

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2032A-108-UN(30-OL-108WN-AA, CT)

报告编号:

电压(V): 219.2000

测试编号: 20210423004

电流(A): 0.5430

光源规格型号: OL

功率(W): 117.4000

每个光源光通量(lm)

功率因数: 0.9860

光源数量: 108

镇流器型号:

发光面长度(mm): 390

发光面宽度(mm): 240

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 10999.35

灯具效能(lm/w): 93.69

中心光强(cd): 29597.690

最大光强(cd): 29981.380

最大光强角度: $C=30.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=28.8

[C90/270]Total=28.7

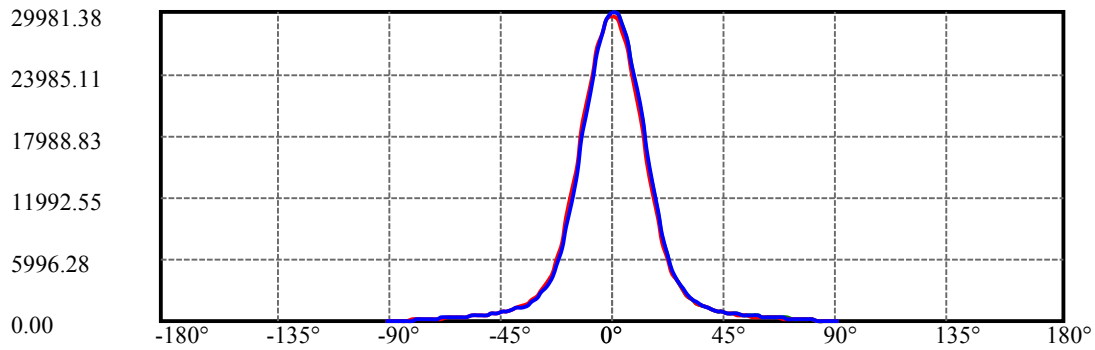
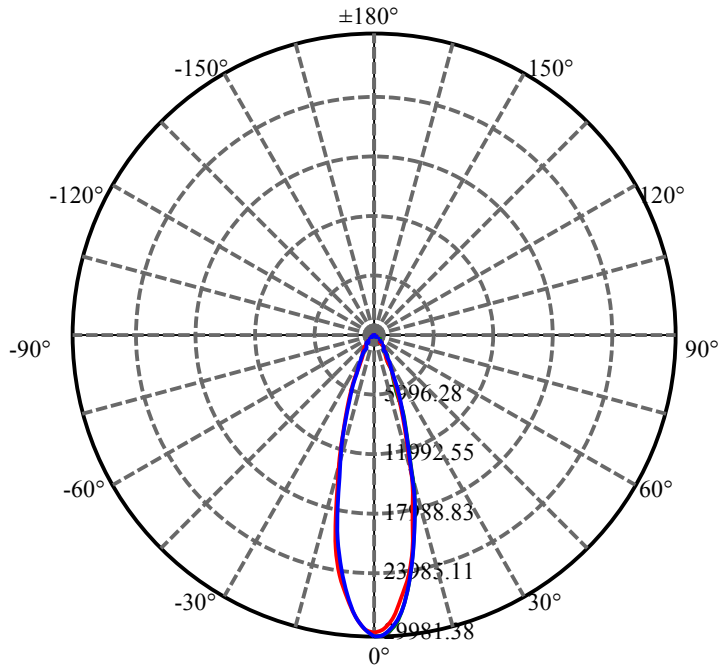
光束扩散角(10%Imax): [C0/180]Total=55.9

