

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2031A-48-UN(60-OL-48WN-AA, P1)

报告编号:

电压(V): 219.5000

测试编号: 20210421006

电流(A): 0.1990

光源规格型号: OL

功率(W): 42.0000

每个光源光通量(lm)

功率因数: 0.9620

光源数量: 48

镇流器型号:

发光面长度(mm): 300

发光面宽度(mm): 165

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 4865.48

灯具效能(lm/w): 115.84

中心光强(cd): 4720.897

最大光强(cd): 4736.245

最大光强角度: $C=30.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=53.8

[C90/270]Total=53.9

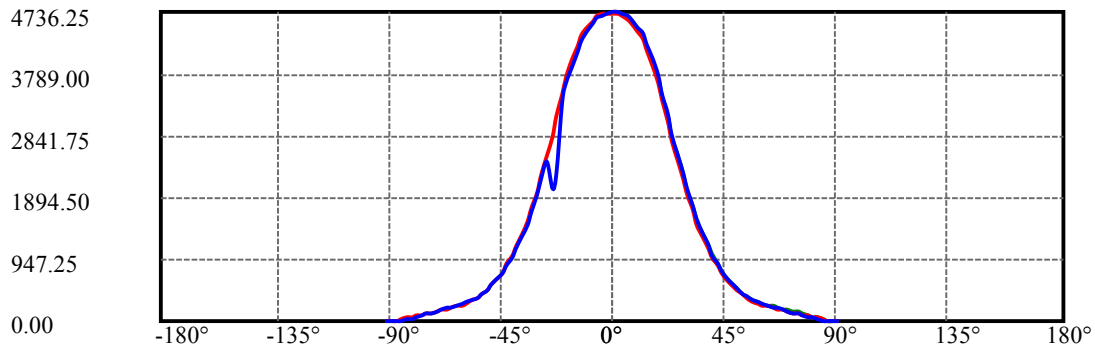
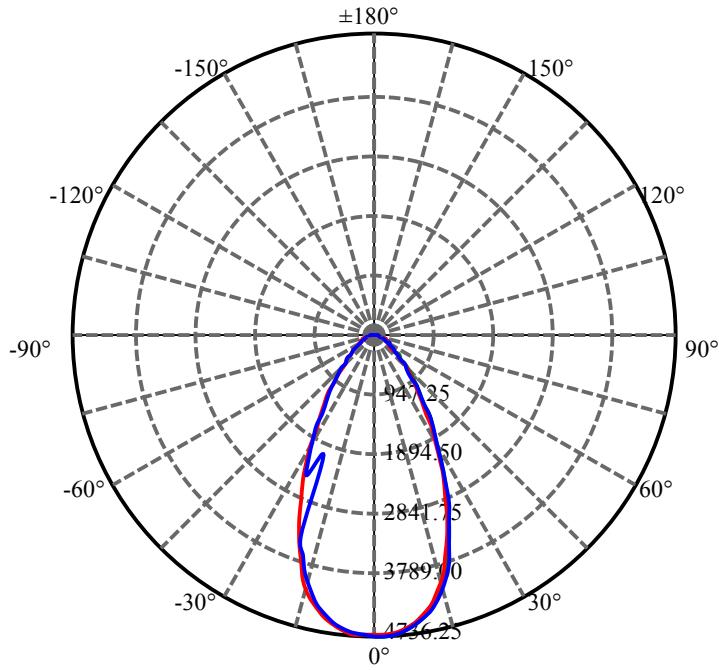
光束扩散角(10%Imax): [C0/180]Total=99.8

