

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F1021A-3-UN (30-OL-3WN-AJ, P1)

报告编号:

电压(V): 220.6000

测试编号: 20210412006

电流(A): 0.0420

光源规格型号: OL

功率(W): 4.4000

每个光源光通量(lm)

功率因数: 0.4670

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): 317.95

灯具效能(lm/w): 72.26

中心光强(cd): 884.247

最大光强(cd): 895.451

最大光强角度: $C=210.0 \gamma=2.0$

半峰边角(50%Imax): [C0/180]Total=28.9

[C90/270]Total=28.9

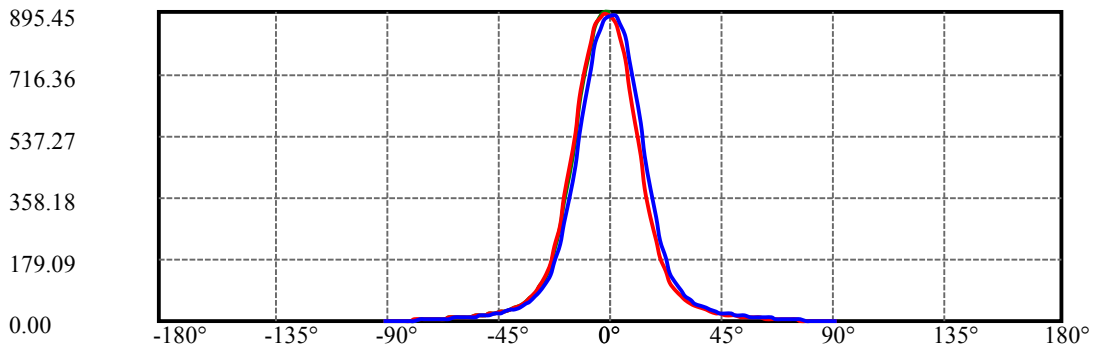
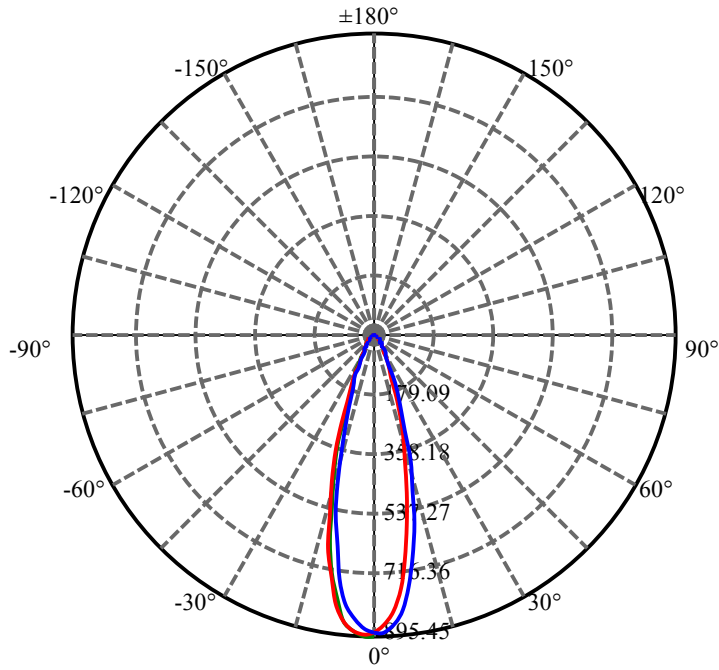
光束扩散角(10%Imax): [C0/180]Total=55.5