[C90/270]Total=55.6

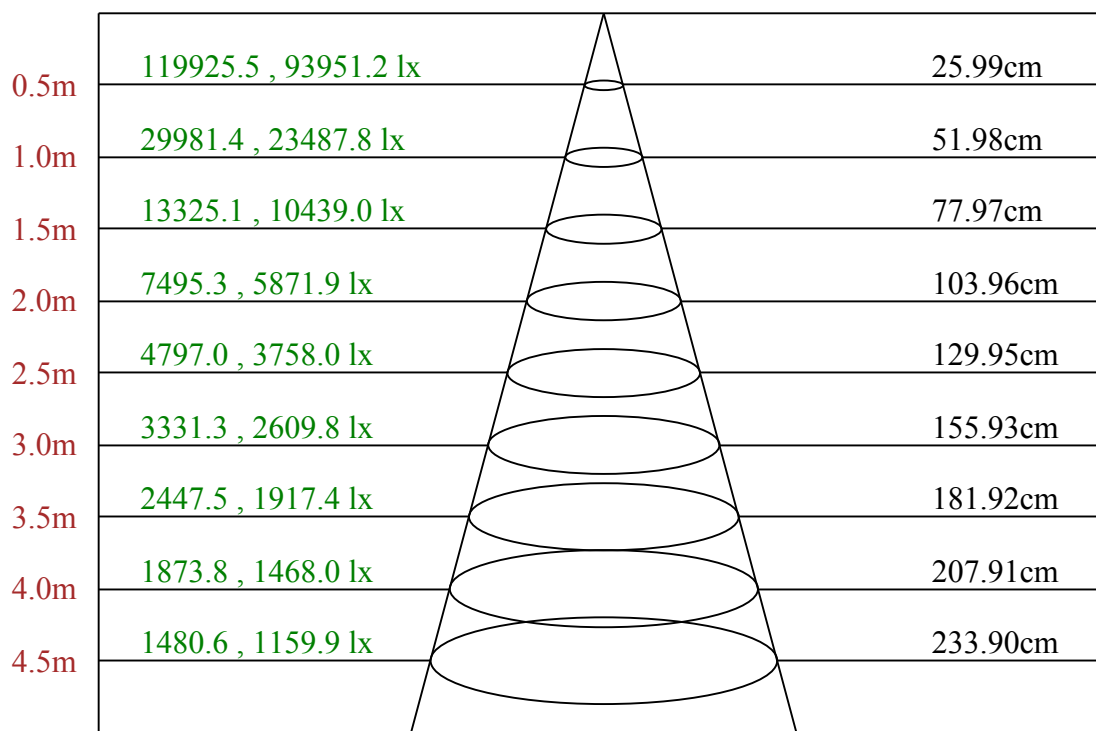
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/23
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