[C90/270]Total=100.6

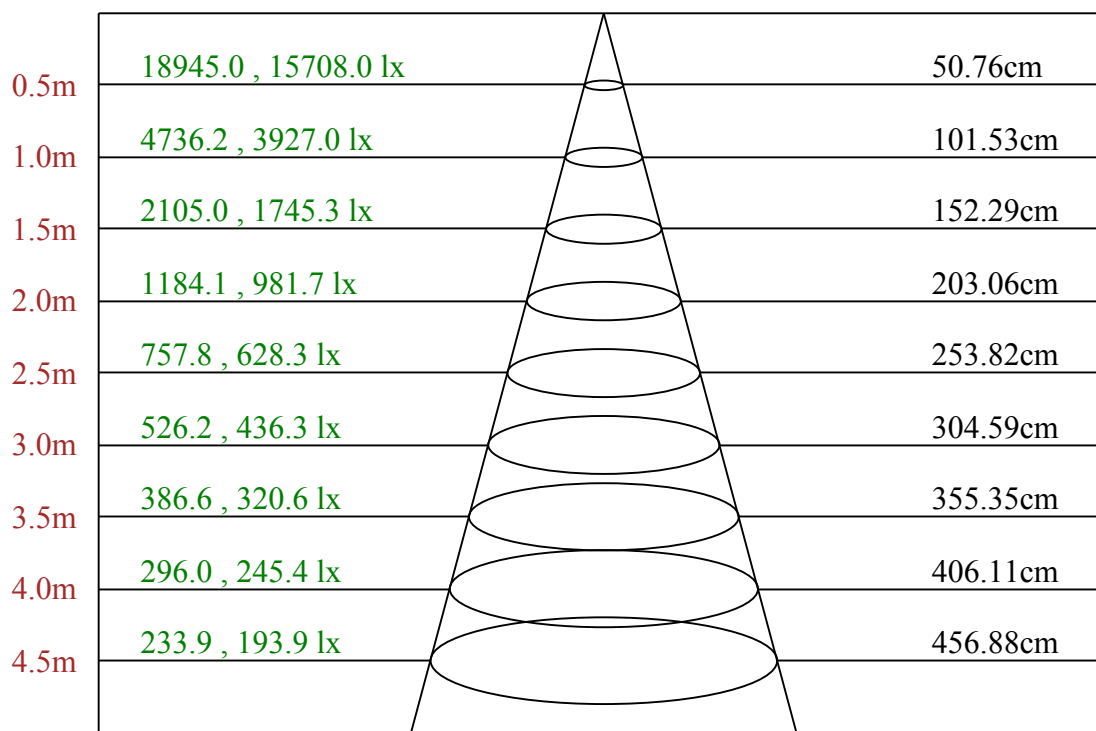
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/21
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