[C90/270]Total=55.7

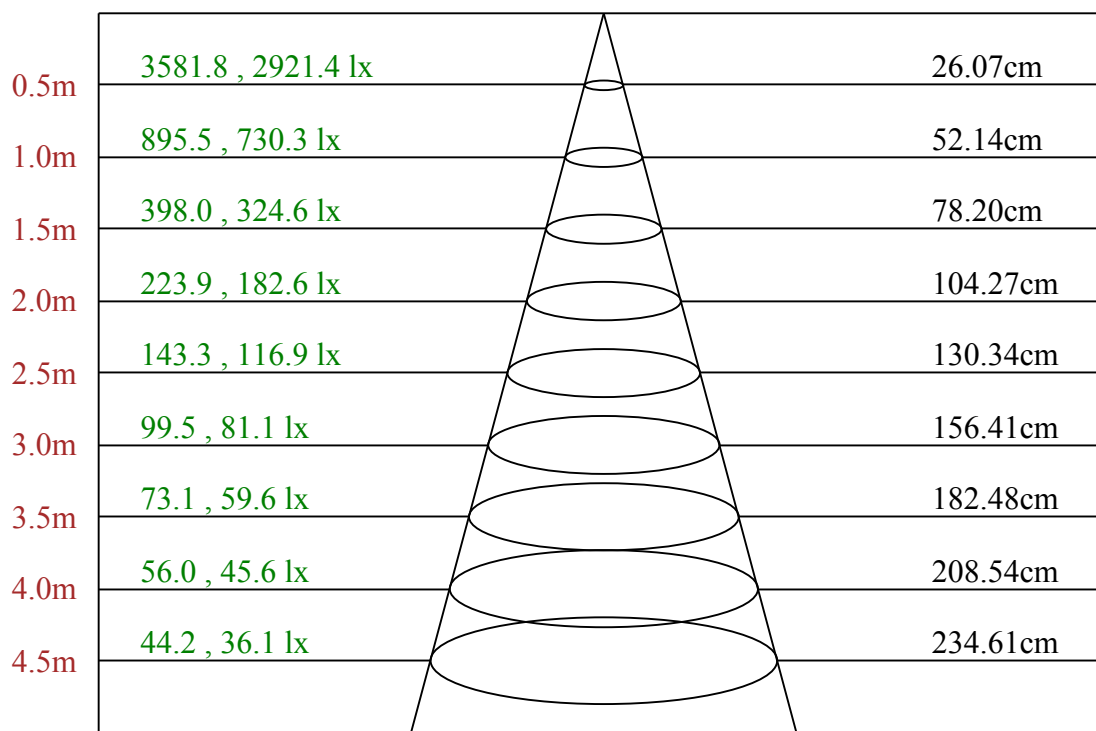
测试设备: GMS1800
环境温度(°C): 25.0

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

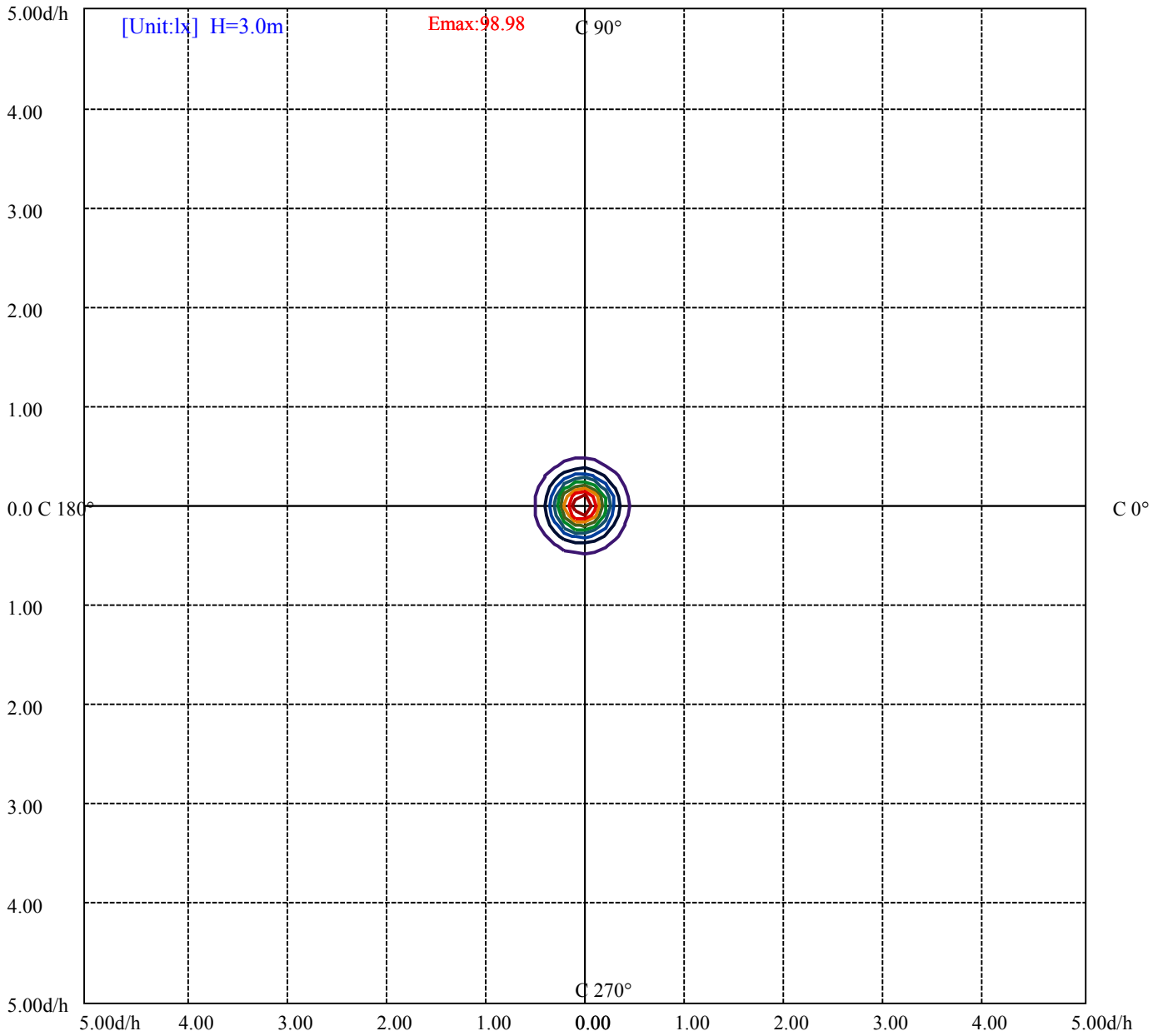


C210(Max): —
C0/C180: —
C90/C270: —



Max , Ave C210面光束角29.21

ROLED 投光灯
平面等照度曲线



- (10%Emax) 9.898278
- (20%Emax) 19.79656
- (30%Emax) 29.69489
- (40%Emax) 39.59311
- (50%Emax) 49.49144
- (60%Emax) 59.38967
