

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F1021A-3-UN (20-OL-3WN-AJ, P1)

报告编号:

电压(V): 220.5000

测试编号: 20210412003

电流(A): 0.0420

光源规格型号: OL

功率(W): 4.3000

每个光源光通量(lm)

功率因数: 0.4580

光源数量: 3

镇流器型号:

发光面长度(mm): 50

发光面宽度(mm): 50

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 325.09

灯具效能(lm/w): 75.60

中心光强(cd): 1485.410

最大光强(cd): 1498.302

最大光强角度: $C=30.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=20.7

[C90/270]Total=20.6

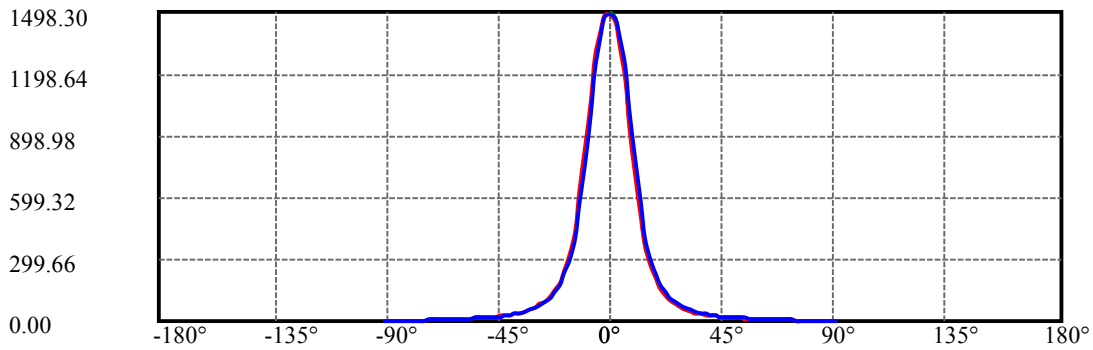
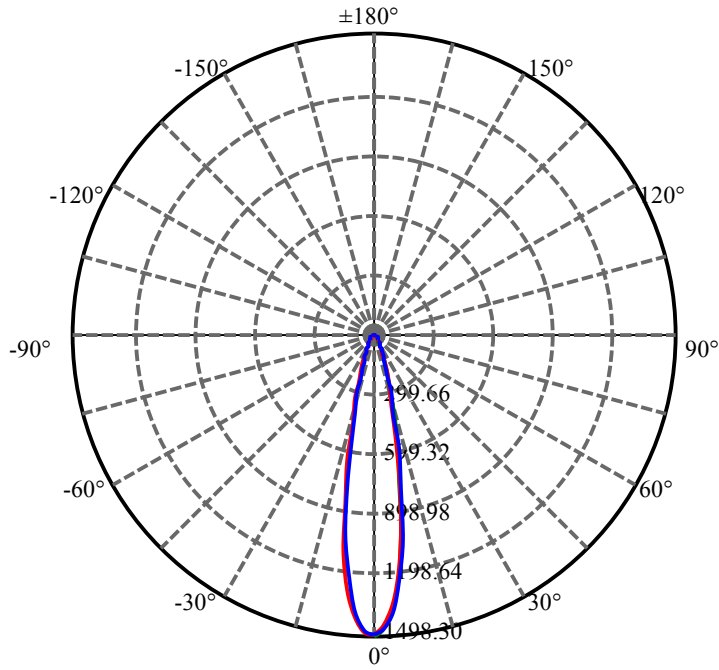
光束扩散角(10%Imax): [C0/180]Total=42.6