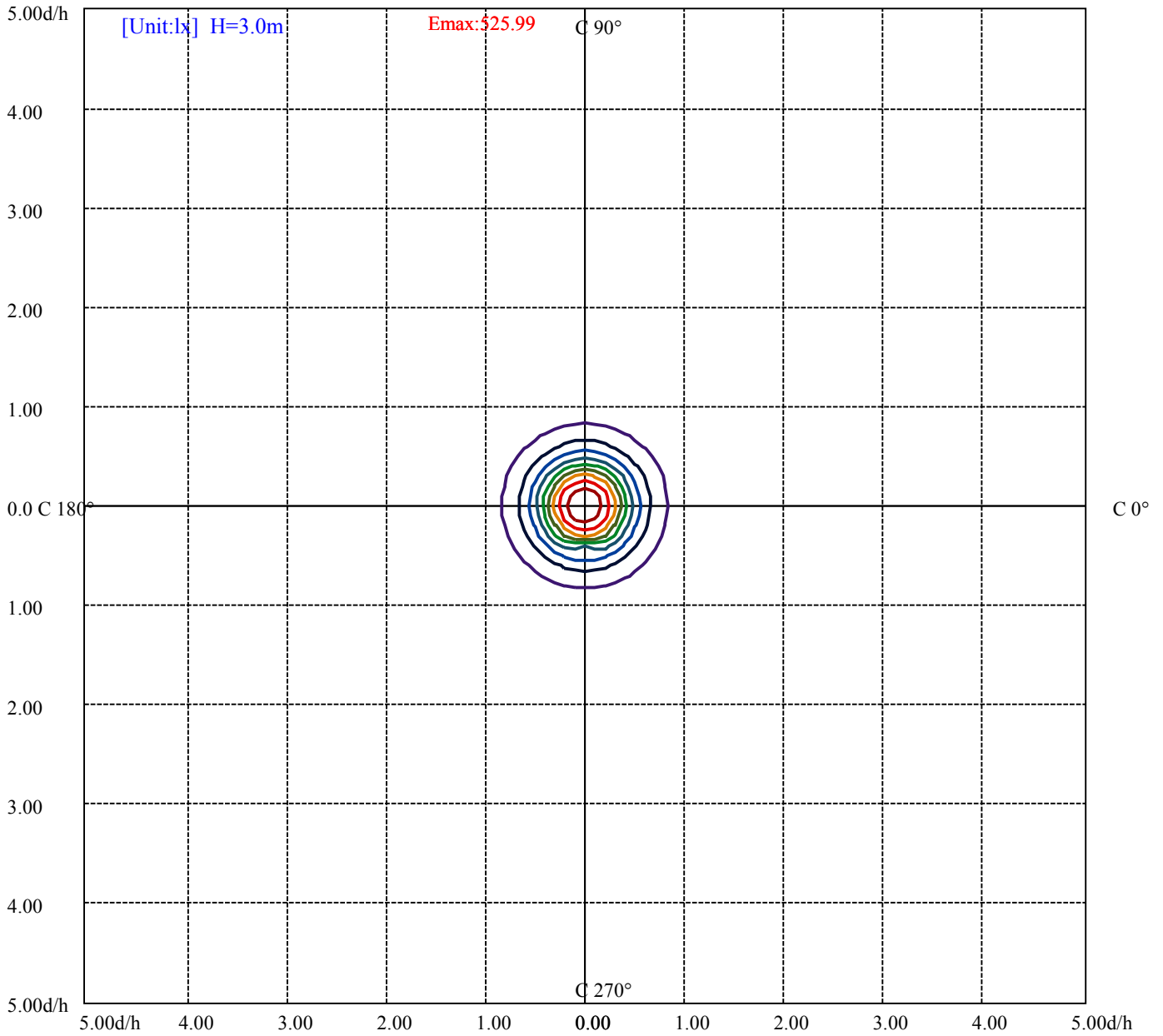


C30(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C30面光束角53.83

ROLED 投光灯
平面等照度曲线



| | |
|--------------------|---|
| (10%Emax) 52.59933 | — |
| (20%Emax) 105.1987 | — |
| (30%Emax) 157.7978 | — |
| (40%Emax) 210.3978 | — |
| (50%Emax) 262.9967 | — |
| (60%Emax) 315.5967 | — |
| (70%Emax) 368.1956 | — |
| (80%Emax) 420.7944 | — |
| (90%Emax) 473.3944 | — |

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环境湿度(%): 60.0%

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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

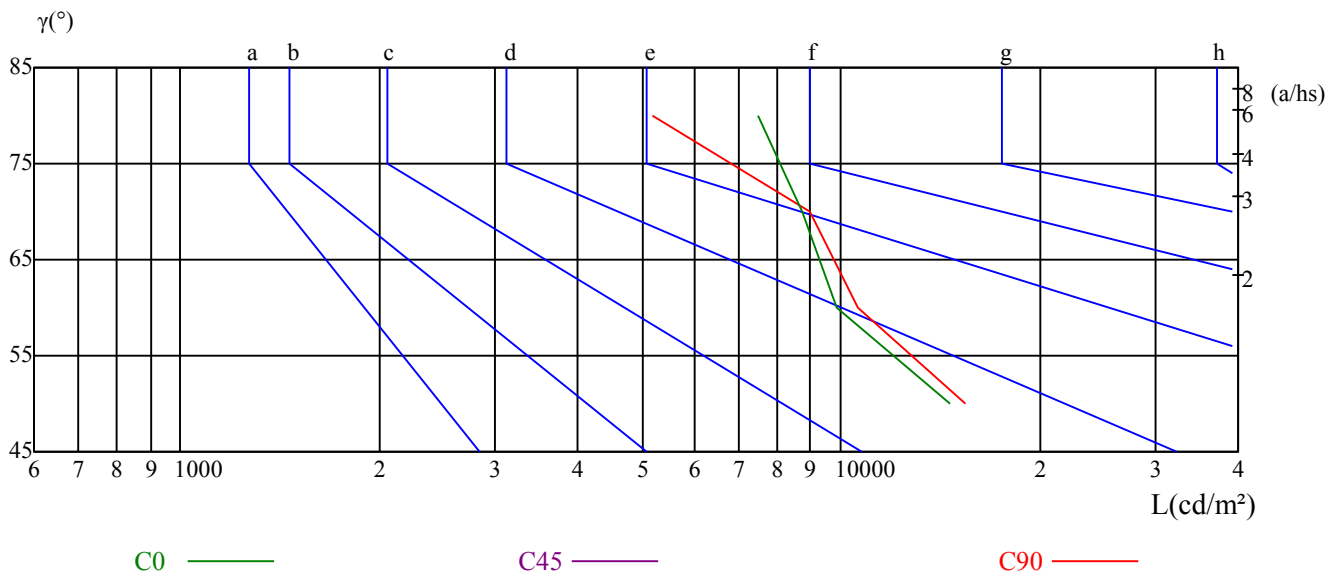
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|-------|----|-------|----|------|----|------|----|
| C0 | 0 | 14615 | 0 | 9881 | 0 | 8734 | 0 | 7472 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 15411 | 0 | 10632 | 0 | 9006 | 0 | 5187 | 0 |

