 | .136 | .090 | .055 | .094 | .063 | .039 | .054 | .037 | .023 | .017 | .012 | .008 | |
| 5.0 | .151 | .094 | .052 | .130 | .081 | .045 | .090 | .057 | .032 | .052 | .033 | .019 | .017 | .011 | .006 | |
| 6.0 | .144 | .086 | .044 | .124 | .074 | .038 | .086 | .052 | .027 | .050 | .031 | .016 | .016 | .010 | .005 | |
| 7.0 | .138 | .079 | .038 | .118 | .068 | .033 | .082 | .048 | .023 | .047 | .028 | .014 | .015 | .009 | .005 | |
| 8.0 | .131 | .073 | .033 | .113 | .063 | .029 | .078 | .044 | .020 | .045 | .026 | .012 | .015 | .009 | .004 | |
| 9.0 | .125 | .068 | .029 | .108 | .059 | .026 | .075 | .042 | .018 | .044 | .025 | .011 | .014 | .008 | .004 | |
| 10.0 | .120 | .064 | .027 | .103 | .055 | .023 | .071 | .039 | .017 | .042 | .023 | .010 | .014 | .008 | .003 | |

C角度范围: 0度 - 360度
C角度间隔: 45.0度
测试速度: 快速
环境温度: 25.3℃
测试人员: weijie
测试日期: 2019-05-28

γ角度范围: 0度 - 180度
γ角度间隔: 0.5度
测试系统: 远方(EVERFINE)GO-2000B_V1系统 V2.0.351
环境湿度: 65.0%
测试距离: 9.490米 [K=1.0000]
备注:

UGR(Unified Glare Rating)数据表

| | | | | | | | | | | |
|---|----------------------|------|--------------------|------|------|--------------------|------|------|------|------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | | | | | | | | | |
| 灯具名称: 黑板灯A款 | | | 灯具类型:LED 4000K | | | 灯具重量:N/A | | | | |
| 灯具规格:MZJ-LED140A-1 | | | 外型尺寸: 1014*68*85mm | | | 测试编号:1 | | | | |
| 制造厂商: CL | | | 发光口面:0.047*1.009 | | | 遮光角:N/A | | | | |
| 反射比: 天花板 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| 墙面 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| 工作面 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 房间尺寸 | 交叉(Viewed crosswise) | | | | | 向前(Viewed endwise) | | | | |
