

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2021A-16-UN (15-OL-16WN-C, P1)

报告编号:

电压(V): 220.6000

测试编号: 20210317005

电流(A): 0.1100

光源规格型号: OL

功率(W): 19.5000

每个光源光通量(lm)

功率因数: 0.8050

光源数量: 16

镇流器型号:

发光面长度(mm): 155

发光面宽度(mm): 155

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 1728.94

灯具效能(lm/w): 88.66

中心光强(cd): 13086.830

最大光强(cd): 13115.990

最大光强角度: C=120.0 $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=15.1

[C90/270]Total=14.9

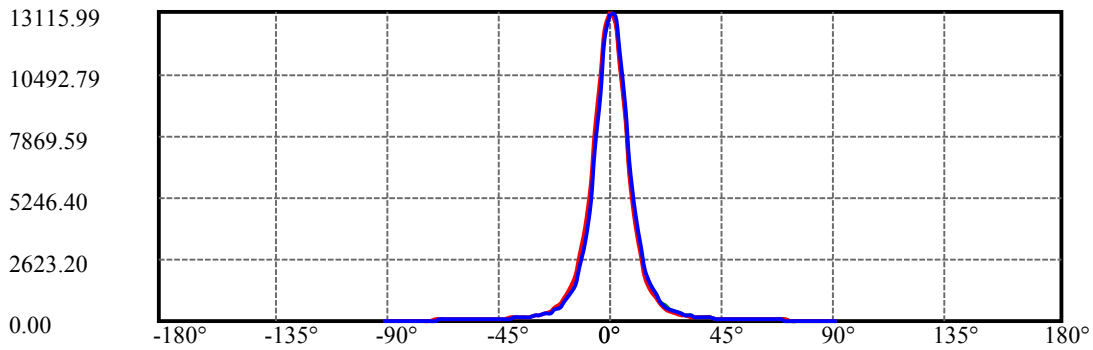
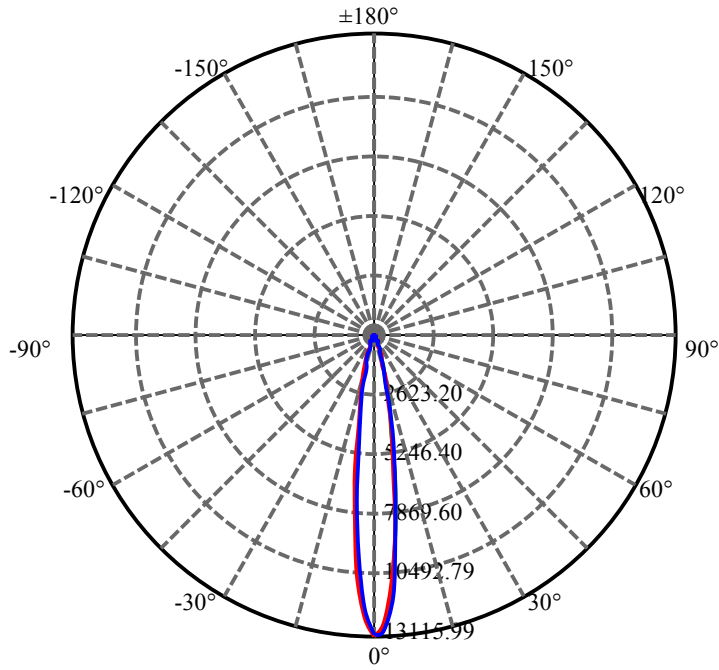
光束扩散角(10%Imax): [C0/180]Total=32.5