| 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 |

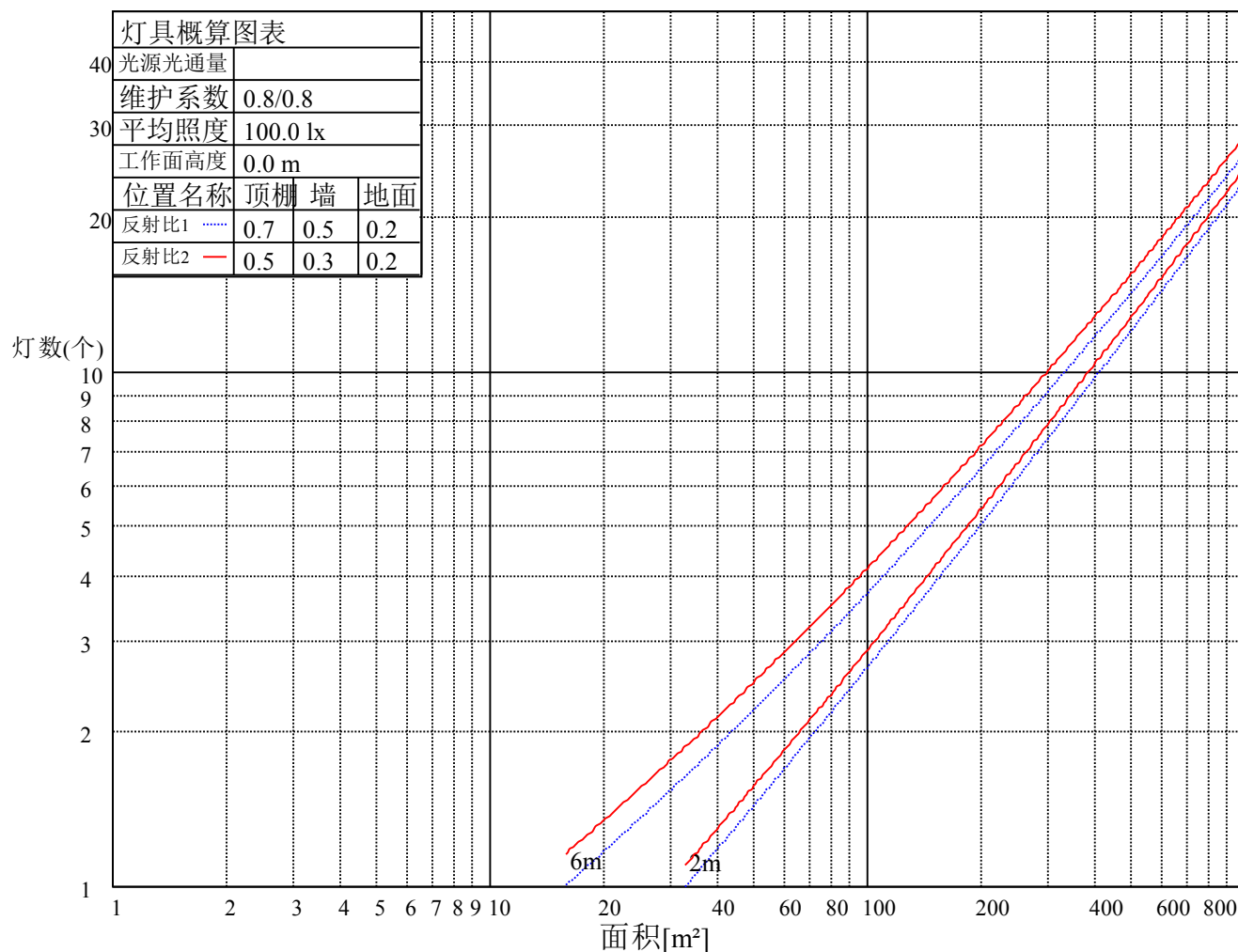
亮度限制曲线



| 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 | 12.38 | 13.61 | 12.75 | 13.93 | 14.24 | 12.12 | 13.35 | 12.49 | 13.66 | 13.98 |
| | 3H | 13.87 | 14.96 | 14.25 | 15.29 | 15.66 | 13.64 | 14.73 | 14.02 | 15.06 | 15.43 |
| | 4H | 14.37 | 15.39 | 14.77 | 15.74 | 16.13 | 14.25 | 15.27 | 14.66 | 15.62 | 16.01 |
| | 6H | 14.61 | 15.54 | 15.02 | 15.91 | 16.31 | 14.68 | 15.62 | 15.10 | 15.99 | 16.38 |
| | 8H | 14.62 | 15.51 | 15.05 | 15.90 | 16.30 | 14.79 | 15.67 | 15.22 | 16.06 | 16.47 |
| | 12H | 14.61 | 15.45 | 15.04 | 15.83 | 16.26 | 14.87 | 15.71 | 15.30 | 16.10 | 16.53 |
| 4H | 2H | 12.86 | 13.88 | 13.27 | 14.23 | 14.62 | 12.65 | 13.67 | 13.06 | 14.02 | 14.41 |
| | 3H | 14.63 | 15.46 | 15.04 | 15.87 | 16.27 | 14.46 | 15.29 | 14.87 | 15.70 | 16.10 |
| | 4H | 15.25 | 16.00 | 15.69 | 16.42 | 16.86 | 15.22 | 15.96 | 15.65 | 16.38 | 16.83 |
| | 6H | 15.52 | 16.17 | 15.99 | 16.61 | 17.08 | 15.66 | 16.31 | 16.13 | 16.75 | 17.22 |
| | 8H | 15.55 | 16.15 | 16.02 | 16.60 | 17.07 | 15.80 | 16.40 | 16.27 | 16.85 | 17.32 |
| | 12H | 15.53 | 16.06 | 16.02 | 16.54 | 17.02 | 15.88 | 16.40 | 16.37 | 16.89 | 17.36 |
| 8H | 4H | 15.50 | 16.10 | 15.97 | 16.55 | 17.02 | 15.47 | 16.07 | 15.95 | 16.52 | 16.99 |
| | 6H | 15.86 | 16.35 | 16.36 | 16.84 | 17.33 | 16.04 | 16.53 | 16.55 | 17.03 | 17.51 |
| | 8H | 15.92 | 16.35 | 16.44 | 16.87 | 17.36 | 16.23 | 16.66 | 16.76 | 17.18 | 17.67 |
| | 12H | 16.46 | 16.84 | 16.98 | 17.34 | 17.91 | 16.79 | 17.17 | 17.31 | 17.67 | 18.24 |
| 12H | 4H | 15.50 | 16.03 | 15.99 | 16.51 | 16.99 | 15.46 | 15.99 | 15.95 | 16.47 | 16.95 |
| | 6H | 16.39 | 16.32 | 16.41 | 16.79 | 17.33 | 16.56 | 16.49 | 16.58 | 16.96 | 17.50 |
| | 8H | 15.97 | 16.35 | 16.48 | 16.84 | 17.42 | 16.27 | 16.65 | 16.79 | 17.15 | 17.72 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.7/-1.0 | | | | | 0.7/-1.1 | | | | | |
| S = 1.5H | 1.5/-1.4 | | | | | 1.4/-1.4 | | | | | |
| S = 2.0H | 3.2/-1.6 | | | | | 2.8/-1.5 | | | | | |
| 标准表格 | BK3 | | | | | BK3 | | | | | |
| 更正系数 | 4.0 | | | | | 4.0 | | | | | |