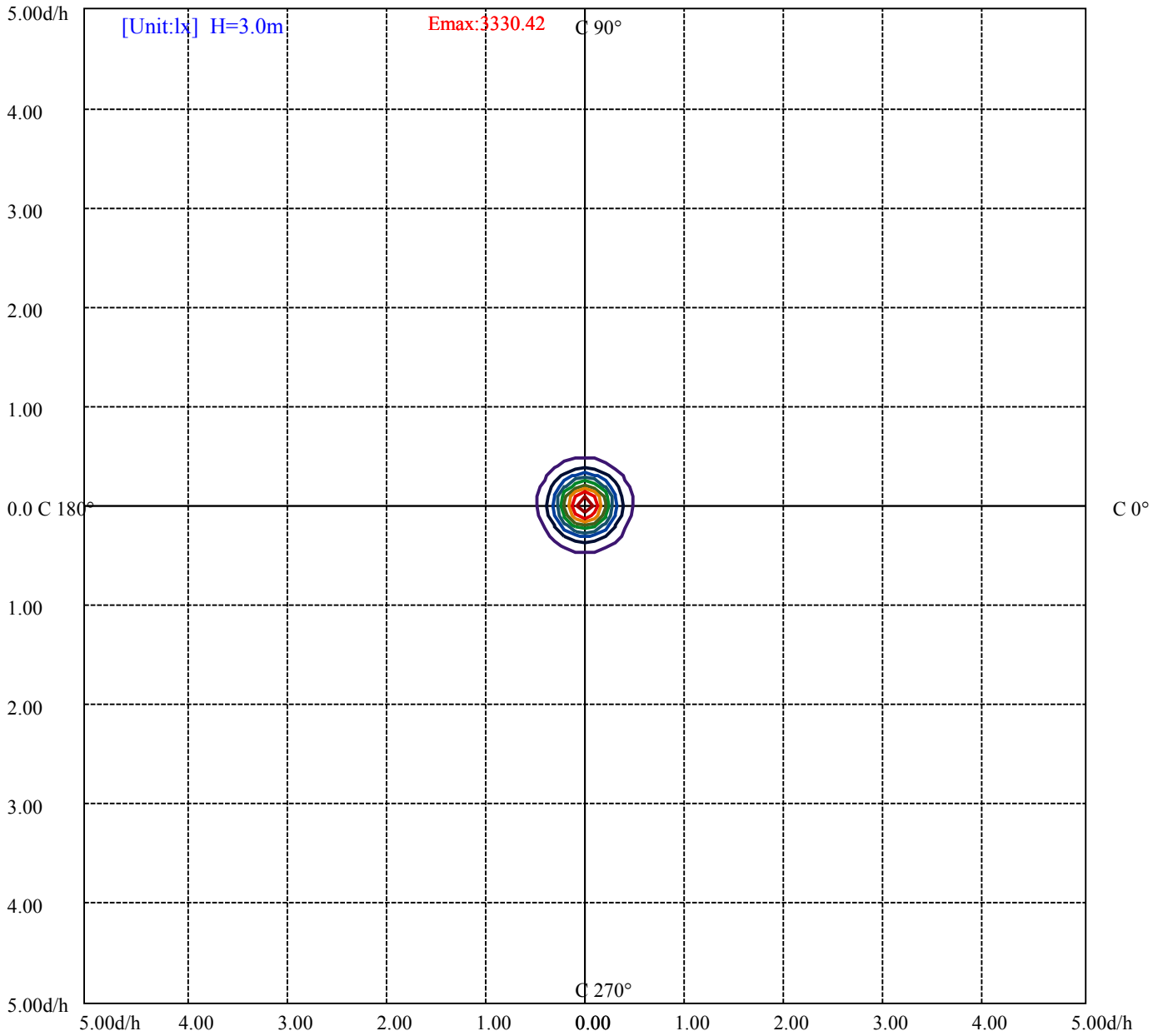











C30(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C30面光束角29.13

ROLED 投光灯
平面等照度曲线



| | |
|--------------------|---|
| (10%Emax) 333.0411 |  |
| (20%Emax) 666.0823 |  |
| (30%Emax) 999.1234 |  |
| (40%Emax) 1332.167 |  |
| (50%Emax) 1665.2 |  |
| (60%Emax) 1998.244 |  |
| (70%Emax) 2331.289 |  |
| (80%Emax) 2664.333 |  |
| (90%Emax) 2997.367 |  |

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环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

ROLED 投光灯

灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

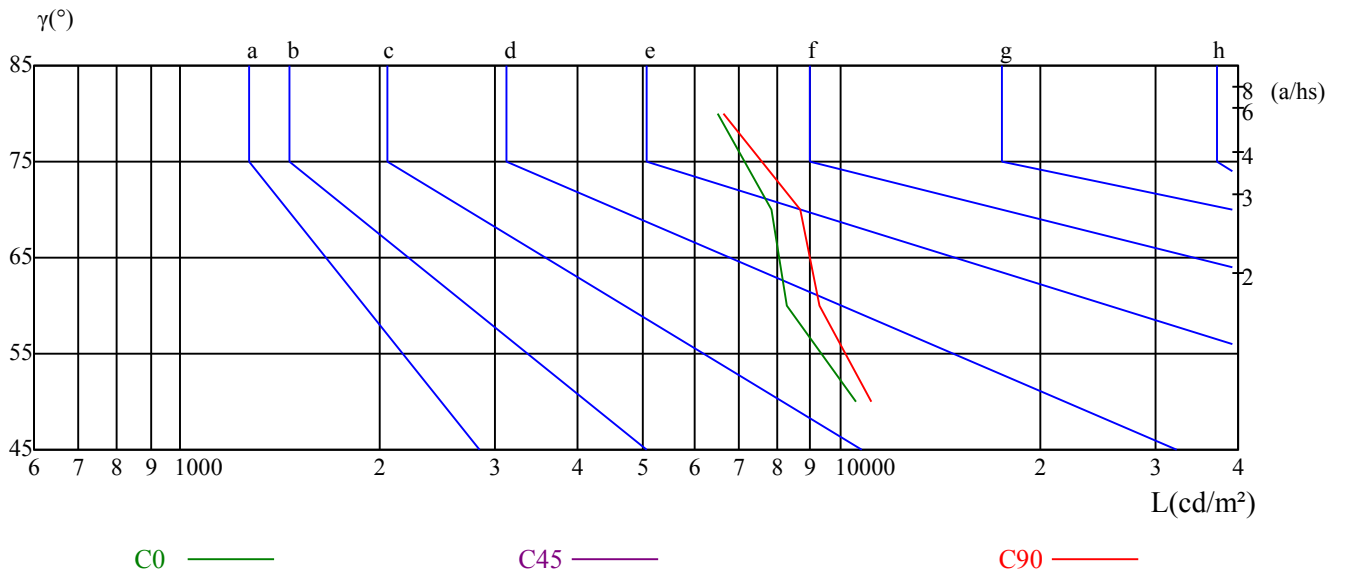
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|-------|----|------|----|------|----|------|----|
| C0 | 0 | 10561 | 0 | 8280 | 0 | 7862 | 0 | 6515 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 11160 | 0 | 9313 | 0 | 8697 | 0 | 6652 | 0 |

| L横(65) | L纵(65) | L45(65) | L横(75) | L纵(75) | L45(75) | L横(85) | L纵(85) | L45(85) |
|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