- (70%Emax) 69.28799
- (80%Emax) 79.18623
- (90%Emax) 89.08456

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

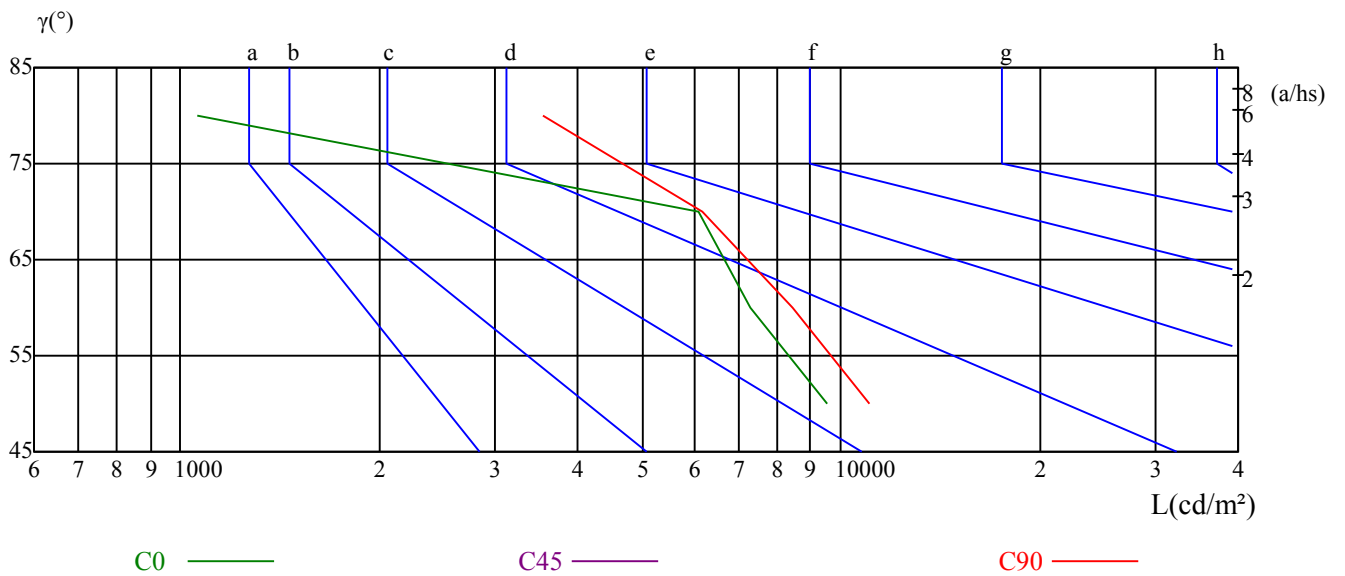
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|-------|----|------|----|------|----|------|----|
| C0 | 0 | 9551 | 0 | 7305 | 0 | 6103 | 0 | 1061 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 11031 | 0 | 8472 | 0 | 6192 | 0 | 3535 | 0 |