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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 | 1.09 | 1.06 | 1.03 | 1.06 | 1.04 | 1.01 | 1.02 | 1.00 | 0.98 | 0.99 | 0.97 | 0.95 | 0.95 | 0.94 | 0.92 | 0.90 |
| 2 | 0.99 | 0.94 | 0.90 | 0.97 | 0.93 | 0.89 | 0.94 | 0.90 | 0.87 | 0.91 | 0.88 | 0.85 | 0.88 | 0.86 | 0.83 | 0.81 |
| 3 | 0.91 | 0.85 | 0.80 | 0.89 | 0.84 | 0.79 | 0.87 | 0.82 | 0.78 | 0.84 | 0.80 | 0.77 | 0.82 | 0.78 | 0.76 | 0.74 |
| 4 | 0.84 | 0.77 | 0.72 | 0.82 | 0.76 | 0.71 | 0.80 | 0.75 | 0.71 | 0.78 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.67 |
| 5 | 0.77 | 0.70 | 0.65 | 0.76 | 0.70 | 0.65 | 0.74 | 0.69 | 0.64 | 0.73 | 0.68 | 0.64 | 0.71 | 0.67 | 0.63 | 0.62 |
| 6 | 0.72 | 0.65 | 0.60 | 0.71 | 0.64 | 0.60 | 0.69 | 0.64 | 0.59 | 0.68 | 0.63 | 0.59 | 0.66 | 0.62 | 0.58 | 0.57 |
| 7 | 0.67 | 0.60 | 0.55 | 0.66 | 0.60 | 0.55 | 0.65 | 0.59 | 0.55 | 0.64 | 0.58 | 0.54 | 0.62 | 0.58 | 0.54 | 0.52 |
| 8 | 0.63 | 0.56 | 0.51 | 0.62 | 0.56 | 0.51 | 0.61 | 0.55 | 0.51 | 0.60 | 0.54 | 0.51 | 0.59 | 0.54 | 0.50 | 0.49 |
| 9 | 0.59 | 0.52 | 0.48 | 0.58 | 0.52 | 0.48 | 0.57 | 0.51 | 0.47 | 0.56 | 0.51 | 0.47 | 0.55 | 0.51 | 0.47 | 0.46 |
| 10 | 0.55 | 0.49 | 0.45 | 0.55 | 0.49 | 0.45 | 0.54 | 0.48 | 0.44 | 0.53 | 0.48 | 0.44 | 0.52 | 0.48 | 0.44 | 0.43 |