| x = 2H y = 2H | 4.8 | 6.3 | 5.1 | 6.5 | 6.7 | 21.4 | 22.9 | 21.7 | 23.1 | 23.3 |
| 3H | 4.9 | 6.3 | 5.2 | 6.5 | 6.7 | 23.4 | 24.7 | 23.7 | 25.0 | 25.2 |
| 4H | 5.1 | 6.4 | 5.4 | 6.6 | 6.9 | 24.2 | 25.4 | 24.5 | 25.7 | 26.0 |
| 6H | 5.5 | 6.7 | 5.9 | 7.0 | 7.3 | 24.7 | 26.0 | 25.1 | 26.2 | 26.5 |
| 8H | 5.9 | 7.1 | 6.2 | 7.3 | 7.6 | 24.9 | 26.1 | 25.3 | 26.4 | 26.7 |
| 12H | 6.4 | 7.6 | 6.8 | 7.9 | 8.2 | 25.0 | 26.2 | 25.4 | 26.5 | 26.8 |
| 4H 2H | 8.7 | 10.0 | 9.0 | 10.2 | 10.5 | 21.2 | 22.5 | 21.5 | 22.7 | 23.0 |
| 3H | 8.6 | 9.7 | 9.0 | 10.0 | 10.4 | 23.2 | 24.4 | 23.6 | 24.7 | 25.0 |
| 4H | 8.7 | 9.7 | 9.1 | 10.0 | 10.4 | 24.2 | 25.2 | 24.6 | 25.5 | 25.9 |
| 6H | 8.9 | 9.8 | 9.3 | 10.2 | 10.6 | 25.0 | 25.9 | 25.4 | 26.2 | 26.6 |
| 8H | 9.1 | 10.0 | 9.6 | 10.4 | 10.8 | 25.2 | 26.1 | 25.7 | 26.5 | 26.9 |
| 12H | 9.5 | 10.3 | 10.0 | 10.7 | 11.1 | 25.4 | 26.2 | 25.8 | 26.6 | 27.0 |
| 8H 4H | 10.9 | 11.8 | 11.3 | 12.1 | 12.5 | 24.1 | 24.9 | 24.5 | 25.3 | 25.7 |
| 6H | 11.1 | 11.8 | 11.5 | 12.2 | 12.6 | 24.9 | 25.6 | 25.4 | 26.0 | 26.5 |
| 8H | 11.3 | 11.9 | 11.7 | 12.3 | 12.8 | 25.3 | 25.9 | 25.7 | 26.3 | 26.8 |
| 12H | 11.6 | 12.1 | 12.1 | 12.6 | 13.1 | 25.5 | 26.0 | 26.0 | 26.5 | 27.0 |
| 12H 4H | 11.6 | 12.4 | 12.0 | 12.8 | 13.2 | 24.0 | 24.8 | 24.4 | 25.2 | 25.6 |
| 6H | 11.8 | 12.4 | 12.2 | 12.8 | 13.3 | 24.9 | 25.5 | 25.3 | 25.9 | 26.4 |
| 8H | 12.0 | 12.5 | 12.4 | 12.9 | 13.4 | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 |
| 不同间隔布灯时,观察者位置引起的UGR变化: | | | | | | | | | | |
| S = 1.0H | + 0.9 / - 1.1 | | | | | + 0.4 / - 0.3 | | | | |
| 1.5H | + 1.0 / - 0.9 | | | | | + 1.1 / - 1.0 | | | | |
| 2.0H | + 1.3 / - 1.2 | | | | | + 1.9 / - 1.9 | | | | |