[C90/270]Total=32.4

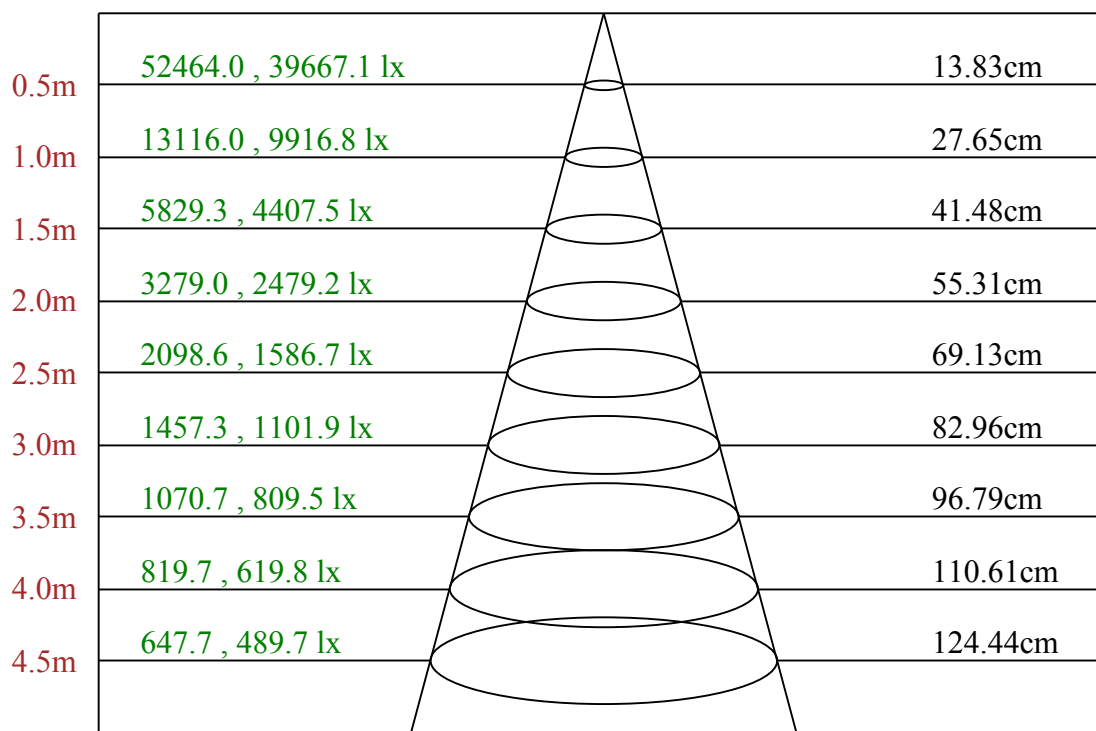
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/17
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