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 | 4720.90 | 4707.85 | 4680.99 | 4631.11 | 4558.98 | 4451.55 | 4312.65 | 4137.69 | 3922.06 |
| 30.0 | 4736.24 | 4730.87 | 4712.46 | 4674.09 | 4604.26 | 4498.36 | 4367.90 | 4195.24 | 3975.01 |
| 60.0 | 4731.64 | 4726.27 | 4707.85 | 4668.72 | 4594.28 | 4492.99 | 4354.86 | 4171.46 | 3943.55 |
| 90.0 | 4727.04 | 4724.73 | 4710.92 | 4675.62 | 4609.63 | 4514.47 | 4398.60 | 4233.61 | 4025.65 |
| 120.0 | 4723.97 | 4717.83 | 4705.55 | 4672.55 | 4605.02 | 4509.10 | 4381.72 | 4205.22 | 3988.05 |
| 150.0 | 4720.13 | 4718.60 | 4706.32 | 4680.99 | 4627.28 | 4524.45 | 4402.44 | 4238.99 | 4031.03 |
| 180.0 | 4720.90 | 4717.83 | 4702.48 | 4668.72 | 4602.72 | 4504.50 | 4384.79 | 4215.96 | 4008.00 |
| 210.0 | 4736.24 | 4727.04 | 4707.85 | 4666.41 | 4589.68 | 4473.80 | 4324.16 | 4131.55 | 3902.87 |
| 240.0 | 4731.64 | 4721.66 | 4700.18 | 4662.58 | 4589.68 | 4476.87 | 4332.60 | 4152.27 | 3914.38 |
| 270.0 | 4727.04 | 4710.92 | 4684.83 | 4638.02 | 4558.21 | 4449.25 | 4308.05 | 4121.58 | 3889.83 |
| 300.0 | 4723.97 | 4706.32 | 4684.06 | 4645.69 | 4572.03 | 4454.62 | 4318.79 | 4141.53 | 3910.55 |
| 330.0 | 4720.13 | 4701.71 | 4674.09 | 4631.11 | 4546.70 | 4440.04 | 4292.70 | 4105.46 | 3866.81 |
| 360.0 | 4720.90 | 4707.85 | 4680.99 | 4631.11 | 4558.98 | 4451.55 | 4312.65 | 4137.69 | 3922.06 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 3658.08 | 3372.62 | 3072.57 | 2757.95 | 2461.74 | 2180.12 | 1936.09 | 1700.51 | 1481.04 |
| 30.0 | 3730.98 | 3451.66 | 3162.36 | 2833.92 | 2548.46 | 2266.83 | 2012.06 | 1766.50 | 1545.50 |
| 60.0 | 3697.98 | 3410.99 | 3097.13 | 2802.46 | 2503.18 | 2237.67 | 1975.99 | 1733.50 | 1525.24 |
| 90.0 | 3770.12 | 3482.35 | 3164.66 | 2856.94 | 2549.22 | 2269.13 | 2015.13 | 1760.36 | 1544.73 |
| 120.0 | 3730.98 | 3449.36 | 3114.01 | 2815.50 | 2512.39 | 2239.97 | 1978.30 | 1736.57 | 1525.62 |
| 150.0 | 3773.96 | 3490.79 | 3192.28 | 2870.75 | 2563.04 | 2276.04 | 2017.43 | 1768.03 | 1556.24 |
| 180.0 | 3740.96 | 3461.63 | 3137.03 | 2831.62 | 2521.60 | 2235.37 | 1982.90 | 1725.83 | 1525.47 |
| 210.0 | 3636.59 | 3341.92 | 3043.41 | 2733.39 | 2434.88 | 2156.33 | 1913.84 | 1674.41 | 1480.50 |
| 240.0 | 3662.69 | 3382.59 | 3069.50 | 2773.30 | 2481.69 | 2200.83 | 1944.53 | 1718.92 | 1500.99 |
| 270.0 | 3638.13 | 3341.16 | 2269.90 | 2038.92 | 2438.72 | 2173.21 | 1932.25 | 1688.23 | 1481.80 |
| 300.0 | 3664.22 | 3388.73 | 3081.01 | 2775.60 | 2500.88 | 2220.79 | 1962.95 | 1738.87 | 1519.40 |
| 330.0 | 3614.34 | 3327.34 | 3036.51 | 2736.46 | 2447.16 | 2172.44 | 1929.95 | 1691.30 | 1484.57 |