依据CIE Pub.117计算,表格已按3846lm光源光通进行修正(81log(F/F0) = 4.7)。

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度:25.3℃
 测试人员:weijie
 测试日期:2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方(EVERFINE)GO-2000B_V1系统 V2.0.351
 环境湿度:65.0%
 测试距离:9.490米 [K=1.0000]
 备注:

UF利用系数表

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |

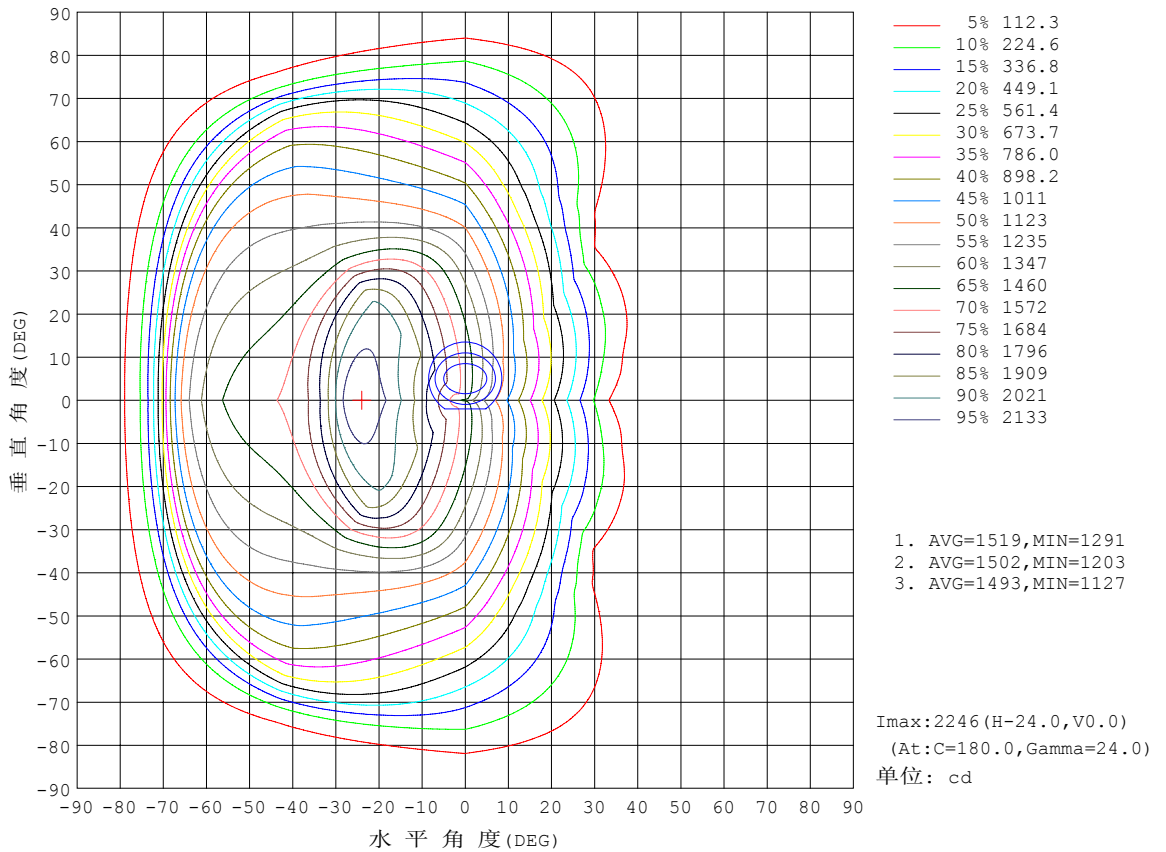
| 反 射 比 / REFLECTANCE | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-----|----------------------|-----|-----|-----|---------|
| 天花板 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| 墙壁 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| 工作面 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| 室形指数 | 利用系数 UTILIZATION FACTORS (%) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 60 | 49 | 42 | 59 | 48 | 42 | 58 | 48 | 41 | 35 |
| 0.80 | 70 | 58 | 51 | 68 | 58 | 51 | 67 | 57 | 51 | 44 |
| 1.00 | 78 | 67 | 60 | 76 | 66 | 60 | 74 | 68 | 59 | 52 |
| 1.25 | 84 | 74 | 68 | 83 | 74 | 67 | 80 | 72 | 66 | 59 |
| 1.50 | 89 | 80 | 73 | 88 | 79 | 73 | 85 | 77 | 72 | 64 |
| 2.00 | 96 | 88 | 82 | 94 | 87 | 81 | 91 | 84 | 79 | 72 |
| 2.50 | 100 | 92 | 87 | 98 | 91 | 86 | 94 | 88 | 84 | 76 |
| 3.00 | 103 | 97 | 91 | 101 | 95 | 90 | 97 | 92 | 88 | 80 |
| 4.00 | 107 | 102 | 97 | 105 | 100 | 96 | 100 | 97 | 93 | 84 |
| 5.00 | 109 | 105 | 101 | 107 | 103 | 100 | 102 | 99 | 96 | 87 |
| ROOM INDEX | UF (总) | | | | | | | | | UF (直接) |
| 依据标准文件 DIN EN 13032-2 2004 | | | 悬挂灯 | | | 安装距高比 SHR NOM = 1.25 | | | | |

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

灯具等光强曲线

| | | |
|---|--------------------|-----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型: LED 4000K | 灯具重量: N/A |
| 灯具规格: MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号: 1 |
| 制造厂商: CL | 发光口面: 0.047*1.009 | 遮光角: N/A |