| 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

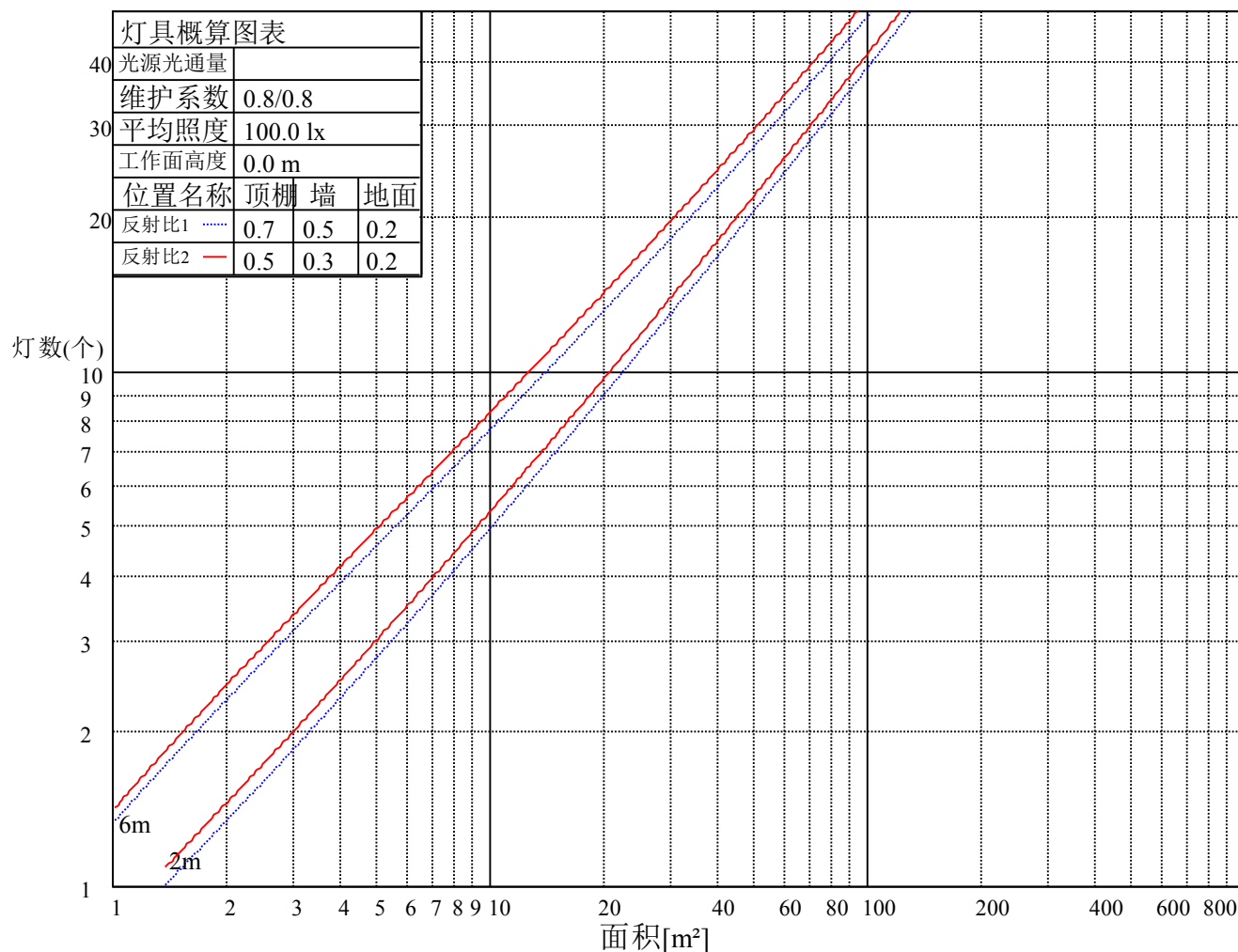
| 眩光等级 | 质量等级 | 使用照度(lx) | | | | | | | |
|------|------|----------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=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 | 19.12 | 20.18 | 19.48 | 20.49 | 20.81 | 19.09 | 20.16 | 19.46 | 20.47 | 20.79 |
| | 3H | 20.48 | 21.42 | 20.86 | 21.75 | 22.12 | 20.50 | 21.45 | 20.89 | 21.78 | 22.15 |
| | 4H | 20.89 | 21.77 | 21.30 | 22.12 | 22.51 | 20.91 | 21.78 | 21.31 | 22.13 | 22.52 |
| | 6H | 21.03 | 21.83 | 21.45 | 22.20 | 22.60 | 21.05 | 21.85 | 21.47 | 22.22 | 22.62 |
| | 8H | 21.02 | 21.77 | 21.45 | 22.16 | 22.57 | 21.04 | 21.79 | 21.48 | 22.19 | 22.59 |
| | 12H | 20.99 | 21.71 | 21.43 | 22.09 | 22.52 | 21.02 | 21.74 | 21.46 | 22.12 | 22.55 |
| 4H | 2H | 19.51 | 20.38 | 19.91 | 20.73 | 21.12 | 19.49 | 20.36 | 19.89 | 20.71 | 21.10 |
| | 3H | 21.06 | 21.77 | 21.47 | 22.18 | 22.59 | 21.08 | 21.79 | 21.49 | 22.20 | 22.61 |
| | 4H | 21.55 | 22.19 | 21.99 | 22.61 | 23.06 | 21.56 | 22.20 | 22.00 | 22.62 | 23.07 |
| | 6H | 21.71 | 22.26 | 22.18 | 22.71 | 23.18 | 21.73 | 22.27 | 22.20 | 22.72 | 23.20 |
| | 8H | 21.70 | 22.21 | 22.18 | 22.66 | 23.14 | 21.73 | 22.23 | 22.20 | 22.68 | 23.16 |
| | 12H | 21.68 | 22.12 | 22.17 | 22.60 | 23.08 | 21.71 | 22.14 | 22.20 | 22.63 | 23.11 |
| 8H | 4H | 21.65 | 22.15 | 22.12 | 22.60 | 23.08 | 21.66 | 22.17 | 22.13 | 22.62 | 23.09 |
| | 6H | 21.85 | 22.25 | 22.36 | 22.76 | 23.24 | 21.87 | 22.27 | 22.37 | 22.77 | 23.26 |
| | 8H | 21.86 | 22.22 | 22.39 | 22.74 | 23.24 | 21.88 | 22.24 | 22.41 | 22.76 | 23.26 |
| | 12H | 22.47 | 22.78 | 22.99 | 23.28 | 23.86 | 22.50 | 22.81 | 23.02 | 23.31 | 23.89 |
| 12H | 4H | 21.61 | 22.05 | 22.10 | 22.53 | 23.01 | 21.62 | 22.06 | 22.11 | 22.55 | 23.02 |
| | 6H | 22.15 | 22.18 | 22.35 | 22.65 | 23.20 | 22.16 | 22.19 | 22.37 | 22.66 | 23.21 |
| | 8H | 21.85 | 22.16 | 22.37 | 22.66 | 23.24 | 21.87 | 22.18 | 22.39 | 22.68 | 23.26 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.7/-0.8 | | | | | 0.6/-0.8 | | | | | |
| S = 1.5H | 1.5/-1.3 | | | | | 1.4/-1.4 | | | | | |
| S = 2.0H | 3.5/-1.7 | | | | | 3.2/-1.8 | | | | | |
| 标准表格 | BK2 | | | | | BK2 | | | | | |
| 更正系数 | -0.4 | | | | | -0.9 | | | | | |