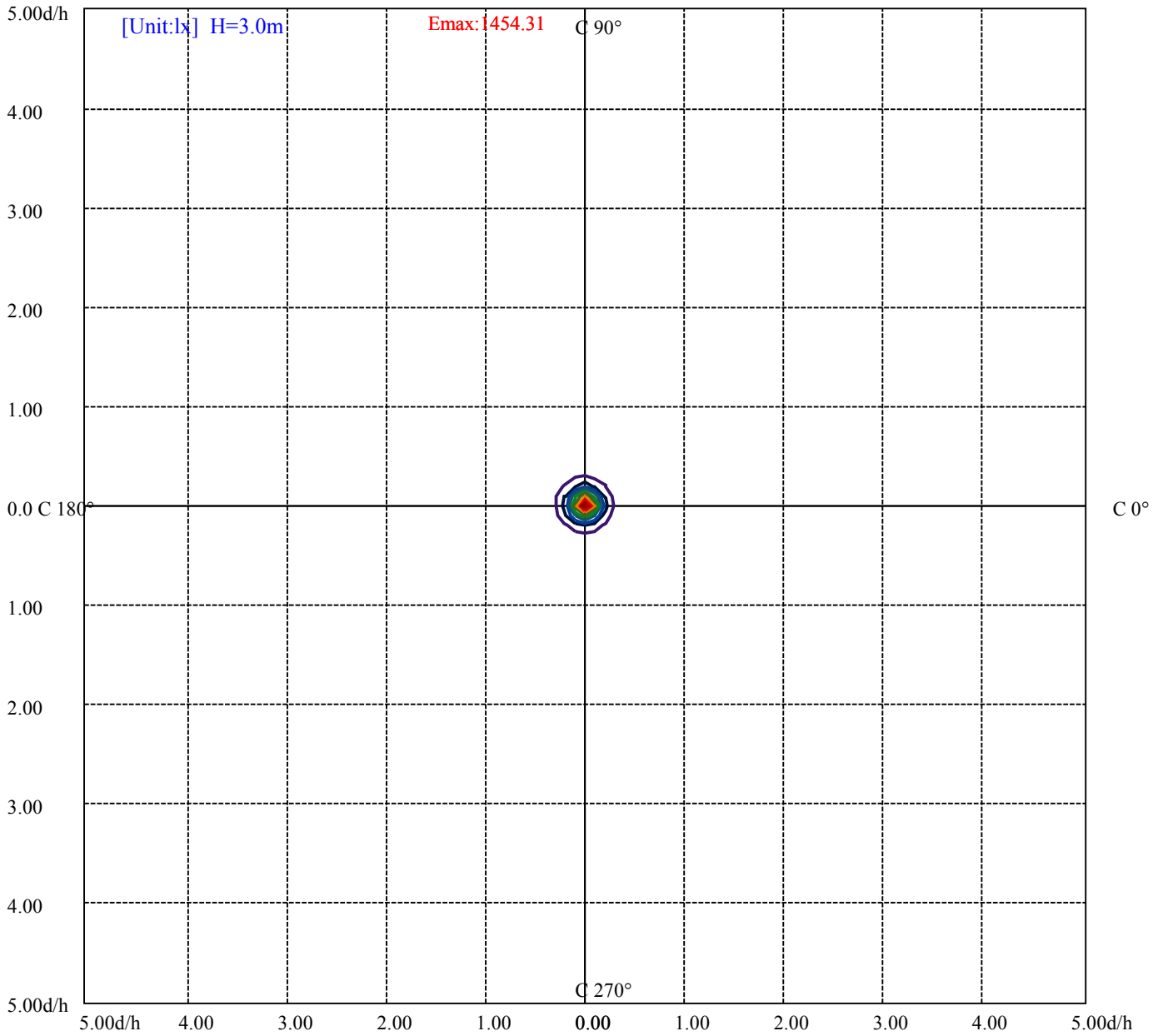


C120(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C120面光束角15.74

ROLED 投光灯
平面等照度曲线



- (10%Emax) 145.43
- (20%Emax) 290.86
- (30%Emax) 436.2911
- (40%Emax) 581.7211
- (50%Emax) 727.1511
- (60%Emax) 872.5811
- (70%Emax) 1018.012
- (80%Emax) 1163.444
- (90%Emax) 1308.867

测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/17
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

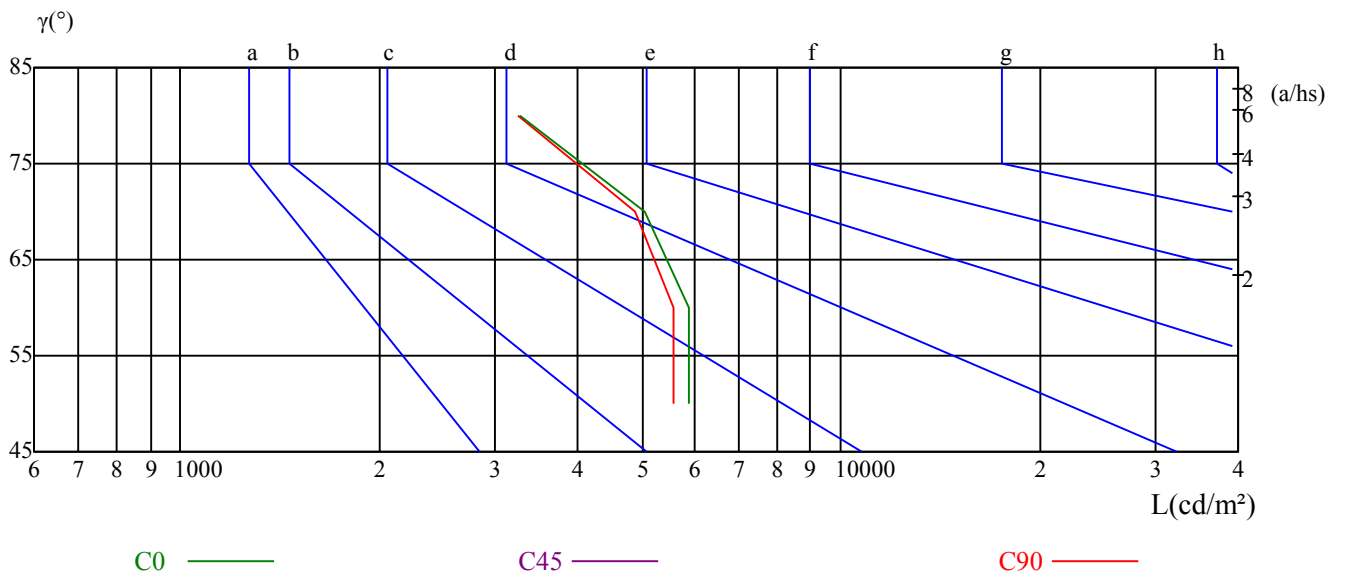
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|------|----|------|----|------|----|------|----|
| C0 | 0 | 5893 | 0 | 5871 | 0 | 5052 | 0 | 3274 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 5590 | 0 | 5564 | 0 | 4875 | 0 | 3237 | 0 |