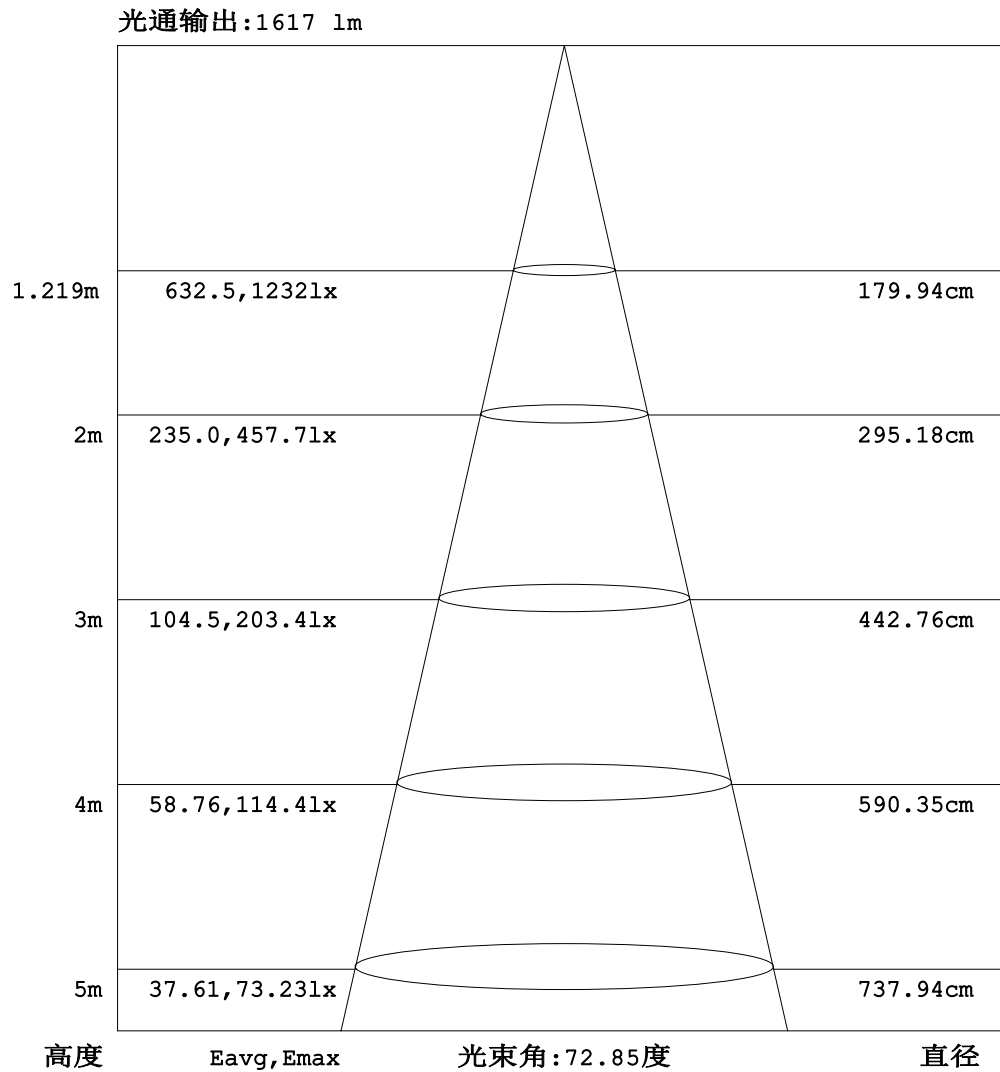


C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

灯具有效平均照度图

| | | |
|---|--------------------|-----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型: LED 4000K | 灯具重量: N/A |
| 灯具规格: MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号: 1 |
| 制造厂商: CL | 发光口面: 0.047*1.009 | 遮光角: N/A |