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 | 1.11 | 1.09 | 1.06 | 1.09 | 1.07 | 1.05 | 1.05 | 1.03 | 1.01 | 1.01 | 1.00 | 0.98 | 0.98 | 0.97 | 0.96 | 0.94 |
| 2 | 1.04 | 1.00 | 0.96 | 1.02 | 0.98 | 0.95 | 0.99 | 0.96 | 0.93 | 0.96 | 0.93 | 0.91 | 0.93 | 0.91 | 0.89 | 0.88 |
| 3 | 0.97 | 0.93 | 0.89 | 0.96 | 0.92 | 0.88 | 0.93 | 0.90 | 0.87 | 0.91 | 0.88 | 0.85 | 0.89 | 0.86 | 0.84 | 0.83 |
| 4 | 0.92 | 0.87 | 0.83 | 0.91 | 0.86 | 0.82 | 0.89 | 0.85 | 0.81 | 0.87 | 0.83 | 0.80 | 0.85 | 0.82 | 0.79 | 0.78 |
| 5 | 0.87 | 0.82 | 0.78 | 0.86 | 0.81 | 0.77 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.76 | 0.81 | 0.78 | 0.75 | 0.74 |
| 6 | 0.83 | 0.77 | 0.73 | 0.82 | 0.77 | 0.73 | 0.81 | 0.76 | 0.73 | 0.79 | 0.75 | 0.72 | 0.78 | 0.74 | 0.72 | 0.70 |
| 7 | 0.79 | 0.74 | 0.70 | 0.78 | 0.73 | 0.70 | 0.77 | 0.73 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.69 | 0.67 |
| 8 | 0.76 | 0.70 | 0.67 | 0.75 | 0.70 | 0.66 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.66 | 0.64 |
| 9 | 0.72 | 0.67 | 0.64 | 0.72 | 0.67 | 0.64 | 0.71 | 0.67 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 | 0.66 | 0.63 | 0.62 |
| 10 | 0.70 | 0.65 | 0.61 | 0.69 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.59 |