| 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 |

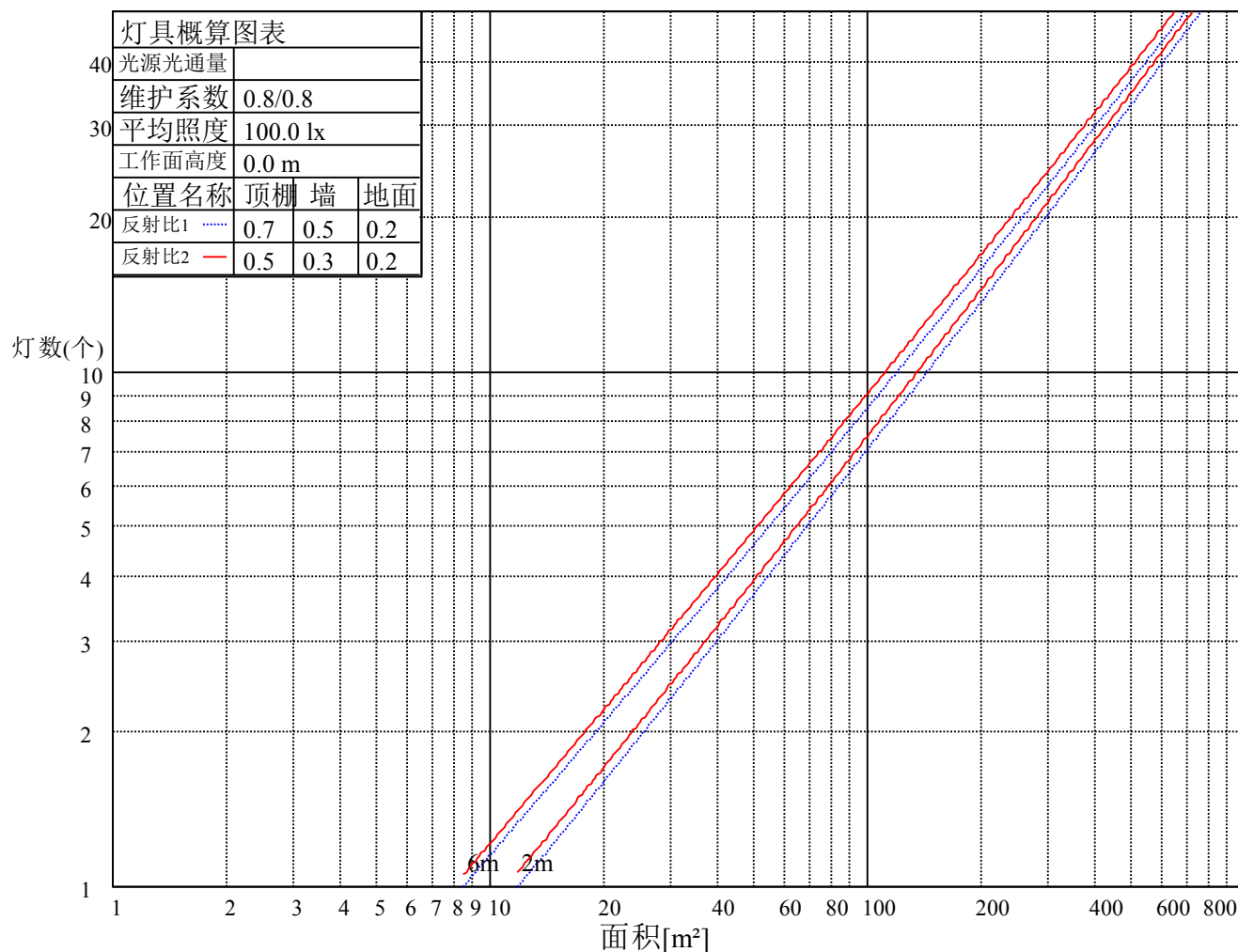
亮度限制曲线



| 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 | 12.20 | 13.28 | 12.57 | 13.59 | 13.90 | 12.52 | 13.59 | 12.88 | 13.90 | 14.22 |
| | 3H | 13.92 | 14.87 | 14.30 | 15.20 | 15.57 | 14.26 | 15.21 | 14.64 | 15.55 | 15.91 |
| | 4H | 14.47 | 15.36 | 14.88 | 15.71 | 16.10 | 14.82 | 15.71 | 15.23 | 16.06 | 16.45 |
| | 6H | 14.74 | 15.56 | 15.16 | 15.93 | 16.33 | 15.10 | 15.91 | 15.52 | 16.29 | 16.68 |
| | 8H | 14.77 | 15.54 | 15.21 | 15.93 | 16.34 | 15.13 | 15.89 | 15.56 | 16.29 | 16.70 |
| | 12H | 14.77 | 15.50 | 15.20 | 15.88 | 16.31 | 15.12 | 15.85 | 15.56 | 16.24 | 16.67 |
| 4H | 2H | 12.90 | 13.78 | 13.30 | 14.14 | 14.52 | 13.14 | 14.02 | 13.54 | 14.38 | 14.76 |
| | 3H | 14.80 | 15.53 | 15.22 | 15.94 | 16.34 | 15.06 | 15.78 | 15.47 | 16.19 | 16.60 |
| | 4H | 15.45 | 16.10 | 15.89 | 16.52 | 16.97 | 15.72 | 16.37 | 16.15 | 16.79 | 17.24 |
| | 6H | 15.73 | 16.29 | 16.20 | 16.74 | 17.21 | 16.01 | 16.57 | 16.48 | 17.02 | 17.49 |
| | 8H | 15.77 | 16.29 | 16.24 | 16.74 | 17.21 | 16.05 | 16.56 | 16.52 | 17.01 | 17.49 |
| | 12H | 15.76 | 16.21 | 16.25 | 16.70 | 17.17 | 16.04 | 16.49 | 16.53 | 16.97 | 17.45 |
| 8H | 4H | 15.66 | 16.18 | 16.14 | 16.63 | 17.10 | 15.90 | 16.42 | 16.37 | 16.87 | 17.34 |
| | 6H | 16.02 | 16.43 | 16.52 | 16.93 | 17.41 | 16.26 | 16.67 | 16.77 | 17.17 | 17.66 |
| | 8H | 16.08 | 16.45 | 16.61 | 16.97 | 17.46 | 16.33 | 16.69 | 16.86 | 17.21 | 17.71 |
| | 12H | 16.70 | 17.02 | 17.22 | 17.51 | 18.09 | 16.95 | 17.26 | 17.47 | 17.76 | 18.34 |
| 12H | 4H | 15.64 | 16.09 | 16.13 | 16.57 | 17.05 | 15.87 | 16.32 | 16.36 | 16.81 | 17.29 |
| | 6H | 16.35 | 16.37 | 16.54 | 16.84 | 17.39 | 16.59 | 16.61 | 16.78 | 17.08 | 17.63 |
| | 8H | 16.10 | 16.41 | 16.62 | 16.91 | 17.49 | 16.34 | 16.65 | 16.86 | 17.15 | 17.73 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.2/-0.5 | | | | | 0.3/-0.6 | | | | | |
| S = 1.5H | 0.8/-0.6 | | | | | 0.8/-0.6 | | | | | |
| S = 2.0H | 1.0/-0.9 | | | | | 1.0/-0.8 | | | | | |
| 标准表格 | BK3 | | | | | BK3 | | | | | |
| 更正系数 | -0.5 | | | | | -0.4 | | | | | |