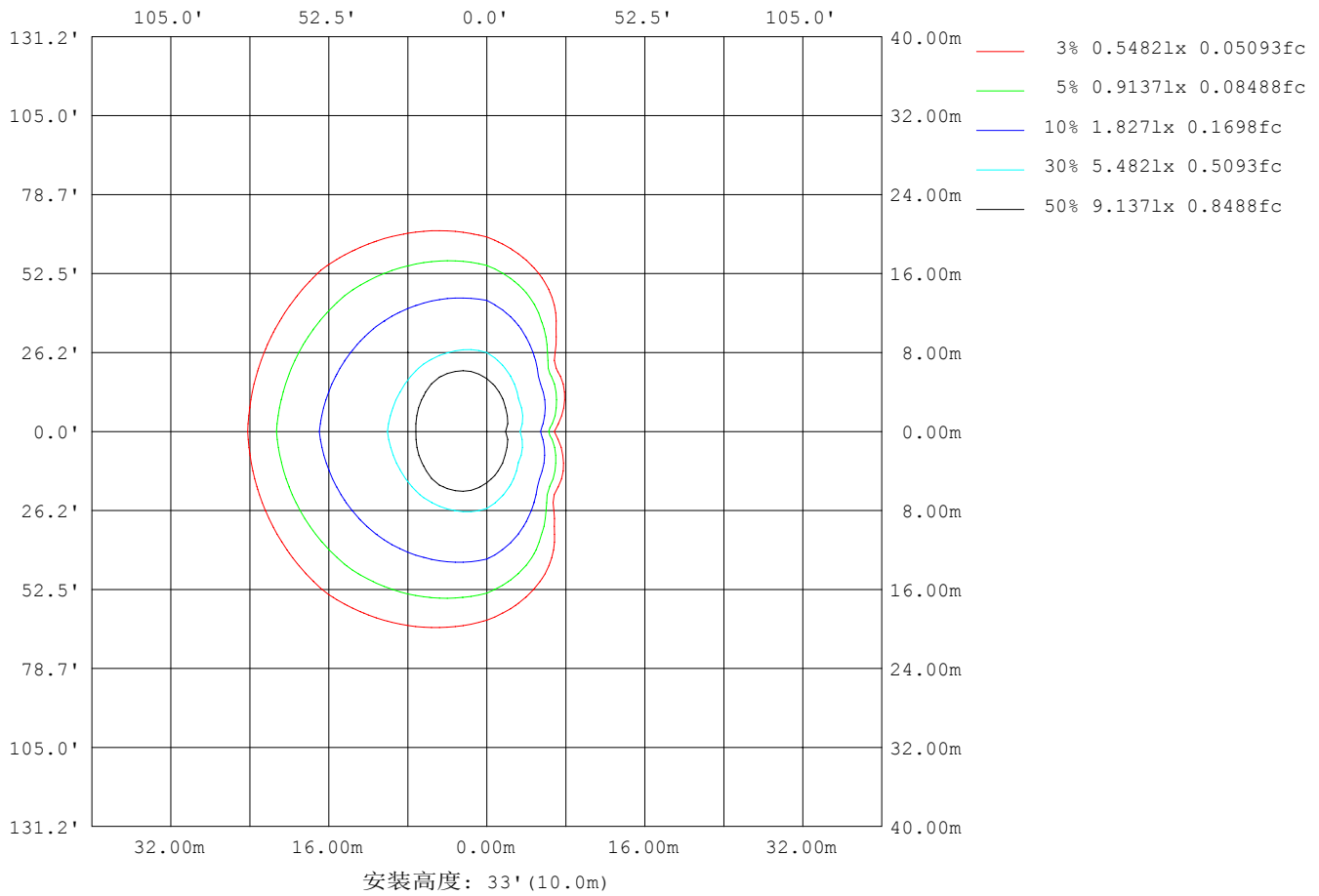
注: 曲线为灯具在不同投射距离下的照射区域及区域内平均照度。

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

平面等照度曲线

| | | |
|---|--------------------|-----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型: LED 4000K | 灯具重量: N/A |
| 灯具规格: MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号: 1 |
| 制造厂商: CL | 发光口面: 0.047*1.009 | 遮光角: N/A |