眩光等级表

| 眩光等级 | 质量等级 | 使用照度(lx) | | | | | | | |
|------|------|----------|------|------|------------|------------|------------|------------|------------|
| 1.15 | A | 2000 | 1000 | 500 | ≤ 300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | ≤ 300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | ≤ 300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | ≤ 300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | ≤ 300 |
| | | a | b | c | d | e | f | g | h |

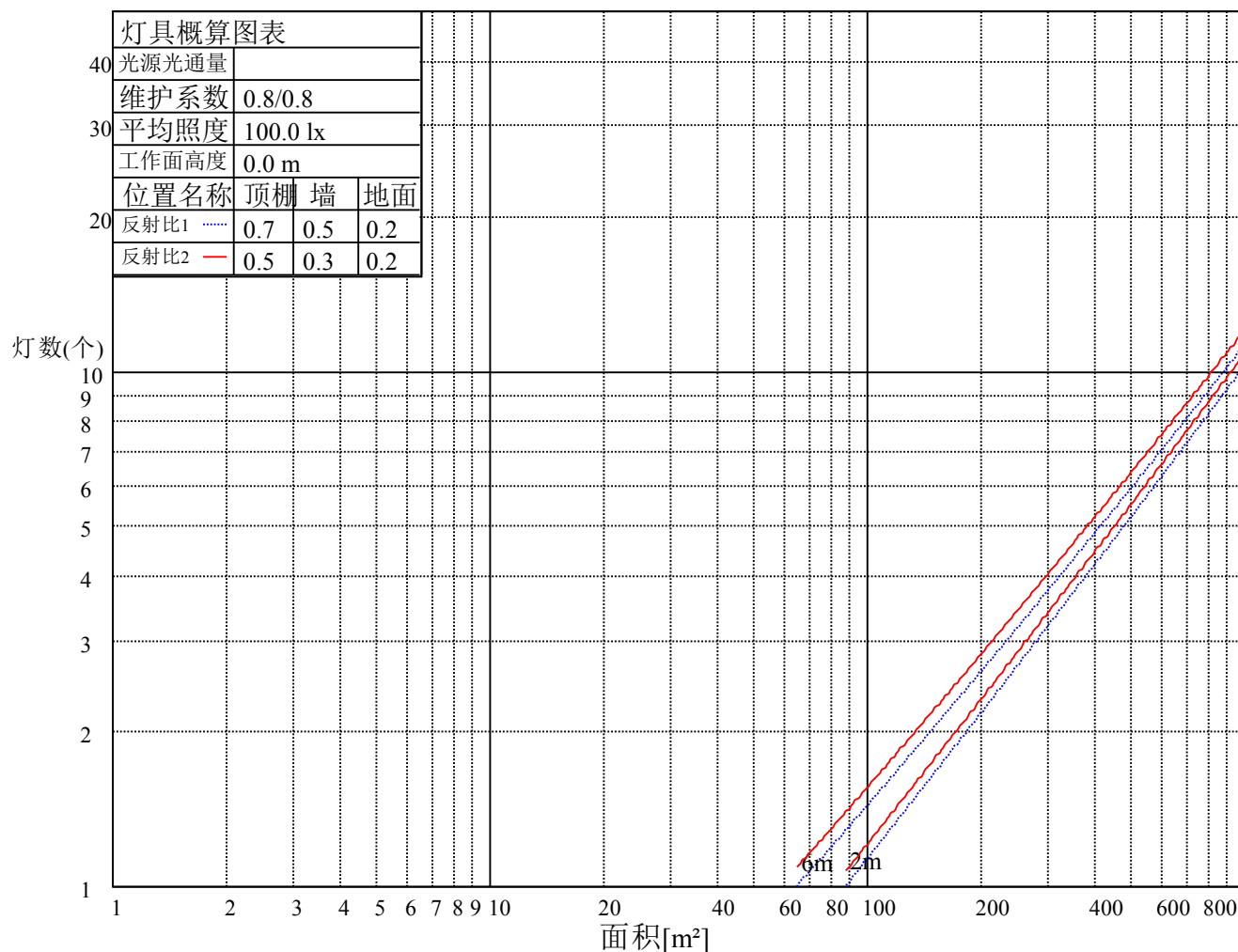
亮度限制曲线



| 参照UGR的照射评估 | | | | | | | | | | | |
|-----------------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|
| 天花板反射率 | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| 墙壁反射率 | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| 地板反射率 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| 空间尺寸 | Viewed crosswise | | | | | Viewed endwise | | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 7.90 | 9.01 | 8.27 | 9.32 | 9.64 | 7.54 | 8.65 | 7.90 | 8.96 | 9.27 |
| | 3H | 9.58 | 10.56 | 9.96 | 10.90 | 11.26 | 9.25 | 10.23 | 9.63 | 10.56 | 10.93 |
| | 4H | 10.17 | 11.08 | 10.57 | 11.43 | 11.82 | 9.91 | 10.83 | 10.32 | 11.18 | 11.57 |
| | 6H | 10.50 | 11.34 | 10.92 | 11.71 | 12.11 | 10.35 | 11.19 | 10.77 | 11.56 | 11.96 |
| | 8H | 10.55 | 11.34 | 10.99 | 11.73 | 12.14 | 10.46 | 11.25 | 10.89 | 11.64 | 12.05 |
| | 12H | 10.57 | 11.32 | 11.00 | 11.70 | 12.14 | 10.54 | 11.29 | 10.97 | 11.68 | 12.11 |
| 4H | 2H | 8.45 | 9.37 | 8.86 | 9.72 | 10.11 | 8.17 | 9.09 | 8.58 | 9.44 | 9.83 |
| | 3H | 10.37 | 11.12 | 10.79 | 11.53 | 11.93 | 10.15 | 10.90 | 10.56 | 11.31 | 11.71 |
| | 4H | 11.07 | 11.74 | 11.51 | 12.16 | 12.61 | 10.94 | 11.62 | 11.38 | 12.04 | 12.49 |
| | 6H | 11.42 | 12.00 | 11.89 | 12.45 | 12.92 | 11.39 | 11.97 | 11.86 | 12.42 | 12.89 |
| | 8H | 11.49 | 12.03 | 11.96 | 12.48 | 12.95 | 11.53 | 12.06 | 12.00 | 12.51 | 12.98 |
| | 12H | 11.50 | 11.97 | 11.99 | 12.46 | 12.93 | 11.61 | 12.07 | 12.10 | 12.56 | 13.04 |
| 8H | 4H | 11.32 | 11.86 | 11.79 | 12.31 | 12.78 | 11.21 | 11.75 | 11.69 | 12.20 | 12.67 |
| | 6H | 11.77 | 12.20 | 12.28 | 12.70 | 13.19 | 11.80 | 12.23 | 12.31 | 12.73 | 13.21 |
| | 8H | 11.89 | 12.27 | 12.41 | 12.79 | 13.28 | 11.99 | 12.37 | 12.52 | 12.89 | 13.39 |
| | 12H | 12.45 | 12.78 | 12.97 | 13.27 | 13.85 | 12.57 | 12.90 | 13.09 | 13.40 | 13.97 |
| 12H | 4H | 11.32 | 11.79 | 11.81 | 12.27 | 12.75 | 11.20 | 11.67 | 11.69 | 12.16 | 12.63 |
| | 6H | 12.18 | 12.18 | 12.33 | 12.65 | 13.20 | 12.20 | 12.20 | 12.35 | 12.67 | 13.21 |
| | 8H | 11.94 | 12.27 | 12.46 | 12.77 | 13.35 | 12.05 | 12.38 | 12.57 | 12.88 | 13.45 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.4/-0.6 | | | | | 0.4/-0.6 | | | | | |
| S = 1.5H | 0.9/-0.9 | | | | | 0.9/-0.9 | | | | | |
| S = 2.0H | 1.9/-1.0 | | | | | 1.7/-1.1 | | | | | |
| 标准表格 | BK3 | | | | | BK3 | | | | | |
| 更正系数 | 2.0 | | | | | 1.8 | | | | | |