| 360.0 | 3658.08 | 3372.62 | 3072.57 | 2757.95 | 2461.74 | 2180.12 | 1936.09 | 1700.51 | 1481.04 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 1301.47 | 1131.11 | 973.80 | 841.81 | 731.31 | 624.64 | 540.23 | 465.03 | 399.04 |
| 30.0 | 1355.95 | 1178.69 | 1021.38 | 884.02 | 767.38 | 660.71 | 568.63 | 492.66 | 425.89 |
| 60.0 | 1340.68 | 1163.42 | 1007.18 | 877.65 | 757.32 | 652.58 | 562.79 | 489.74 | 424.59 |
| 90.0 | 1345.98 | 1168.71 | 1012.17 | 874.04 | 759.70 | 654.57 | 567.86 | 490.35 | 424.36 |
| 120.0 | 1340.68 | 1163.27 | 1007.10 | 876.73 | 756.17 | 656.18 | 565.79 | 488.51 | 422.75 |
| 150.0 | 1355.95 | 1179.46 | 1021.38 | 888.62 | 767.38 | 660.71 | 572.46 | 491.89 | 425.13 |
| 180.0 | 1329.17 | 1160.43 | 1002.42 | 871.05 | 748.65 | 642.37 | 551.44 | 473.39 | 410.24 |
| 210.0 | 1292.57 | 1120.68 | 977.18 | 847.26 | 729.77 | 629.33 | 547.68 | 471.32 | 408.47 |
| 240.0 | 1320.65 | 1151.06 | 995.29 | 863.30 | 752.80 | 646.90 | 560.18 | 488.82 | 422.82 |
| 270.0 | 1302.47 | 1128.43 | 983.16 | 845.88 | 733.53 | 632.70 | 550.98 | 474.85 | 412.46 |
| 300.0 | 1329.10 | 1157.20 | 1007.56 | 872.51 | 760.47 | 653.80 | 565.56 | 489.59 | 425.89 |
| 330.0 | 1304.62 | 1131.50 | 985.85 | 854.09 | 734.84 | 632.70 | 549.59 | 472.78 | 408.93 |
| 360.0 | 1301.47 | 1131.11 | 973.80 | 841.81 | 731.31 | 624.64 | 540.23 | 465.03 | 399.04 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 348.08 | 307.64 | 271.80 | 244.56 | 222.54 | 201.44 | 183.94 | 164.91 | 147.87 |
| 30.0 | 388.29 | 329.13 | 293.67 | 265.21 | 243.10 | 223.15 | 204.97 | 188.31 | 171.36 |
| 60.0 | 374.17 | 331.28 | 297.05 | 269.27 | 247.71 | 227.37 | 206.65 | 188.85 | 168.36 |
| 90.0 | 379.77 | 327.98 | 292.06 | 263.13 | 239.19 | 216.48 | 196.76 | 174.65 | 152.48 |
| 120.0 | 369.72 | 329.20 | 294.83 | 268.66 | 245.48 | 225.30 | 204.51 | 186.70 | 166.67 |
| 150.0 | 387.52 | 327.36 | 291.22 | 263.52 | 239.57 | 219.70 | 202.05 | 184.71 | 167.59 |
| 180.0 | 355.83 | 314.01 | 277.33 | 247.94 | 224.30 | 203.66 | 184.78 | 166.44 | 149.41 |
| 210.0 | 359.75 | 317.46 | 284.70 | 258.38 | 237.43 | 218.32 | 201.51 | 184.17 | 166.75 |
| 240.0 | 388.29 | 331.35 | 298.59 | 271.73 | 249.09 | 229.75 | 209.19 | 189.85 | 169.21 |
| 270.0 | 363.97 | 321.07 | 287.54 | 260.91 | 236.97 | 214.33 | 193.84 | 173.27 | 150.18 |
| 300.0 | 389.06 | 332.12 | 298.89 | 272.03 | 250.39 | 229.22 | 210.26 | 191.08 | 171.97 |
| 330.0 | 359.52 | 316.62 | 283.32 | 257.15 | 235.51 | 216.40 | 198.75 | 182.33 | 165.29 |
| 360.0 | 348.08 | 307.64 | 271.80 | 244.56 | 222.54 | 201.44 | 183.94 | 164.91 | 147.87 |