C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3°C
 测试人员: weijie
 测试日期: 2019-05-28

Y角度范围: 0度 - 180度
 Y角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注:

LED筒灯平均亮度报告

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |

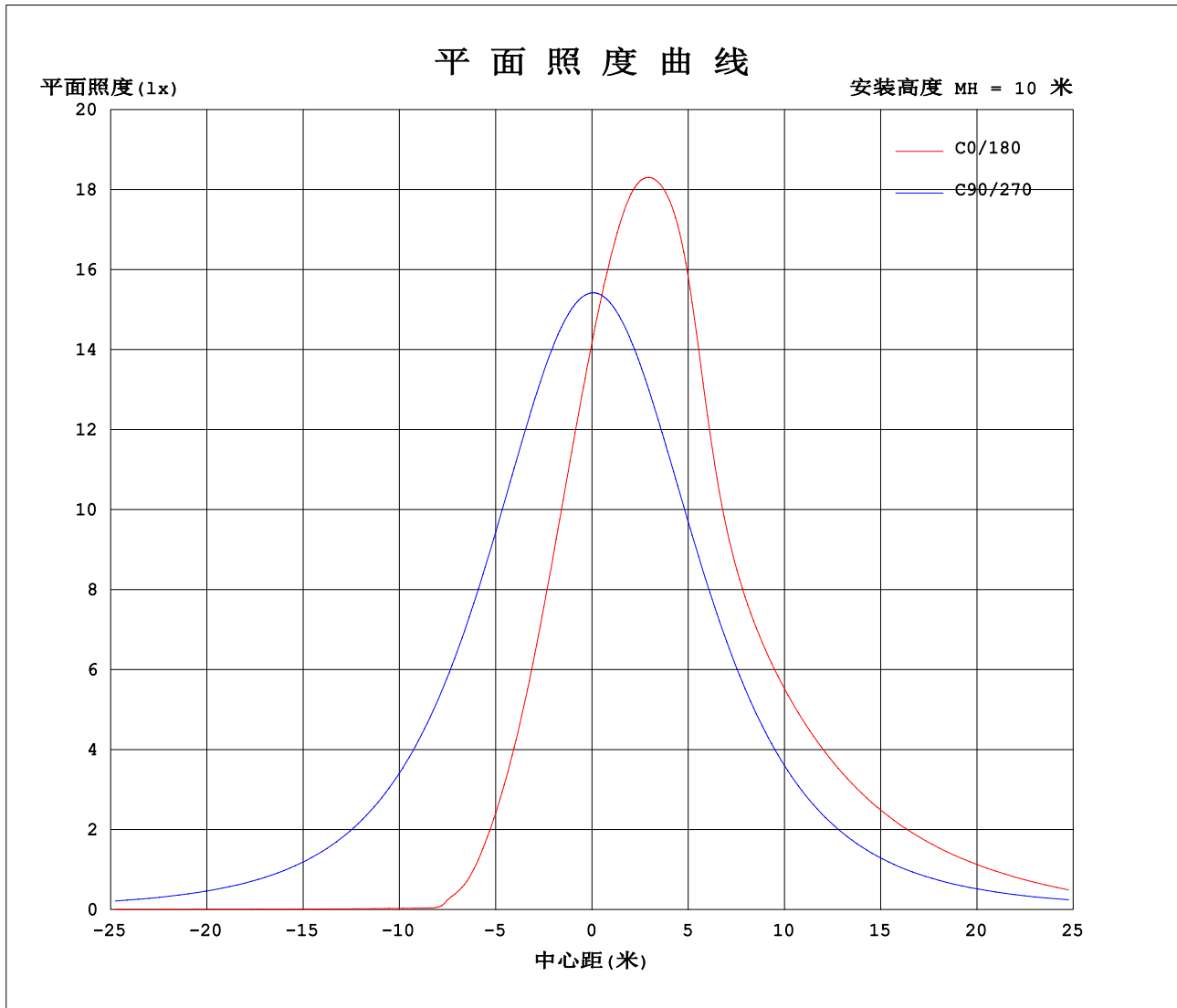
| 平均亮度 | 数值(cd/m ²) |
|-----------|------------------------|
| L横(65)av | 29703 |
| L横(75)av | 10200 |
| L横(85)av | 4313 |
| L纵(65)av | 25678 |
| L纵(75)av | 22805 |
| L纵(85)av | 17868 |
| L45(65)av | 23707 |
| L45(75)av | 15371 |
| L45(85)av | 3101 |