ROLED 投光灯

灯具的概算曲线



ROLED 投光灯

灯具的利用系数表

| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION RHOFC=20 CU | | | | | | | | | | | | | | | |
| 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 | 1.00 |
| 1 | 1.10 | 1.08 | 1.05 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.01 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.93 |
| 2 | 1.03 | 0.99 | 0.95 | 1.01 | 0.97 | 0.94 | 0.98 | 0.95 | 0.92 | 0.95 | 0.92 | 0.90 | 0.92 | 0.90 | 0.88 | 0.86 |
| 3 | 0.96 | 0.91 | 0.87 | 0.95 | 0.90 | 0.86 | 0.92 | 0.88 | 0.85 | 0.90 | 0.86 | 0.84 | 0.87 | 0.85 | 0.82 | 0.81 |
| 4 | 0.90 | 0.85 | 0.81 | 0.89 | 0.84 | 0.80 | 0.87 | 0.83 | 0.79 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.78 | 0.76 |
| 5 | 0.85 | 0.80 | 0.76 | 0.84 | 0.79 | 0.75 | 0.83 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.73 | 0.72 |
| 6 | 0.81 | 0.75 | 0.71 | 0.80 | 0.75 | 0.71 | 0.79 | 0.74 | 0.71 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.68 |
| 7 | 0.77 | 0.72 | 0.68 | 0.77 | 0.71 | 0.67 | 0.75 | 0.71 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.66 | 0.65 |
| 8 | 0.74 | 0.68 | 0.64 | 0.73 | 0.68 | 0.64 | 0.72 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.63 | 0.62 |
| 9 | 0.71 | 0.65 | 0.62 | 0.70 | 0.65 | 0.61 | 0.69 | 0.65 | 0.61 | 0.68 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.60 |
| 10 | 0.68 | 0.63 | 0.59 | 0.67 | 0.62 | 0.59 | 0.67 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.61 | 0.59 | 0.57 |

ROLED 投光灯

光强数据表(cd)