[C90/270]Total=43.0

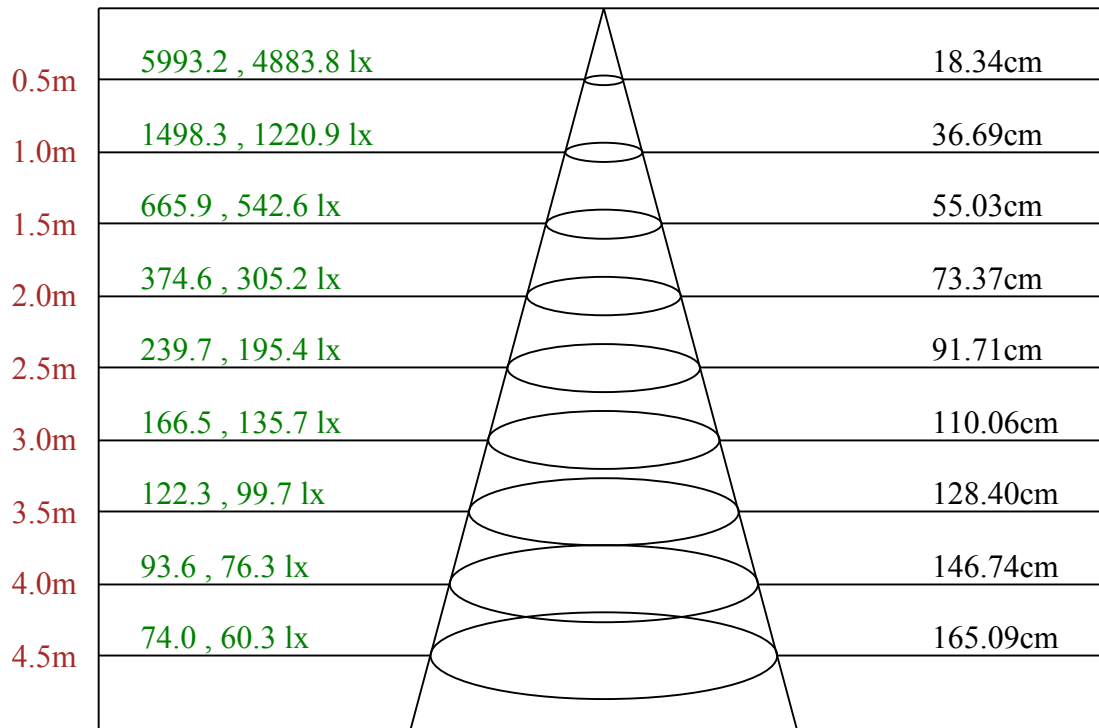
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/12
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