注:依据标准 GB/T 29293-2012 计算

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度:25.3℃
 测试人员:weijie
 测试日期:2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方(EVERFINE)GO-2000B_V1系统 V2.0.351
 环境湿度:65.0%
 测试距离:9.490米 [K=1.0000]
 备注:

平面照度曲线



C角度范围: 0度 - 360度
C角度间隔: 45.0度
测试速度: 快速
环境温度: 25.3℃
测试人员: weijie
测试日期: 2019-05-28

Y角度范围: 0度 - 180度
Y角度间隔: 0.5度
测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
环境湿度: 65.0%
测试距离: 9.490米 [K=1.0000]
备注:

光强分布数据表格

| | | |
|---|--------------------|----------|
| 实测参数: U:220.2V I:0.1792A P:37.87W PF:0.9598 实检光通:3846.02x1 lm | | |
| 灯具名称: 黑板灯A款 | 灯具类型:LED 4000K | 灯具重量:N/A |
| 灯具规格:MZJ-LED140A-1 | 外型尺寸: 1014*68*85mm | 测试编号:1 |
| 制造厂商: CL | 发光口面:0.047*1.009 | 遮光角:N/A |

表--1

单位: cd

| C (DEG) \ γ (DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 1416 | 1509 | 1542 | 1505 | 1416 | 1509 | 1542 | 1505 | | | | | | | | | | | |
| 5 | 1206 | 1354 | 1531 | 1649 | 1629 | 1658 | 1539 | 1355 | | | | | | | | | | | |
| 10 | 995 | 1193 | 1505 | 1783 | 1842 | 1799 | 1520 | 1199 | | | | | | | | | | | |
| 15 | 788 | 1029 | 1464 | 1896 | 2028 | 1918 | 1487 | 1038 | | | | | | | | | | | |
| 20 | 587 | 862 | 1410 | 1976 | 2178 | 2004 | 1438 | 876 | | | | | | | | | | | |
| 25 | 395 | 695 | 1342 | 2023 | 2242 | 2058 | 1377 | 712 | | | | | | | | | | | |
| 30 | 215 | 533 | 1263 | 2004 | 2028 | 2041 | 1304 | 551 | | | | | | | | | | | |
| 35 | 80.2 | 377 | 1173 | 1821 | 1731 | 1856 | 1219 | 395 | | | | | | | | | | | |
| 40 | 9.95 | 229 | 1073 | 1524 | 1608 | 1560 | 1123 | 249 | | | | | | | | | | | |
| 45 | 9.12 | 97.5 | 965 | 1326 | 1562 | 1360 | 1019 | 113 | | | | | | | | | | | |
| 50 | 8.93 | 18.3 | 851 | 1212 | 1531 | 1247 | 907 | 31.8 | | | | | | | | | | | |
| 55 | 8.90 | 11.8 | 730 | 1127 | 1479 | 1161 | 789 | 11.9 | | | | | | | | | | | |
| 60 | 8.90 | 10.9 | 607 | 1038 | 1381 | 1074 | 667 | 10.9 | | | | | | | | | | | |
| 65 | 8.90 | 10.1 | 485 | 920 | 1182 | 960 | 544 | 10.2 | | | | | | | | | | | |
| 70 | 8.90 | 9.39 | 366 | 723 | 709 | 779 | 422 | 9.49 | | | | | | | | | | | |