附页 第9页 共10页

| C/γ(°) | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.0 | 29597.69 | 29214.00 | 28139.68 | 26397.73 | 24133.98 | 21501.88 | 18455.39 | 15439.61 | 12446.84 |
| 30.0 | 29981.38 | 29804.88 | 28814.97 | 27195.81 | 24978.09 | 22230.88 | 19353.22 | 16206.98 | 13267.93 |
| 60.0 | 29966.03 | 29674.43 | 28661.49 | 27011.64 | 24732.53 | 22131.12 | 19146.03 | 15195.58 | 12947.17 |
| 90.0 | 29896.97 | 29751.17 | 28791.95 | 27211.15 | 25039.48 | 22476.44 | 19499.02 | 16536.95 | 13452.10 |
| 120.0 | 29643.73 | 29352.13 | 28346.87 | 26727.71 | 24494.64 | 21954.63 | 19038.60 | 15174.86 | 12965.58 |
| 150.0 | 29613.04 | 29375.15 | 28423.61 | 26743.05 | 24694.16 | 22031.36 | 19261.14 | 16206.98 | 13175.85 |
| 180.0 | 29597.69 | 29206.33 | 27993.88 | 26359.37 | 24049.56 | 21463.51 | 18532.13 | 15274.62 | 12620.27 |
| 210.0 | 29981.38 | 29382.83 | 28139.68 | 26259.61 | 23819.35 | 20911.00 | 17994.97 | 14847.19 | 11836.77 |
| 240.0 | 29966.03 | 29444.22 | 28170.37 | 26374.71 | 24011.20 | 21148.88 | 18186.81 | 15140.33 | 12139.89 |
| 270.0 | 29896.97 | 29260.05 | 27871.10 | 25937.31 | 23535.42 | 20565.68 | 17634.30 | 14500.34 | 11522.92 |
| 300.0 | 29643.73 | 29198.66 | 27909.47 | 26159.85 | 23811.68 | 21110.51 | 18033.34 | 15017.55 | 12047.80 |
| 330.0 | 29613.04 | 29037.51 | 27817.38 | 25991.03 | 23719.59 | 20826.58 | 17795.45 | 14685.27 | 11857.49 |
| 360.0 | 29597.69 | 29214.00 | 28139.68 | 26397.73 | 24133.98 | 21501.88 | 18455.39 | 15439.61 | 12446.84 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 9906.82 | 7712.13 | 5993.21 | 4627.28 | 3898.27 | 2929.07 | 2416.47 | 2013.59 | 1695.13 |
| 30.0 | 10490.03 | 8126.51 | 6307.83 | 4872.84 | 3898.27 | 3034.97 | 2490.90 | 2055.03 | 1737.34 |
| 60.0 | 10386.43 | 8035.19 | 6242.60 | 4831.40 | 3779.33 | 3053.39 | 2490.90 | 2064.24 | 1738.87 |
| 90.0 | 10674.20 | 8395.09 | 6422.94 | 4964.92 | 3921.29 | 3125.52 | 2538.48 | 2113.35 | 1771.87 |
| 120.0 | 10440.15 | 8104.26 | 6241.84 | 4908.14 | 3850.69 | 3086.39 | 2549.99 | 2115.66 | 1784.15 |
| 150.0 | 10589.79 | 8241.62 | 6338.53 | 4903.53 | 3898.27 | 3110.94 | 2557.66 | 2114.12 | 1775.71 |
| 180.0 | 9992.77 | 7721.34 | 5931.05 | 4664.11 | 3667.29 | 2944.42 | 2437.19 | 2025.87 | 1709.71 |
| 210.0 | 9396.52 | 7243.26 | 5609.52 | 4369.44 | 3450.89 | 2768.69 | 2295.99 | 1910.77 | 1576.96 |
| 240.0 | 9615.22 | 7458.89 | 5693.93 | 4420.09 | 3551.42 | 2853.87 | 2363.52 | 1979.06 | 1673.65 |
| 270.0 | 9117.96 | 7015.35 | 5366.26 | 4238.22 | 3362.64 | 2705.00 | 2228.46 | 1878.54 | 1523.24 |
| 300.0 | 9576.85 | 7443.55 | 5716.95 | 4481.48 | 3703.36 | 2875.36 | 2384.24 | 1996.71 | 1705.11 |