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环境温度(°C): 25.0

测试日期: 2021/4/21
环境湿度(%): 60.0%

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 | 130.84 | 116.10 | 99.61 | 80.11 | 64.23 | 44.35 | 24.86 | 6.75 | 1.23 |
| 30.0 | 153.17 | 133.98 | 116.03 | 95.00 | 69.83 | 47.50 | 24.25 | 6.75 | 1.53 |
| 60.0 | 145.49 | 122.78 | 102.83 | 78.27 | 53.03 | 30.31 | 8.21 | 2.15 | 1.61 |
| 90.0 | 129.99 | 110.58 | 89.55 | 65.69 | 44.58 | 22.71 | 2.84 | 2.15 | 1.69 |
| 120.0 | 145.42 | 123.16 | 101.68 | 77.35 | 51.57 | 28.93 | 7.75 | 2.07 | 1.61 |
| 150.0 | 149.41 | 131.37 | 113.34 | 92.39 | 68.45 | 45.66 | 23.94 | 6.68 | 1.46 |
| 180.0 | 131.68 | 116.41 | 100.30 | 81.34 | 65.00 | 46.73 | 27.78 | 9.59 | 1.23 |
| 210.0 | 149.41 | 129.84 | 110.50 | 87.56 | 62.92 | 40.59 | 19.95 | 3.68 | 1.46 |
| 240.0 | 148.33 | 125.62 | 105.21 | 81.88 | 55.63 | 31.46 | 9.59 | 2.46 | 1.76 |
| 270.0 | 129.53 | 106.97 | 86.94 | 64.15 | 42.44 | 20.95 | 2.92 | 2.30 | 1.84 |
| 300.0 | 150.33 | 127.31 | 106.59 | 82.19 | 56.71 | 32.77 | 10.67 | 2.46 | 1.84 |
| 330.0 | 148.18 | 128.23 | 110.96 | 89.40 | 65.23 | 42.44 | 21.33 | 4.37 | 1.46 |
| 360.0 | 130.84 | 116.10 | 99.61 | 80.11 | 64.23 | 44.35 | 24.86 | 6.75 | 1.23 |
| C/γ(°) | 90.0 | | | | | | | | |
| 0.0 | 0.46 | | | | | | | | |
| 30.0 | 0.54 | | | | | | | | |
| 60.0 | 0.46 | | | | | | | | |
| 90.0 | 0.38 | | | | | | | | |
| 120.0 | 0.46 | | | | | | | | |
| 150.0 | 0.46 | | | | | | | | |
| 180.0 | 0.46 | | | | | | | | |
| 210.0 | 0.54 | | | | | | | | |
| 240.0 | 0.54 | | | | | | | | |
| 270.0 | 0.46 | | | | | | | | |
| 300.0 | 0.46 | | | | | | | | |
| 330.0 | 0.46 | | | | | | | | |
| 360.0 | 0.46 | | | | | | | | |