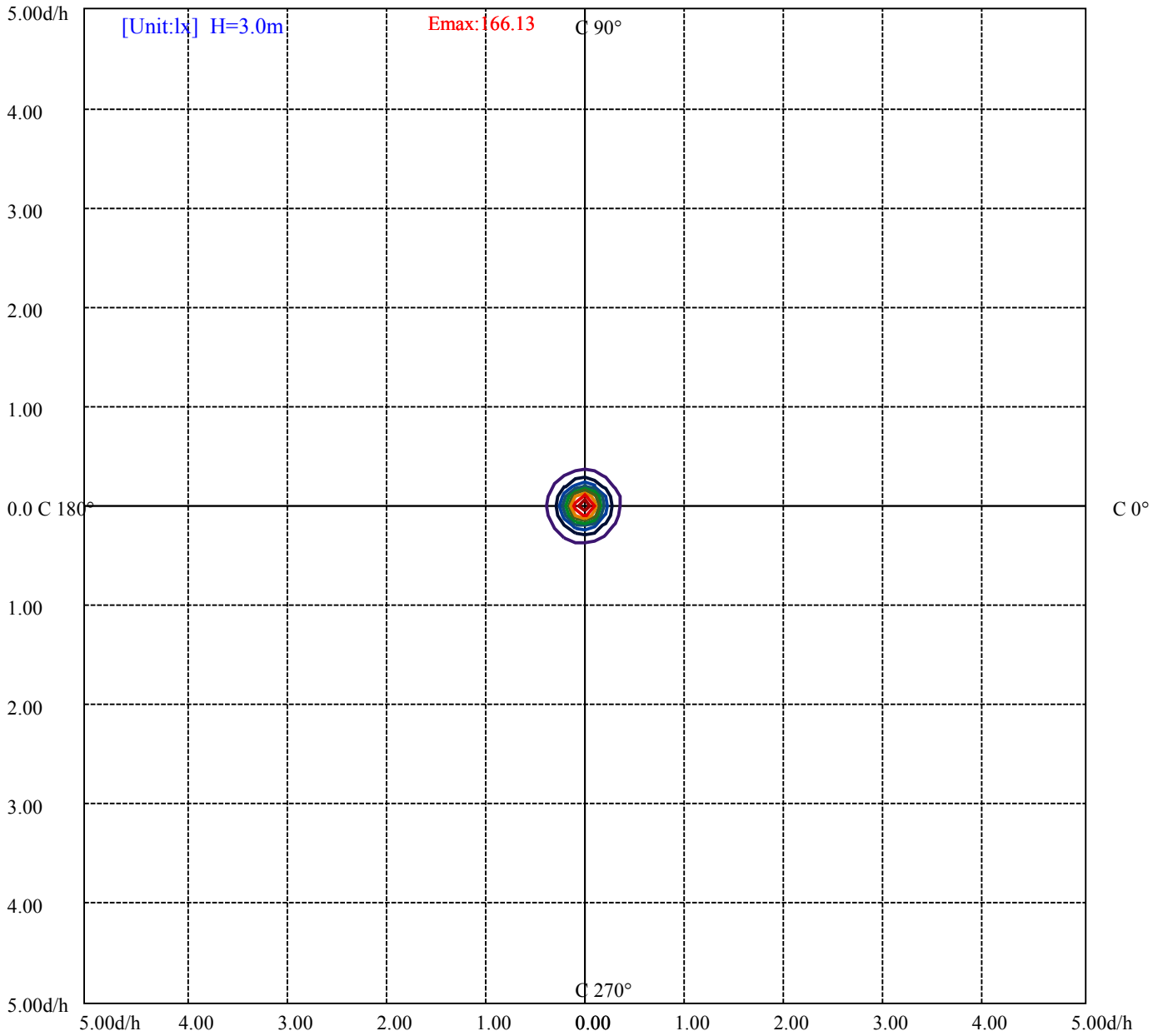


C30(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C30面光束角20.79

ROLED 投光灯
平面等照度曲线



- (10%Emax) 16.61322
- (20%Emax) 33.22644
- (30%Emax) 49.83967
- (40%Emax) 66.45289
- (50%Emax) 83.06611
- (60%Emax) 99.67934
- (70%Emax) 116.2922
- (80%Emax) 132.9056
- (90%Emax) 149.5189

测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/12
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

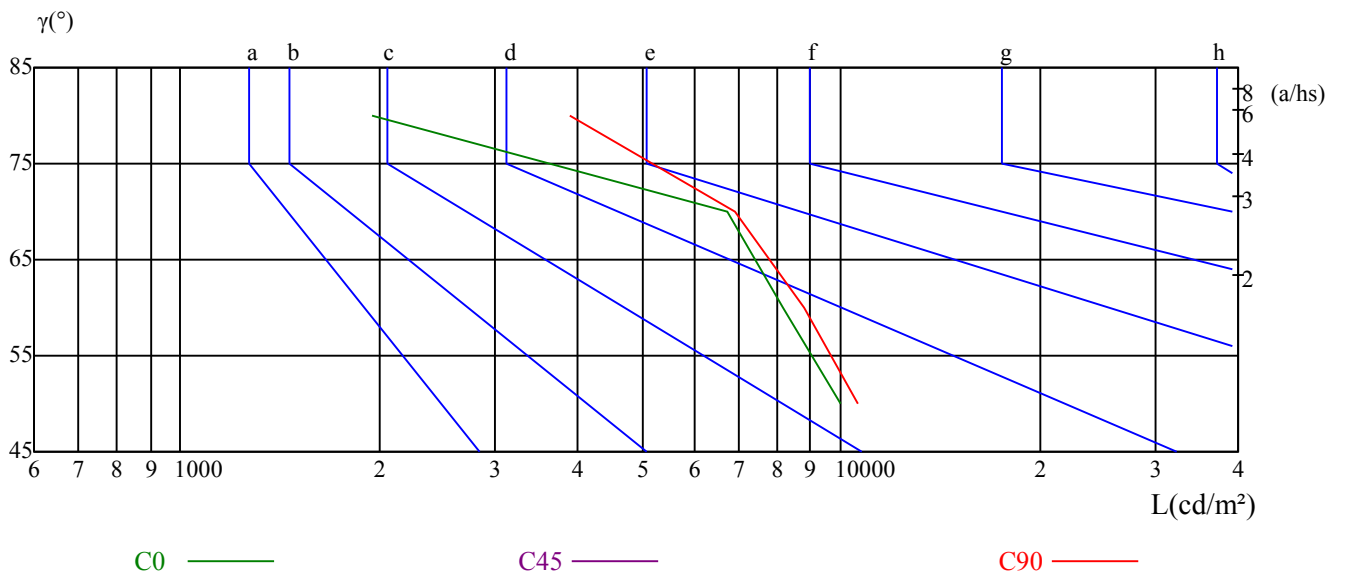
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|-------|----|------|----|------|----|------|----|
| C0 | 0 | 9980 | 0 | 8165 | 0 | 6731 | 0 | 1944 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 10649 | 0 | 8779 | 0 | 6910 | 0 | 3889 | 0 |