| 330.0 | 9322.85 | 7191.08 | 5586.50 | 4357.93 | 3447.05 | 2772.53 | 2300.59 | 1918.44 | 1636.05 |
| 360.0 | 9906.82 | 7712.13 | 5993.21 | 4627.28 | 3898.27 | 2929.07 | 2416.47 | 2013.59 | 1695.13 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 1463.39 | 1273.84 | 1112.70 | 979.94 | 875.58 | 780.42 | 700.61 | 635.39 | 576.30 |
| 30.0 | 1482.57 | 1282.29 | 1121.90 | 996.05 | 886.32 | 792.70 | 720.57 | 654.57 | 601.62 |
| 60.0 | 1512.27 | 1313.52 | 1160.04 | 1020.30 | 913.64 | 819.79 | 745.51 | 679.51 | 622.11 |
| 90.0 | 1514.03 | 1319.89 | 1156.44 | 1022.14 | 908.57 | 813.42 | 738.98 | 671.45 | 616.20 |
| 120.0 | 1521.48 | 1352.12 | 1187.59 | 1057.21 | 940.50 | 842.89 | 765.84 | 696.55 | 636.38 |
| 150.0 | 1520.17 | 1328.33 | 1164.11 | 1028.28 | 920.08 | 824.93 | 749.73 | 681.43 | 622.34 |
| 180.0 | 1488.71 | 1292.57 | 1131.80 | 1004.19 | 890.23 | 793.85 | 712.82 | 646.28 | 585.43 |
| 210.0 | 1408.06 | 1226.19 | 1082.69 | 954.85 | 856.55 | 769.68 | 702.07 | 640.38 | 586.35 |
| 240.0 | 1442.67 | 1261.57 | 1114.23 | 987.61 | 888.62 | 796.54 | 722.87 | 663.78 | 607.76 |
| 270.0 | 1385.42 | 1219.44 | 1072.48 | 953.93 | 858.00 | 772.44 | 702.53 | 643.91 | 588.96 |
| 300.0 | 1469.53 | 1286.12 | 1128.81 | 1001.43 | 900.13 | 808.81 | 735.91 | 672.99 | 615.44 |
| 330.0 | 1420.11 | 1247.29 | 1088.68 | 971.96 | 868.44 | 781.80 | 714.12 | 651.35 | 598.94 |
| 360.0 | 1463.39 | 1273.84 | 1112.70 | 979.94 | 875.58 | 780.42 | 700.61 | 635.39 | 576.30 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 513.37 | 465.03 | 424.36 | 387.52 | 357.60 | 326.98 | 300.20 | 274.87 | 251.70 |
| 30.0 | 553.28 | 511.07 | 471.94 | 438.17 | 409.01 | 387.52 | 351.77 | 323.91 | 296.90 |
| 60.0 | 574.69 | 530.87 | 491.43 | 457.13 | 423.28 | 390.98 | 359.44 | 324.60 | 291.68 |
| 90.0 | 565.56 | 520.28 | 480.38 | 435.87 | 400.57 | 366.88 | 334.81 | 305.11 | 278.40 |
| 120.0 | 585.97 | 537.70 | 499.49 | 463.11 | 430.42 | 398.04 | 365.42 | 332.50 | 300.12 |
| 150.0 | 570.93 | 527.19 | 478.84 | 441.24 | 411.31 | 387.52 | 354.99 | 326.52 | 293.52 |
| 180.0 | 521.89 | 468.02 | 427.97 | 391.05 | 357.44 | 329.51 | 302.88 | 278.63 | 254.23 |
| 210.0 | 542.38 | 501.10 | 464.11 | 430.88 | 400.88 | 370.03 | 340.79 | 312.09 | 278.17 |
| 240.0 | 559.42 | 517.21 | 478.84 | 443.54 | 411.31 | 387.52 | 341.64 | 310.02 | 279.71 |
| 270.0 | 542.07 | 500.48 | 459.50 | 420.22 | 384.15 | 350.46 | 320.38 | 292.68 | 257.61 |
| 300.0 | 567.09 | 524.12 | 482.68 | 446.61 | 413.62 | 388.29 | 346.01 | 316.01 | 278.48 |
| 330.0 | 551.74 | 509.54 | 472.40 | 440.40 | 408.55 | 377.32 | 349.00 | 320.69 | 289.15 |
| 360.0 | 513.37 | 465.03 | 424.36 | 387.52 | 357.60 | 326.98 | 300.20 | 274.87 | 251.70 |