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 | 884.25 | 861.84 | 822.01 | 755.25 | 674.52 | 571.00 | 475.70 | 384.84 | 302.12 |
| 30.0 | 893.07 | 874.50 | 838.05 | 778.58 | 695.63 | 597.33 | 498.10 | 407.02 | 320.15 |
| 60.0 | 888.62 | 874.42 | 840.20 | 785.72 | 709.52 | 613.90 | 514.53 | 421.67 | 333.96 |
| 90.0 | 886.40 | 882.48 | 860.46 | 821.78 | 757.17 | 669.15 | 570.77 | 477.00 | 383.15 |
| 120.0 | 885.55 | 886.01 | 871.20 | 836.13 | 779.42 | 696.78 | 605.69 | 503.32 | 406.71 |
| 150.0 | 883.25 | 890.39 | 881.48 | 855.16 | 811.42 | 738.91 | 646.97 | 545.60 | 450.45 |
| 180.0 | 884.25 | 890.85 | 881.25 | 855.39 | 808.12 | 734.30 | 647.44 | 544.76 | 449.68 |
| 210.0 | 893.07 | 895.45 | 881.72 | 852.32 | 796.84 | 720.80 | 626.33 | 530.41 | 430.80 |
| 240.0 | 888.62 | 886.86 | 869.21 | 834.91 | 778.50 | 696.55 | 599.55 | 507.62 | 412.46 |
| 270.0 | 886.40 | 875.27 | 846.34 | 801.52 | 730.70 | 639.38 | 542.07 | 451.52 | 361.13 |
| 300.0 | 885.55 | 869.59 | 835.06 | 778.58 | 704.99 | 611.21 | 512.22 | 420.45 | 338.87 |
| 330.0 | 883.25 | 859.38 | 815.26 | 751.64 | 665.62 | 566.78 | 469.33 | 381.77 | 299.05 |
| 360.0 | 884.25 | 861.84 | 822.01 | 755.25 | 674.52 | 571.00 | 475.70 | 384.84 | 302.12 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 236.28 | 182.48 | 142.35 | 109.50 | 88.86 | 71.60 | 59.24 | 49.57 | 41.98 |
| 30.0 | 251.85 | 193.30 | 148.26 | 115.80 | 93.16 | 75.20 | 61.62 | 51.64 | 43.59 |
| 60.0 | 260.75 | 199.98 | 155.70 | 121.32 | 95.92 | 78.12 | 63.92 | 53.03 | 44.74 |
| 90.0 | 301.81 | 236.35 | 180.95 | 139.59 | 109.43 | 88.25 | 71.75 | 59.63 | 49.88 |
| 120.0 | 322.60 | 253.23 | 194.22 | 149.79 | 117.72 | 93.39 | 76.28 | 61.70 | 51.80 |
| 150.0 | 359.67 | 283.85 | 217.24 | 165.98 | 127.77 | 101.29 | 81.11 | 65.92 | 54.64 |
| 180.0 | 360.13 | 280.86 | 215.79 | 168.13 | 129.69 | 101.68 | 82.34 | 66.76 | 55.17 |
| 210.0 | 343.25 | 271.50 | 205.20 | 160.30 | 124.55 | 99.07 | 80.04 | 65.46 | 54.56 |
| 240.0 | 327.36 | 259.68 | 199.75 | 153.48 | 120.09 | 96.23 | 77.50 | 63.46 | 53.10 |
| 270.0 | 285.39 | 224.38 | 172.05 | 134.21 | 106.05 | 85.64 | 69.60 | 57.32 | 48.34 |
| 300.0 | 264.21 | 204.97 | 159.84 | 123.93 | 98.61 | 78.96 | 64.92 | 53.87 | 45.66 |
| 330.0 | 234.97 | 180.79 | 138.90 | 110.43 | 87.56 | 71.29 | 58.70 | 49.50 | 41.75 |