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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 | 1.00 | 0.97 | 1.00 | 0.97 | 0.95 | 0.97 | 0.95 | 0.93 | 0.94 | 0.92 | 0.91 | 0.89 |
| 3 | 0.99 | 0.95 | 0.91 | 0.98 | 0.94 | 0.91 | 0.95 | 0.92 | 0.89 | 0.93 | 0.90 | 0.88 | 0.91 | 0.88 | 0.86 | 0.85 |
| 4 | 0.94 | 0.90 | 0.86 | 0.93 | 0.89 | 0.86 | 0.91 | 0.88 | 0.85 | 0.89 | 0.86 | 0.84 | 0.88 | 0.85 | 0.83 | 0.81 |
| 5 | 0.90 | 0.86 | 0.82 | 0.89 | 0.85 | 0.82 | 0.88 | 0.84 | 0.81 | 0.86 | 0.83 | 0.80 | 0.85 | 0.82 | 0.80 | 0.78 |
| 6 | 0.87 | 0.82 | 0.79 | 0.86 | 0.82 | 0.78 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.77 | 0.82 | 0.79 | 0.77 | 0.76 |
| 7 | 0.84 | 0.79 | 0.76 | 0.83 | 0.79 | 0.76 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.75 | 0.80 | 0.77 | 0.74 | 0.73 |
| 8 | 0.81 | 0.77 | 0.73 | 0.81 | 0.76 | 0.73 | 0.80 | 0.76 | 0.73 | 0.79 | 0.75 | 0.73 | 0.78 | 0.75 | 0.72 | 0.71 |
| 9 | 0.79 | 0.74 | 0.71 | 0.78 | 0.74 | 0.71 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.69 |
| 10 | 0.77 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.69 | 0.74 | 0.71 | 0.69 | 0.68 |