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环境温度(°C): 25.0

测试日期: 2021/4/23
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测试人员: anpeilou
测试距离(m): 8.76

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光强数据表(cd)

附页 第 10页 共10页

| C/γ(°) | 72.0 | 74.0 | 76.0 | 78.0 | 80.0 | 82.0 | 84.0 | 86.0 | 88.0 |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0.0 | 224.84 | 195.37 | 167.06 | 135.06 | 105.90 | 72.52 | 42.44 | 15.42 | 2.61 |
| 30.0 | 268.35 | 236.66 | 199.36 | 158.92 | 124.16 | 85.03 | 50.88 | 20.72 | 3.84 |
| 60.0 | 257.07 | 226.68 | 183.86 | 145.95 | 107.74 | 70.75 | 38.45 | 8.52 | 4.07 |
| 90.0 | 250.47 | 212.26 | 179.11 | 142.35 | 108.12 | 73.59 | 36.76 | 6.22 | 4.45 |
| 120.0 | 257.92 | 224.69 | 184.17 | 147.11 | 108.20 | 71.44 | 39.37 | 9.75 | 4.14 |
| 150.0 | 266.20 | 237.58 | 203.35 | 162.99 | 127.46 | 88.71 | 52.34 | 22.41 | 3.61 |
| 180.0 | 226.99 | 197.52 | 168.82 | 135.90 | 104.06 | 73.74 | 43.82 | 16.73 | 2.76 |
| 210.0 | 250.24 | 215.10 | 176.34 | 140.97 | 105.74 | 66.38 | 33.38 | 8.90 | 2.76 |
| 240.0 | 250.24 | 204.35 | 163.83 | 126.62 | 90.70 | 55.79 | 21.18 | 4.68 | 3.07 |
| 270.0 | 218.01 | 185.01 | 149.10 | 113.88 | 77.58 | 44.28 | 10.13 | 4.14 | 2.84 |
| 300.0 | 247.17 | 201.51 | 161.23 | 124.70 | 91.32 | 54.87 | 20.72 | 4.60 | 3.07 |
| 330.0 | 257.38 | 222.77 | 181.94 | 147.57 | 106.13 | 68.14 | 34.92 | 9.44 | 2.76 |
| 360.0 | 224.84 | 195.37 | 167.06 | 135.06 | 105.90 | 72.52 | 42.44 | 15.42 | 2.61 |
| C/γ(°) | 90.0 | | | | | | | | |
| 0.0 | 0.92 | | | | | | | | |
| 30.0 | 1.69 | | | | | | | | |
| 60.0 | 2.07 | | | | | | | | |
| 90.0 | 2.30 | | | | | | | | |
| 120.0 | 2.07 | | | | | | | | |
| 150.0 | 1.76 | | | | | | | | |
| 180.0 | 1.30 | | | | | | | | |
| 210.0 | 0.92 | | | | | | | | |
| 240.0 | 0.84 | | | | | | | | |
| 270.0 | 0.84 | | | | | | | | |
| 300.0 | 0.92 | | | | | | | | |
| 330.0 | 0.92 | | | | | | | | |
| 360.0 | 0.92 | | | | | | | | |