| 360.0 | 236.28 | 182.48 | 142.35 | 109.50 | 88.86 | 71.60 | 59.24 | 49.57 | 41.98 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 36.22 | 31.46 | 27.47 | 24.02 | 21.33 | 19.03 | 17.11 | 15.35 | 13.74 |
| 30.0 | 37.68 | 32.38 | 28.39 | 24.94 | 22.02 | 19.57 | 17.50 | 15.73 | 14.04 |
| 60.0 | 38.60 | 33.38 | 29.39 | 25.71 | 22.64 | 20.11 | 18.11 | 16.19 | 14.58 |
| 90.0 | 42.36 | 36.53 | 31.92 | 27.93 | 24.63 | 21.95 | 19.49 | 17.73 | 15.88 |
| 120.0 | 43.82 | 37.37 | 32.61 | 28.47 | 25.09 | 22.10 | 19.64 | 17.50 | 15.73 |
| 150.0 | 45.97 | 39.44 | 33.92 | 29.47 | 25.78 | 22.79 | 20.11 | 17.88 | 16.11 |
| 180.0 | 46.35 | 39.67 | 34.22 | 29.85 | 26.32 | 23.17 | 20.72 | 18.49 | 16.81 |
| 210.0 | 46.20 | 39.60 | 34.30 | 30.08 | 26.40 | 23.25 | 20.87 | 18.80 | 16.96 |
| 240.0 | 44.74 | 38.60 | 33.07 | 29.01 | 25.40 | 22.48 | 19.95 | 17.80 | 15.96 |
| 270.0 | 41.28 | 35.68 | 30.85 | 26.93 | 23.64 | 21.10 | 18.80 | 16.88 | 15.12 |
| 300.0 | 38.83 | 33.53 | 29.16 | 25.55 | 22.64 | 20.11 | 18.03 | 16.27 | 14.50 |
| 330.0 | 35.91 | 31.23 | 27.24 | 23.94 | 21.26 | 18.88 | 17.04 | 15.35 | 13.81 |
| 360.0 | 36.22 | 31.46 | 27.47 | 24.02 | 21.33 | 19.03 | 17.11 | 15.35 | 13.74 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 12.35 | 11.13 | 10.13 | 9.13 | 8.29 | 7.52 | 6.75 | 5.99 | 5.22 |
| 30.0 | 12.66 | 11.28 | 10.36 | 9.29 | 8.36 | 7.67 | 6.83 | 5.99 | 5.29 |
| 60.0 | 13.20 | 11.89 | 10.59 | 9.52 | 8.52 | 7.60 | 6.68 | 5.83 | 4.91 |
| 90.0 | 14.35 | 12.97 | 11.66 | 10.59 | 9.44 | 8.36 | 7.29 | 6.45 | 5.29 |
| 120.0 | 14.12 | 12.74 | 11.43 | 10.36 | 9.44 | 8.52 | 7.67 | 6.98 | 6.22 |
| 150.0 | 14.27 | 12.89 | 11.66 | 10.51 | 9.52 | 8.59 | 7.83 | 7.14 | 6.45 |
| 180.0 | 15.27 | 13.81 | 12.43 | 11.28 | 10.28 | 9.13 | 8.29 | 7.21 | 6.45 |
| 210.0 | 15.35 | 13.81 | 12.51 | 11.43 | 10.28 | 9.13 | 8.13 | 7.14 | 6.22 |
| 240.0 | 14.35 | 12.97 | 11.59 | 10.51 | 9.59 | 8.59 | 7.83 | 7.14 | 6.22 |
| 270.0 | 13.58 | 12.35 | 11.05 | 10.05 | 9.06 | 8.21 | 7.44 | 6.83 | 6.06 |
| 300.0 | 13.12 | 11.97 | 10.67 | 9.59 | 8.67 | 7.75 | 6.83 | 5.99 | 4.99 |
| 330.0 | 12.51 | 11.28 | 9.98 | 9.06 | 8.06 | 7.14 | 6.37 | 5.45 | 4.45 |
| 360.0 | 12.35 | 11.13 | 10.13 | 9.13 | 8.29 | 7.52 | 6.75 | 5.99 | 5.22 |