| 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 |

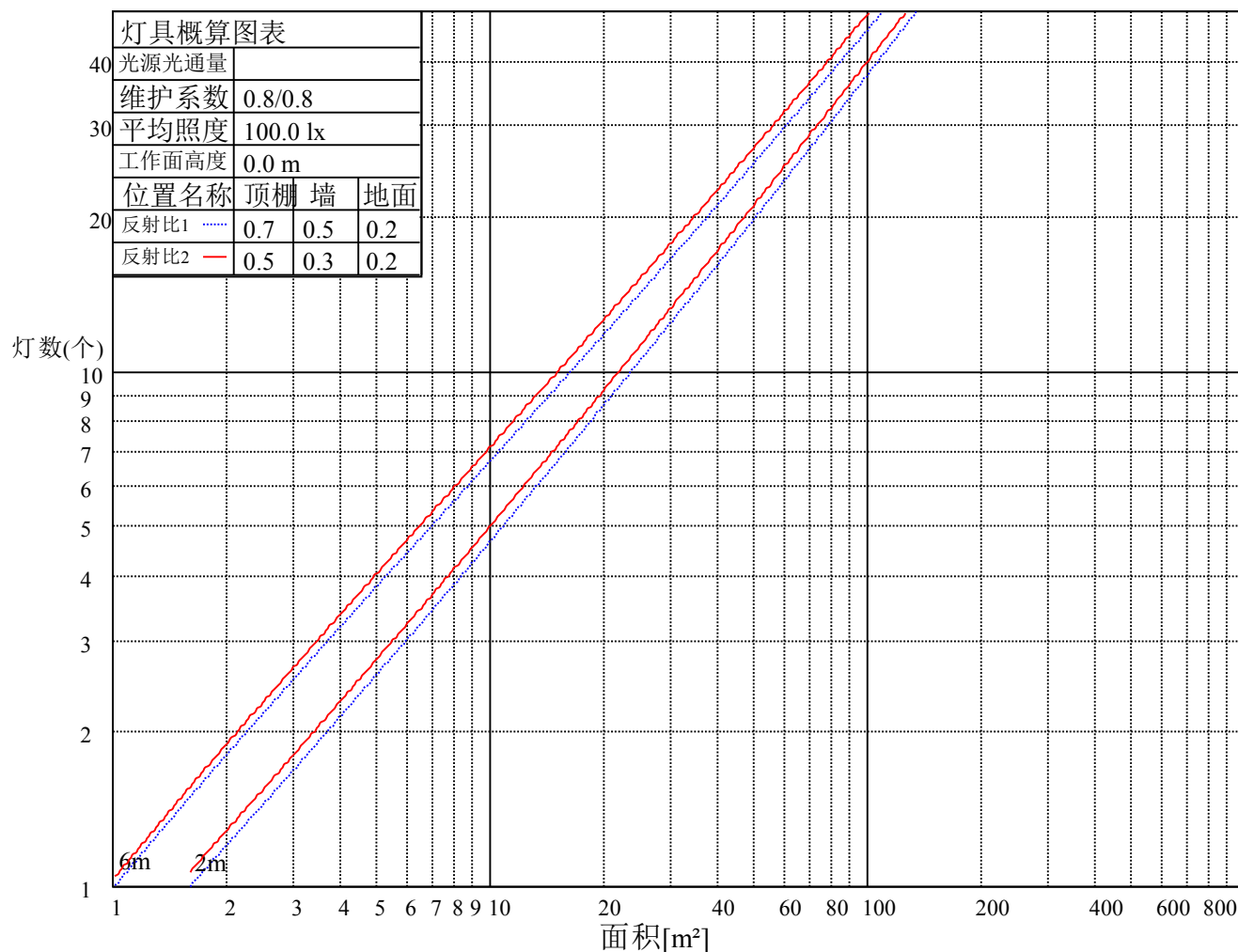
亮度限制曲线



| 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 | 19.16 | 20.21 | 19.52 | 20.52 | 20.84 | 19.16 | 20.22 | 19.53 | 20.53 | 20.85 |
| | 3H | 20.55 | 21.49 | 20.94 | 21.82 | 22.19 | 20.55 | 21.48 | 20.93 | 21.81 | 22.18 |
| | 4H | 20.94 | 21.81 | 21.35 | 22.16 | 22.55 | 20.93 | 21.80 | 21.34 | 22.15 | 22.54 |
| | 6H | 21.07 | 21.87 | 21.49 | 22.24 | 22.64 | 21.05 | 21.84 | 21.47 | 22.22 | 22.61 |
| | 8H | 21.06 | 21.81 | 21.50 | 22.20 | 22.61 | 21.04 | 21.78 | 21.47 | 22.17 | 22.58 |
| | 12H | 21.04 | 21.75 | 21.47 | 22.13 | 22.56 | 21.01 | 21.72 | 21.44 | 22.10 | 22.54 |
| 4H | 2H | 19.56 | 20.43 | 19.96 | 20.78 | 21.17 | 19.57 | 20.43 | 19.97 | 20.79 | 21.17 |
| | 3H | 21.11 | 21.82 | 21.53 | 22.23 | 22.64 | 21.12 | 21.82 | 21.53 | 22.23 | 22.64 |
| | 4H | 21.57 | 22.20 | 22.01 | 22.62 | 23.07 | 21.57 | 22.20 | 22.01 | 22.63 | 23.07 |
| | 6H | 21.72 | 22.27 | 22.19 | 22.72 | 23.19 | 21.72 | 22.26 | 22.19 | 22.71 | 23.18 |
| | 8H | 21.72 | 22.22 | 22.19 | 22.67 | 23.15 | 21.70 | 22.21 | 22.18 | 22.66 | 23.13 |
| | 12H | 21.69 | 22.12 | 22.18 | 22.61 | 23.09 | 21.68 | 22.11 | 22.17 | 22.60 | 23.08 |
| 8H | 4H | 21.64 | 22.15 | 22.12 | 22.60 | 23.07 | 21.65 | 22.15 | 22.12 | 22.60 | 23.07 |
| | 6H | 21.84 | 22.23 | 22.34 | 22.74 | 23.22 | 21.83 | 22.23 | 22.34 | 22.73 | 23.22 |
| | 8H | 21.85 | 22.20 | 22.38 | 22.72 | 23.22 | 21.84 | 22.19 | 22.37 | 22.71 | 23.21 |
| | 12H | 22.48 | 22.78 | 23.00 | 23.28 | 23.86 | 22.48 | 22.79 | 23.00 | 23.29 | 23.87 |
| 12H | 4H | 21.60 | 22.04 | 22.09 | 22.53 | 23.00 | 21.60 | 22.04 | 22.09 | 22.53 | 23.01 |
| | 6H | 22.12 | 22.15 | 22.33 | 22.62 | 23.17 | 22.11 | 22.15 | 22.33 | 22.62 | 23.17 |
| | 8H | 21.83 | 22.14 | 22.35 | 22.64 | 23.21 | 21.82 | 22.13 | 22.34 | 22.63 | 23.21 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.5/-0.6 | | | | | 0.4/-0.6 | | | | | |
| S = 1.5H | 1.1/-1.1 | | | | | 1.2/-1.1 | | | | | |
| S = 2.0H | 2.9/-1.4 | | | | | 2.7/-1.4 | | | | | |
| 标准表格 | BK2 | | | | | BK2 | | | | | |
| 更正系数 | -0.4 | | | | | -0.6 | | | | | |

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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 | 1.11 | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.05 | 1.04 | 1.02 | 1.01 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.94 |
| 2 | 1.05 | 1.01 | 0.98 | 1.03 | 0.99 | 0.97 | 1.00 | 0.97 | 0.95 | 0.97 | 0.94 | 0.93 | 0.94 | 0.92 | 0.91 | 0.89 |
| 3 | 0.99 | 0.94 | 0.91 | 0.97 | 0.93 | 0.90 | 0.95 | 0.91 | 0.89 | 0.92 | 0.90 | 0.87 | 0.90 | 0.88 | 0.86 | 0.84 |
| 4 | 0.94 | 0.89 | 0.85 | 0.93 | 0.88 | 0.85 | 0.90 | 0.87 | 0.84 | 0.89 | 0.85 | 0.83 | 0.87 | 0.84 | 0.82 | 0.80 |
| 5 | 0.89 | 0.84 | 0.80 | 0.88 | 0.84 | 0.80 | 0.87 | 0.83 | 0.79 | 0.85 | 0.82 | 0.79 | 0.84 | 0.81 | 0.78 | 0.77 |
| 6 | 0.85 | 0.80 | 0.77 | 0.85 | 0.80 | 0.76 | 0.83 | 0.79 | 0.76 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.75 | 0.74 |
| 7 | 0.82 | 0.77 | 0.73 | 0.81 | 0.77 | 0.73 | 0.80 | 0.76 | 0.73 | 0.79 | 0.75 | 0.72 | 0.78 | 0.75 | 0.72 | 0.71 |
| 8 | 0.79 | 0.74 | 0.71 | 0.78 | 0.74 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.68 |
| 9 | 0.76 | 0.71 | 0.68 | 0.76 | 0.71 | 0.68 | 0.75 | 0.71 | 0.68 | 0.74 | 0.70 | 0.68 | 0.73 | 0.70 | 0.67 | 0.66 |
| 10 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.73 | 0.68 | 0.66 | 0.72 | 0.68 | 0.65 | 0.71 | 0.68 | 0.65 | 0.64 |

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光强数据表(cd)

| C/γ(°) | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 |
|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0.0 | 1485.41 | 1441.52 | 1331.55 | 1163.27 | 941.65 | 707.29 | 506.16 | 367.73 | 267.05 |
| 30.0 | 1498.30 | 1461.24 | 1351.50 | 1188.44 | 962.83 | 735.07 | 530.18 | 376.78 | 277.71 |
| 60.0 | 1492.09 | 1448.12 | 1347.21 | 1178.61 | 952.16 | 718.42 | 529.57 | 375.09 | 276.64 |
| 90.0 | 1490.01 | 1461.31 | 1378.13 | 1227.57 | 1026.90 | 788.63 | 574.99 | 409.09 | 299.89 |
| 120.0 | 1487.25 | 1463.62 | 1374.75 | 1236.09 | 1024.29 | 788.40 | 586.51 | 415.53 | 304.19 |
| 150.0 | 1484.57 | 1474.90 | 1412.59 | 1282.90 | 1098.12 | 847.95 | 634.31 | 451.45 | 328.44 |
| 180.0 | 1485.41 | 1476.97 | 1409.29 | 1277.07 | 1074.86 | 851.48 | 632.39 | 450.76 | 329.28 |
| 210.0 | 1498.30 | 1485.72 | 1412.66 | 1270.77 | 1066.19 | 837.44 | 616.28 | 440.63 | 317.23 |
| 240.0 | 1492.09 | 1484.03 | 1416.19 | 1273.84 | 1087.60 | 844.04 | 630.86 | 454.82 | 327.06 |
| 270.0 | 1490.01 | 1467.61 | 1381.66 | 1213.68 | 1005.34 | 763.69 | 565.25 | 404.94 | 295.36 |
| 300.0 | 1487.25 | 1460.32 | 1373.37 | 1208.39 | 994.44 | 771.44 | 558.34 | 400.65 | 290.53 |
| 330.0 | 1484.57 | 1438.22 | 1328.87 | 1147.23 | 930.37 | 680.28 | 496.57 | 355.60 | 260.83 |
| 360.0 | 1485.41 | 1441.52 | 1331.55 | 1163.27 | 941.65 | 707.29 | 506.16 | 367.73 | 267.05 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 203.35 | 158.16 | 124.39 | 99.68 | 82.11 | 67.22 | 55.56 | 47.27 | 40.21 |
| 30.0 | 209.26 | 161.53 | 126.69 | 102.37 | 83.11 | 68.76 | 57.02 | 47.81 | 40.67 |
| 60.0 | 209.11 | 161.07 | 126.39 | 102.29 | 82.95 | 68.07 | 57.09 | 47.96 | 40.82 |
| 90.0 | 225.76 | 176.80 | 138.90 | 110.58 | 89.48 | 73.44 | 61.31 | 51.26 | 43.74 |
| 120.0 | 225.53 | 175.96 | 138.28 | 111.27 | 89.86 | 73.51 | 61.31 | 51.11 | 43.28 |
| 150.0 | 245.25 | 189.08 | 149.87 | 118.87 | 95.69 | 78.12 | 65.00 | 53.95 | 45.81 |
| 180.0 | 246.25 | 189.62 | 148.95 | 119.86 | 96.61 | 80.04 | 66.07 | 55.02 | 46.43 |
| 210.0 | 242.95 | 188.31 | 147.49 | 119.10 | 96.31 | 79.50 | 65.30 | 55.02 | 46.27 |
| 240.0 | 247.25 | 191.61 | 151.79 | 118.64 | 97.07 | 78.96 | 65.53 | 54.64 | 45.97 |
| 270.0 | 228.45 | 177.72 | 139.59 | 113.03 | 91.78 | 74.90 | 62.54 | 52.34 | 44.12 |
| 300.0 | 221.54 | 172.35 | 137.28 | 109.27 | 89.40 | 73.21 | 61.16 | 51.34 | 43.43 |
| 330.0 | 202.28 | 158.16 | 124.47 | 101.45 | 82.80 | 67.84 | 57.17 | 48.19 | 41.05 |
| 360.0 | 203.35 | 158.16 | 124.39 | 99.68 | 82.11 | 67.22 | 55.56 | 47.27 | 40.21 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 34.92 | 30.31 | 26.78 | 23.71 | 21.33 | 19.34 | 17.50 | 16.04 | 14.50 |
| 30.0 | 34.92 | 30.70 | 26.93 | 23.94 | 21.41 | 19.18 | 17.42 | 15.88 | 14.43 |
| 60.0 | 35.22 | 30.77 | 27.01 | 23.87 | 21.56 | 19.34 | 17.57 | 16.04 | 14.66 |
| 90.0 | 37.60 | 32.69 | 28.55 | 25.40 | 22.71 | 20.49 | 18.80 | 17.11 | 15.81 |
| 120.0 | 36.99 | 32.31 | 28.16 | 24.94 | 22.02 | 19.88 | 17.96 | 16.27 | 14.81 |
| 150.0 | 39.06 | 33.61 | 29.47 | 25.78 | 22.94 | 20.41 | 18.49 | 16.65 | 15.12 |
| 180.0 | 40.06 | 34.69 | 30.23 | 26.78 | 23.79 | 21.33 | 19.26 | 17.65 | 16.11 |
| 210.0 | 39.90 | 34.61 | 30.00 | 26.55 | 23.56 | 21.18 | 19.11 | 17.42 | 15.81 |
| 240.0 | 39.52 | 34.22 | 29.70 | 26.09 | 23.33 | 20.72 | 18.72 | 16.96 | 15.42 |
| 270.0 | 38.29 | 33.15 | 28.93 | 25.55 | 22.87 | 20.57 | 18.57 | 16.96 | 15.50 |
| 300.0 | 37.68 | 32.84 | 28.55 | 25.25 | 22.64 | 20.26 | 18.26 | 16.81 | 15.27 |
| 330.0 | 35.68 | 31.16 | 27.47 | 24.25 | 21.87 | 19.64 | 17.88 | 16.42 | 14.89 |
| 360.0 | 34.92 | 30.31 | 26.78 | 23.71 | 21.33 | 19.34 | 17.50 | 16.04 | 14.50 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 13.43 | 12.35 | 11.20 | 10.21 | 9.21 | 8.29 | 7.52 | 6.60 | 5.76 |
| 30.0 | 13.12 | 12.05 | 10.97 | 9.98 | 9.06 | 8.21 | 7.44 | 6.52 | 5.68 |
| 60.0 | 13.35 | 12.28 | 11.13 | 10.13 | 9.06 | 8.13 | 7.06 | 6.14 | 5.22 |
| 90.0 | 14.43 | 13.35 | 12.12 | 10.97 | 9.98 | 8.82 | 7.90 | 6.91 | 5.91 |
| 120.0 | 13.43 | 12.35 | 11.20 | 10.28 | 9.21 | 8.52 | 7.75 | 6.91 | 6.06 |
| 150.0 | 13.74 | 12.58 | 11.59 | 10.44 | 9.59 | 8.75 | 8.06 | 7.21 | 6.37 |
| 180.0 | 14.73 | 13.58 | 12.43 | 11.36 | 10.21 | 9.06 | 7.98 | 7.06 | 5.99 |
| 210.0 | 14.43 | 13.35 | 12.20 | 11.13 | 9.98 | 8.82 | 7.83 | 6.75 | 5.68 |
| 240.0 | 14.04 | 12.74 | 11.59 | 10.51 | 9.52 | 8.52 | 7.83 | 6.91 | 6.06 |
| 270.0 | 14.12 | 12.82 | 11.66 | 10.67 | 9.67 | 8.67 | 7.75 | 6.83 | 6.06 |
| 300.0 | 13.97 | 12.74 | 11.66 | 10.51 | 9.44 | 8.29 | 7.21 | 6.37 | 5.22 |
| 330.0 | 13.66 | 12.51 | 11.28 | 10.28 | 9.21 | 8.21 | 7.14 | 6.06 | 5.06 |
| 360.0 | 13.43 | 12.35 | 11.20 | 10.21 | 9.21 | 8.29 | 7.52 | 6.60 | 5.76 |

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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 | 4.83 | 3.91 | 2.84 | 1.84 | 0.84 | 0.31 | 0.23 | 0.08 | 0.00 |
| 30.0 | 4.76 | 3.91 | 2.92 | 2.00 | 0.92 | 0.38 | 0.31 | 0.15 | 0.00 |
| 60.0 | 4.14 | 3.22 | 2.53 | 2.00 | 1.23 | 0.54 | 0.23 | 0.15 | 0.00 |
| 90.0 | 4.76 | 3.91 | 2.99 | 2.23 | 1.69 | 0.77 | 0.31 | 0.15 | 0.08 |
| 120.0 | 5.14 | 4.22 | 3.15 | 2.30 | 1.15 | 0.54 | 0.23 | 0.15 | 0.00 |
| 150.0 | 5.29 | 4.45 | 3.45 | 2.46 | 1.53 | 0.61 | 0.23 | 0.15 | 0.08 |
| 180.0 | 4.91 | 3.99 | 3.07 | 2.30 | 1.69 | 0.84 | 0.38 | 0.23 | 0.08 |
| 210.0 | 4.68 | 3.76 | 2.92 | 2.15 | 1.61 | 0.77 | 0.31 | 0.23 | 0.08 |
| 240.0 | 5.14 | 4.14 | 3.22 | 2.38 | 1.23 | 0.46 | 0.23 | 0.15 | 0.00 |
| 270.0 | 5.06 | 4.07 | 2.99 | 2.15 | 1.07 | 0.38 | 0.23 | 0.08 | 0.00 |
| 300.0 | 4.22 | 3.38 | 2.61 | 1.84 | 1.30 | 0.54 | 0.31 | 0.23 | 0.00 |
| 330.0 | 4.07 | 3.15 | 2.38 | 1.69 | 1.00 | 0.38 | 0.23 | 0.23 | 0.00 |
| 360.0 | 4.83 | 3.91 | 2.84 | 1.84 | 0.84 | 0.31 | 0.23 | 0.08 | 0.00 |
| C/γ(°) | 90.0 | | | | | | | | |
| 0.0 | 0.00 | | | | | | | | |
| 30.0 | 0.00 | | | | | | | | |
| 60.0 | 0.00 | | | | | | | | |
| 90.0 | 0.00 | | | | | | | | |
| 120.0 | 0.00 | | | | | | | | |
| 150.0 | 0.00 | | | | | | | | |
| 180.0 | 0.00 | | | | | | | | |
| 210.0 | 0.00 | | | | | | | | |
| 240.0 | 0.00 | | | | | | | | |
| 270.0 | 0.00 | | | | | | | | |
| 300.0 | 0.00 | | | | | | | | |
| 330.0 | 0.00 | | | | | | | | |
| 360.0 | 0.00 | | | | | | | | |