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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 | 13086.83 | 12558.11 | 10833.05 | 8520.94 | 6152.82 | 4160.71 | 2741.83 | 1913.84 | 1339.07 |
| 30.0 | 13079.92 | 12745.35 | 11118.51 | 8901.56 | 6455.17 | 4384.02 | 2932.91 | 2031.24 | 1418.11 |
| 60.0 | 13097.57 | 12685.49 | 10962.73 | 8582.33 | 6246.44 | 4265.08 | 2885.33 | 2015.90 | 1433.15 |
| 90.0 | 13027.74 | 12856.62 | 11379.42 | 9067.31 | 6742.93 | 4654.90 | 3178.47 | 2237.67 | 1583.10 |
| 120.0 | 13115.99 | 12639.45 | 11021.82 | 8698.97 | 6397.61 | 4433.13 | 3054.92 | 2131.00 | 1511.81 |
| 150.0 | 13058.44 | 12720.79 | 11113.14 | 8941.47 | 6551.86 | 4530.59 | 3109.41 | 2203.14 | 1562.38 |
| 180.0 | 13086.83 | 12328.66 | 10455.50 | 8095.82 | 5868.89 | 4014.91 | 2736.46 | 1924.58 | 1370.84 |
| 210.0 | 13079.92 | 12099.98 | 10034.21 | 7720.57 | 5472.93 | 3679.57 | 2490.14 | 1662.14 | 1246.22 |
| 240.0 | 13097.57 | 12180.56 | 10133.97 | 7603.93 | 5459.88 | 3665.76 | 2434.88 | 1695.13 | 1217.83 |
| 270.0 | 13027.74 | 11856.73 | 9616.76 | 7245.56 | 5036.29 | 3325.81 | 2268.36 | 1525.93 | 1112.16 |
| 300.0 | 13115.99 | 12198.98 | 10173.87 | 7652.27 | 5495.18 | 3675.73 | 2471.72 | 1707.41 | 1204.01 |
| 330.0 | 13058.44 | 12149.86 | 10117.85 | 7785.03 | 5383.91 | 3651.94 | 2442.56 | 1511.04 | 1212.61 |
| 360.0 | 13086.83 | 12558.11 | 10833.05 | 8520.94 | 6152.82 | 4160.71 | 2741.83 | 1913.84 | 1339.07 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 946.94 | 699.85 | 524.89 | 411.31 | 326.21 | 270.50 | 227.07 | 197.29 | 172.74 |
| 30.0 | 1012.94 | 739.75 | 555.58 | 432.80 | 343.32 | 281.70 | 235.89 | 203.43 | 176.65 |
| 60.0 | 1027.75 | 738.52 | 563.64 | 437.40 | 347.77 | 282.39 | 235.81 | 201.05 | 176.27 |
| 90.0 | 1138.79 | 814.95 | 610.83 | 468.87 | 391.36 | 295.36 | 244.79 | 208.50 | 179.64 |
| 120.0 | 1124.97 | 808.12 | 613.52 | 471.55 | 370.34 | 296.36 | 245.94 | 208.42 | 181.71 |
| 150.0 | 1140.32 | 818.02 | 609.30 | 468.10 | 391.36 | 297.20 | 246.86 | 211.41 | 183.17 |
| 180.0 | 981.40 | 708.06 | 542.38 | 421.21 | 336.34 | 275.26 | 231.67 | 199.36 | 174.58 |
| 210.0 | 905.12 | 664.62 | 503.17 | 394.51 | 317.46 | 260.75 | 220.47 | 192.07 | 167.21 |
| 240.0 | 862.53 | 643.06 | 489.59 | 390.59 | 307.10 | 256.30 | 216.32 | 187.09 | 164.53 |
| 270.0 | 793.24 | 591.57 | 450.30 | 359.29 | 289.68 | 239.81 | 204.12 | 176.96 | 156.47 |
| 300.0 | 852.55 | 635.39 | 483.45 | 391.36 | 308.18 | 254.54 | 215.25 | 186.63 | 164.45 |
| 330.0 | 866.67 | 642.45 | 487.13 | 383.38 | 306.87 | 255.15 | 217.09 | 188.93 | 165.37 |
| 360.0 | 946.94 | 699.85 | 524.89 | 411.31 | 326.21 | 270.50 | 227.07 | 197.29 | 172.74 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 153.48 | 140.20 | 127.77 | 117.56 | 109.27 | 102.06 | 96.00 | 91.01 | 86.71 |
| 30.0 | 156.01 | 139.66 | 127.15 | 116.72 | 108.28 | 101.75 | 95.92 | 91.09 | 86.56 |
| 60.0 | 155.70 | 139.43 | 126.77 | 116.33 | 108.51 | 100.53 | 95.08 | 89.78 | 85.56 |
| 90.0 | 157.85 | 140.28 | 126.54 | 115.18 | 106.44 | 98.45 | 91.85 | 86.33 | 81.80 |
| 120.0 | 159.84 | 142.19 | 128.69 | 117.49 | 108.66 | 101.37 | 95.69 | 90.32 | 85.95 |
| 150.0 | 161.30 | 144.42 | 129.92 | 118.71 | 109.89 | 103.14 | 97.23 | 92.09 | 87.79 |
| 180.0 | 155.62 | 140.51 | 128.61 | 118.10 | 109.27 | 102.21 | 96.31 | 91.16 | 86.41 |
| 210.0 | 149.18 | 134.29 | 122.40 | 112.96 | 105.28 | 99.22 | 93.93 | 89.09 | 84.87 |
| 240.0 | 146.49 | 133.52 | 120.86 | 112.27 | 104.67 | 98.30 | 92.39 | 87.56 | 83.49 |
| 270.0 | 139.89 | 127.15 | 115.64 | 106.67 | 99.30 | 92.39 | 86.79 | 82.03 | 77.97 |
| 300.0 | 145.80 | 132.68 | 120.86 | 111.27 | 103.83 | 97.30 | 91.62 | 86.94 | 83.03 |
| 330.0 | 147.64 | 133.75 | 121.78 | 112.57 | 105.05 | 98.91 | 93.62 | 88.86 | 85.10 |
| 360.0 | 153.48 | 140.20 | 127.77 | 117.56 | 109.27 | 102.06 | 96.00 | 91.01 | 86.71 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 82.19 | 78.35 | 74.44 | 70.52 | 66.22 | 61.47 | 54.79 | 48.34 | 41.52 |
| 30.0 | 82.57 | 78.66 | 75.05 | 71.29 | 67.22 | 62.85 | 57.86 | 52.03 | 44.97 |
| 60.0 | 81.57 | 77.74 | 74.21 | 70.37 | 66.84 | 62.46 | 58.01 | 52.49 | 44.97 |
| 90.0 | 77.66 | 73.82 | 70.60 | 66.84 | 62.85 | 58.01 | 52.03 | 45.81 | 40.06 |
| 120.0 | 82.03 | 78.27 | 74.67 | 70.91 | 67.30 | 63.23 | 58.63 | 52.49 | 44.89 |
| 150.0 | 83.87 | 79.96 | 76.66 | 73.05 | 68.99 | 64.54 | 59.63 | 53.87 | 45.97 |
| 180.0 | 82.19 | 78.27 | 74.59 | 70.68 | 66.22 | 60.78 | 54.02 | 47.50 | 40.82 |
| 210.0 | 81.03 | 77.43 | 73.28 | 69.91 | 65.61 | 61.01 | 55.56 | 48.81 | 42.21 |
| 240.0 | 79.42 | 75.59 | 71.90 | 68.37 | 64.61 | 60.32 | 55.86 | 50.11 | 42.59 |
| 270.0 | 74.05 | 70.60 | 66.99 | 63.16 | 58.63 | 53.41 | 47.12 | 41.28 | 35.84 |
| 300.0 | 78.89 | 75.13 | 71.52 | 68.07 | 64.31 | 60.47 | 55.40 | 49.42 | 42.28 |
| 330.0 | 81.27 | 77.58 | 73.67 | 70.21 | 65.99 | 61.08 | 56.25 | 50.19 | 43.20 |
| 360.0 | 82.19 | 78.35 | 74.44 | 70.52 | 66.22 | 61.47 | 54.79 | 48.34 | 41.52 |

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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 | 35.76 | 31.00 | 25.55 | 19.03 | 13.66 | 7.52 | 1.92 | 1.30 | 0.61 |
| 30.0 | 38.98 | 32.84 | 27.70 | 22.41 | 14.12 | 9.06 | 3.76 | 1.23 | 0.69 |
| 60.0 | 38.91 | 32.61 | 27.09 | 21.10 | 13.43 | 8.75 | 3.68 | 1.07 | 0.54 |
| 90.0 | 34.84 | 30.16 | 25.78 | 18.88 | 13.51 | 8.29 | 2.92 | 1.07 | 0.69 |
| 120.0 | 38.91 | 32.54 | 27.47 | 21.26 | 13.28 | 8.44 | 3.45 | 1.00 | 0.46 |
| 150.0 | 39.67 | 33.23 | 27.86 | 21.26 | 13.51 | 8.67 | 3.15 | 1.07 | 0.46 |
| 180.0 | 35.22 | 30.16 | 24.48 | 17.27 | 12.43 | 5.99 | 1.61 | 1.07 | 0.46 |
| 210.0 | 36.07 | 30.31 | 25.17 | 18.19 | 11.05 | 6.06 | 1.53 | 0.92 | 0.31 |
| 240.0 | 36.07 | 30.16 | 24.79 | 18.11 | 11.43 | 6.68 | 1.76 | 0.84 | 0.38 |
| 270.0 | 30.85 | 26.78 | 20.80 | 15.04 | 10.67 | 5.29 | 1.61 | 0.92 | 0.31 |
| 300.0 | 35.91 | 30.23 | 25.25 | 19.11 | 11.74 | 6.91 | 2.07 | 1.00 | 0.38 |
| 330.0 | 36.83 | 30.54 | 25.40 | 19.11 | 11.59 | 7.52 | 2.30 | 1.00 | 0.38 |
| 360.0 | 35.76 | 31.00 | 25.55 | 19.03 | 13.66 | 7.52 | 1.92 | 1.30 | 0.61 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0 | 0.08 |
| 30.0 | 0.15 |
| 60.0 | 0.15 |
| 90.0 | 0.15 |
| 120.0 | 0.15 |
| 150.0 | 0.08 |
| 180.0 | 0.08 |
| 210.0 | 0.00 |
| 240.0 | 0.08 |
| 270.0 | 0.00 |
| 300.0 | 0.00 |
| 330.0 | 0.15 |
| 360.0 | 0.08 |