ROLED 投光灯

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 | 4.30 | 3.15 | 2.30 | 1.15 | 0.46 | 0.23 | 0.15 | 0.00 | 0.00 |
| 30.0 | 4.45 | 3.30 | 2.53 | 1.30 | 0.54 | 0.23 | 0.15 | 0.00 | 0.00 |
| 60.0 | 3.91 | 3.07 | 2.38 | 1.61 | 0.92 | 0.38 | 0.15 | 0.00 | 0.00 |
| 90.0 | 4.45 | 3.68 | 2.84 | 2.07 | 1.53 | 0.77 | 0.31 | 0.23 | 0.08 |
| 120.0 | 5.29 | 4.45 | 3.30 | 2.38 | 1.53 | 0.61 | 0.31 | 0.23 | 0.08 |
| 150.0 | 5.53 | 4.83 | 3.99 | 3.07 | 2.00 | 0.92 | 0.31 | 0.23 | 0.08 |
| 180.0 | 5.45 | 4.53 | 3.76 | 2.84 | 2.23 | 1.46 | 0.61 | 0.31 | 0.23 |
| 210.0 | 5.29 | 4.37 | 3.45 | 2.61 | 1.92 | 1.23 | 0.54 | 0.31 | 0.15 |
| 240.0 | 5.45 | 4.60 | 3.61 | 2.69 | 1.69 | 0.69 | 0.23 | 0.15 | 0.08 |
| 270.0 | 5.29 | 4.30 | 3.15 | 2.23 | 1.00 | 0.38 | 0.23 | 0.15 | 0.00 |
| 300.0 | 3.99 | 3.30 | 2.53 | 1.76 | 1.07 | 0.46 | 0.23 | 0.08 | 0.00 |
| 330.0 | 3.53 | 2.76 | 2.07 | 1.61 | 0.77 | 0.31 | 0.23 | 0.00 | 0.00 |
| 360.0 | 4.30 | 3.15 | 2.30 | 1.15 | 0.46 | 0.23 | 0.15 | 0.00 | 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 | 0.08 |
| 210.0 | 0.00 |
| 240.0 | 0.00 |
| 270.0 | 0.00 |
| 300.0 | 0.00 |
| 330.0 | 0.00 |
| 360.0 | 0.00 |