| 75 | 8.87 | 8.67 | 253 | 331 | 242 | 406 | 306 | 8.77 | | | | | | | | | | | |
| 80 | 8.82 | 8.01 | 150 | 86.8 | 92.3 | 110 | 195 | 8.08 | | | | | | | | | | | |
| 85 | 8.82 | 7.44 | 55.2 | 13.2 | 26.8 | 23.2 | 92.5 | 7.46 | | | | | | | | | | | |
| 90 | 8.38 | 5.98 | 1.07 | 0.02 | 0.09 | 0.04 | 4.78 | 6.80 | | | | | | | | | | | |
| 95 | 1.39 | 1.42 | 0.84 | 0.03 | 0.10 | 0.04 | 0.74 | 1.18 | | | | | | | | | | | |
| 100 | 2.15 | 2.03 | 1.21 | 0.04 | 0.12 | 0.04 | 1.08 | 1.80 | | | | | | | | | | | |
| 105 | 2.94 | 2.70 | 1.64 | 0.08 | 0.13 | 0.04 | 1.49 | 2.48 | | | | | | | | | | | |
| 110 | 3.67 | 3.27 | 2.13 | 0.15 | 0.15 | 0.10 | 1.97 | 3.11 | | | | | | | | | | | |
| 115 | 4.23 | 3.90 | 2.68 | 0.29 | 0.18 | 0.24 | 2.51 | 3.72 | | | | | | | | | | | |
| 120 | 4.79 | 4.61 | 3.20 | 0.49 | 0.21 | 0.41 | 3.03 | 4.40 | | | | | | | | | | | |
| 125 | 5.40 | 5.37 | 3.72 | 0.75 | 0.29 | 0.65 | 3.52 | 5.15 | | | | | | | | | | | |
| 130 | 6.13 | 6.09 | 4.22 | 1.09 | 0.44 | 0.99 | 4.03 | 5.89 | | | | | | | | | | | |
| 135 | 6.85 | 6.67 | 4.68 | 1.49 | 0.68 | 1.36 | 4.48 | 6.50 | | | | | | | | | | | |
| 140 | 7.33 | 7.05 | 5.07 | 1.95 | 1.02 | 1.80 | 4.95 | 6.89 | | | | | | | | | | | |
| 145 | 7.63 | 7.27 | 5.43 | 2.45 | 1.46 | 2.30 | 5.37 | 7.09 | | | | | | | | | | | |
| 150 | 7.76 | 7.40 | 5.77 | 2.99 | 1.95 | 2.89 | 5.73 | 7.25 | | | | | | | | | | | |
| 155 | 7.75 | 7.51 | 6.07 | 3.57 | 2.50 | 3.44 | 6.05 | 7.39 | | | | | | | | | | | |
| 160 | 7.71 | 7.53 | 6.31 | 4.20 | 3.12 | 4.02 | 6.32 | 7.52 | | | | | | | | | | | |
| 165 | 7.69 | 7.52 | 6.50 | 4.85 | 3.87 | 4.66 | 6.55 | 7.53 | | | | | | | | | | | |
| 170 | 7.53 | 7.31 | 6.63 | 5.50 | 4.70 | 5.35 | 6.74 | 7.51 | | | | | | | | | | | |
| 175 | 7.10 | 7.08 | 6.77 | 6.18 | 5.61 | 6.07 | 6.89 | 7.30 | | | | | | | | | | | |
| 180 | 6.54 | 6.68 | 6.93 | 6.88 | 6.51 | 6.68 | 6.93 | 6.88 | | | | | | | | | | | |

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: weijie
 测试日期: 2019-05-28

γ角度范围: 0度 - 180度
 γ角度间隔: 0.5度
 测试系统: 远方 (EVERFINE) GO-2000B_V1系统 V2.0.351
 环境湿度: 65.0%
 测试距离: 9.490米 [K=1.0000]
 备注: