

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F2032A-108-UN(15-OL-108WN-AA, CT)

报告编号:

电压(V): 219.0000

测试编号: 20210423001

电流(A): 0.5460

光源规格型号: OL

功率(W): 118.0000

每个光源光通量(lm)

功率因数: 0.9870

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

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## 光度结果

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灯具光通量(lm): 11047.92

灯具效能(lm/w): 93.63

中心光强(cd): 82585.000

最大光强(cd): 83290.990

最大光强角度: C=60.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=15.0

[C90/270]Total=15.1

光束扩散角(10%Imax): [C0/180]Total=32.4

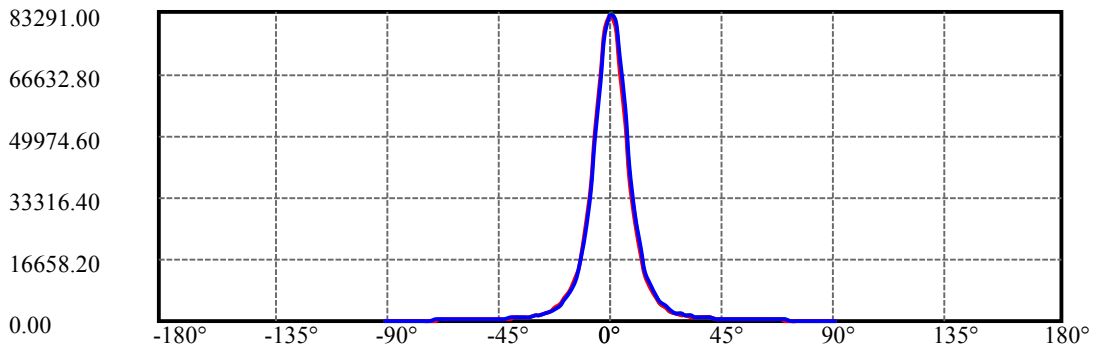
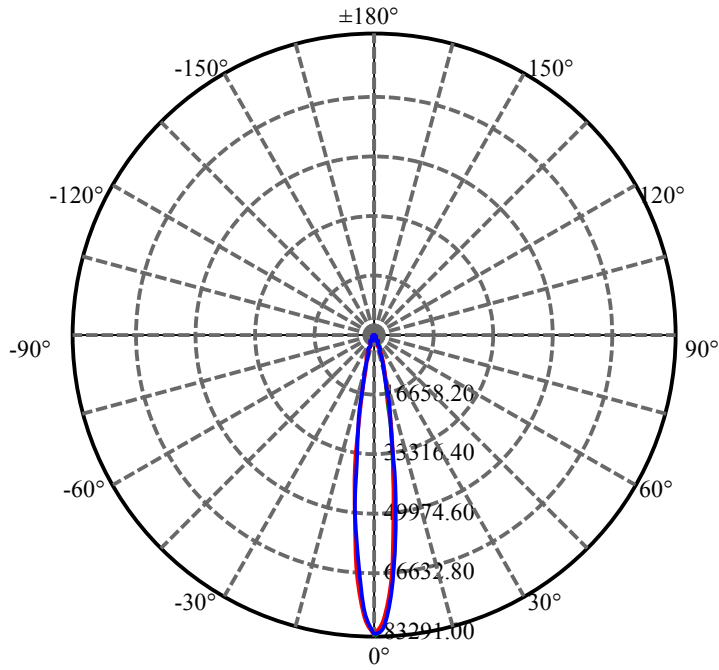
[C90/270]Total=32.7

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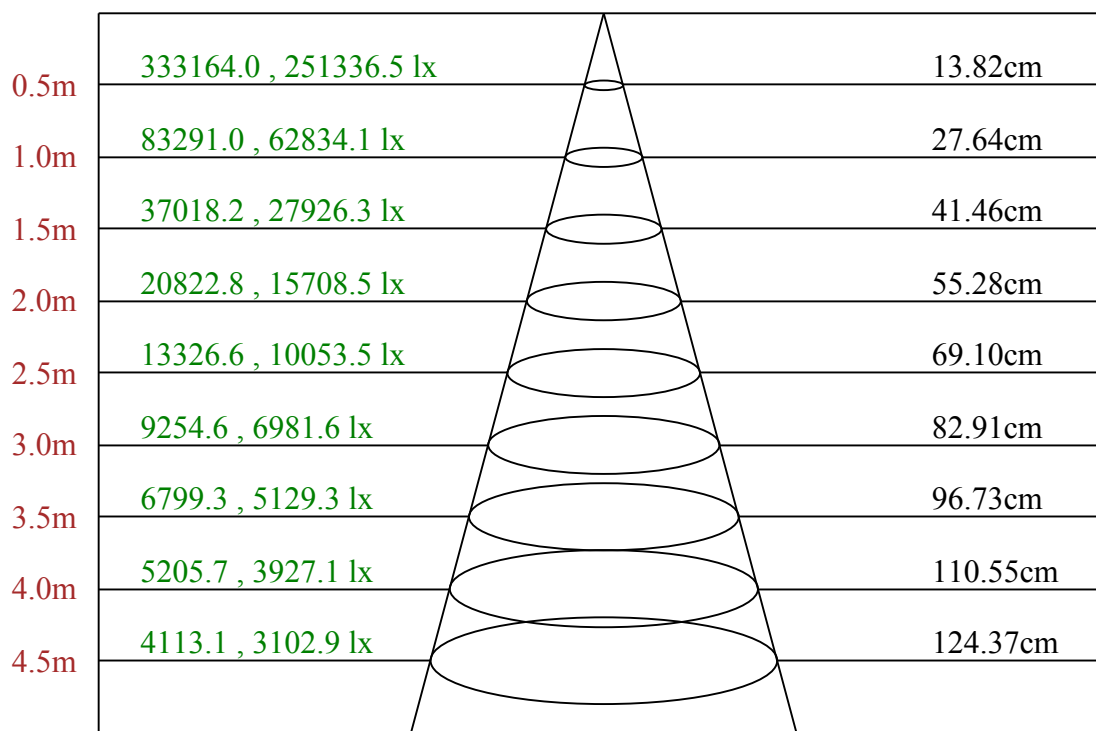
测试设备: GMS1800  
环境温度(°C): 25.0

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

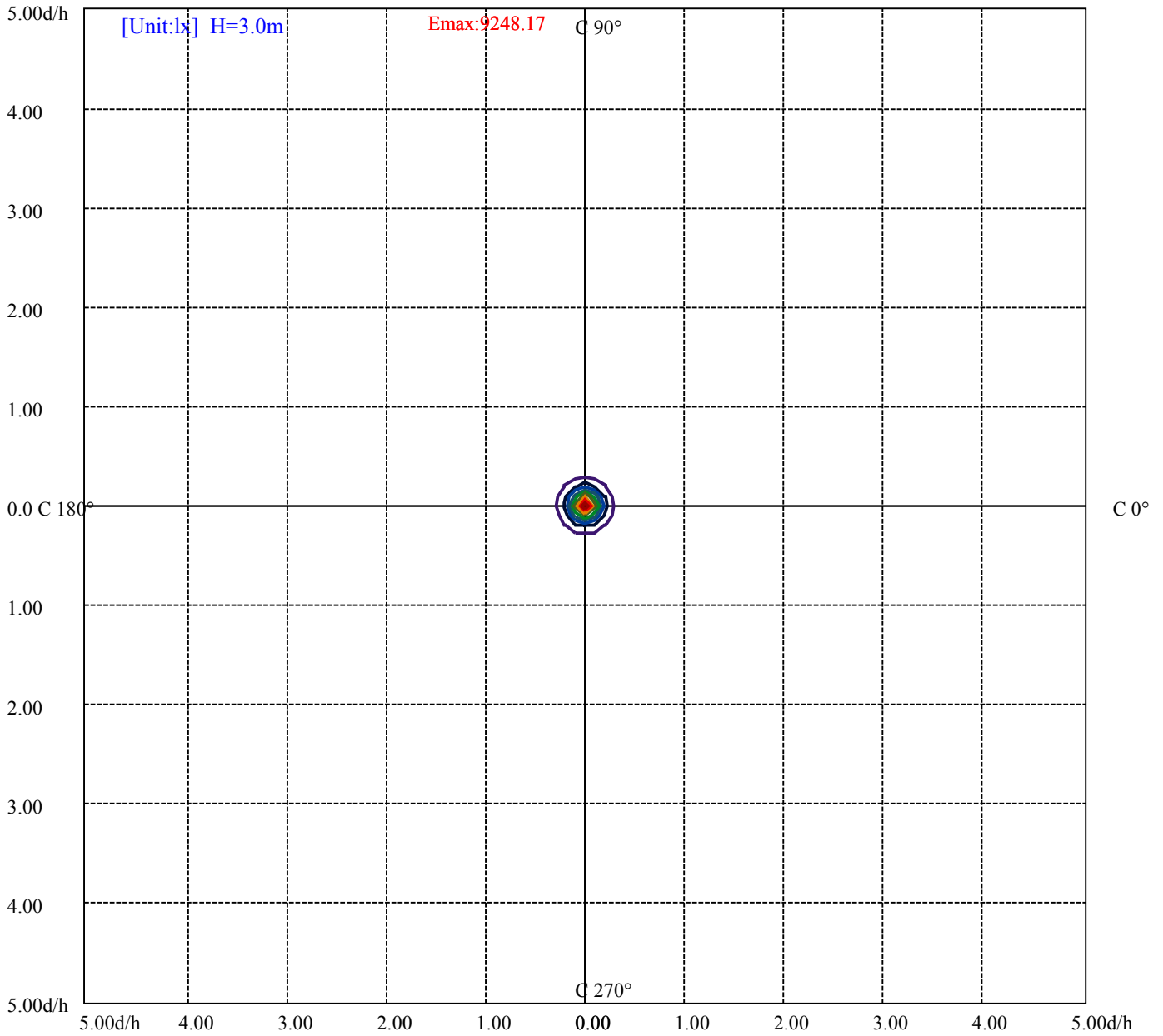


C60(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C60面光束角15.74

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 924.8145
- (20%Emax) 1849.633
- (30%Emax) 2774.444
- (40%Emax) 3699.256
- (50%Emax) 4624.067
- (60%Emax) 5548.889
- (70%Emax) 6473.7
- (80%Emax) 7398.511
- (90%Emax) 8323.322

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

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

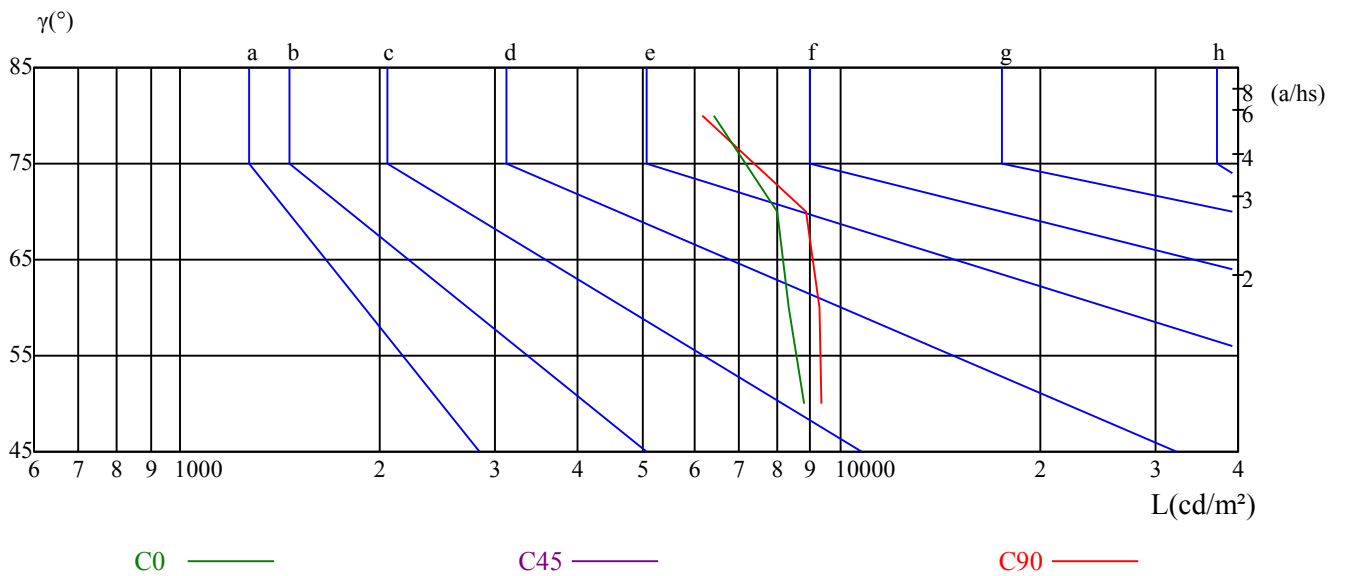
| $\gamma$ | 45 | 50   | 55 | 60   | 65 | 70   | 75 | 80   | 85 |
|----------|----|------|----|------|----|------|----|------|----|
| C0       | 0  | 8801 | 0  | 8346 | 0  | 8033 | 0  | 6426 | 0  |
| C45      | 0  | 0    | 0  | 0    | 0  | 0    | 0  | 0    | 0  |
| C90      | 0  | 9349 | 0  | 9313 | 0  | 8860 | 0  | 6190 | 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     |

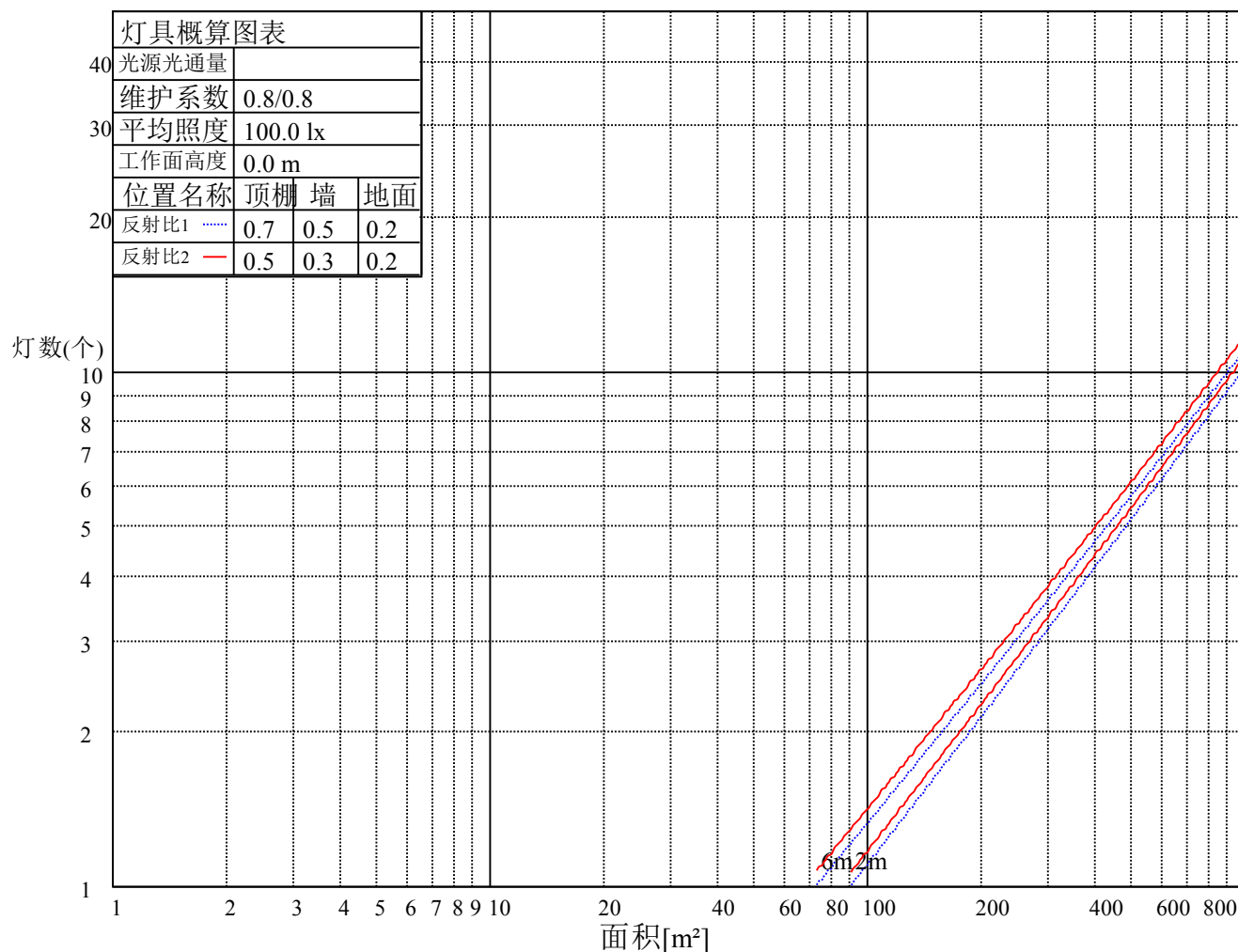
亮度限制曲线



| 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               | 7.44  | 8.51  | 7.80  | 8.82  | 9.14           | 7.15  | 8.22  | 7.51  | 8.53  | 8.85  |
|                 | 3H               | 9.32  | 10.27 | 9.70  | 10.61 | 10.97          | 9.07  | 10.02 | 9.45  | 10.35 | 10.72 |
|                 | 4H               | 9.93  | 10.82 | 10.34 | 11.17 | 11.56          | 9.75  | 10.63 | 10.15 | 10.98 | 11.37 |
|                 | 6H               | 10.27 | 11.08 | 10.69 | 11.45 | 11.85          | 10.19 | 11.00 | 10.60 | 11.37 | 11.77 |
|                 | 8H               | 10.32 | 11.08 | 10.75 | 11.47 | 11.88          | 10.29 | 11.05 | 10.73 | 11.45 | 11.86 |
|                 | 12H              | 10.33 | 11.06 | 10.76 | 11.44 | 11.87          | 10.38 | 11.11 | 10.81 | 11.49 | 11.92 |
| 4H              | 2H               | 8.06  | 8.95  | 8.47  | 9.30  | 9.69           | 7.84  | 8.72  | 8.25  | 9.08  | 9.47  |
|                 | 3H               | 10.12 | 10.85 | 10.54 | 11.26 | 11.66          | 9.98  | 10.71 | 10.40 | 11.11 | 11.52 |
|                 | 4H               | 10.84 | 11.49 | 11.28 | 11.91 | 12.36          | 10.77 | 11.42 | 11.21 | 11.84 | 12.29 |
|                 | 6H               | 11.19 | 11.75 | 11.66 | 12.20 | 12.67          | 11.21 | 11.77 | 11.68 | 12.22 | 12.69 |
|                 | 8H               | 11.26 | 11.78 | 11.74 | 12.23 | 12.70          | 11.35 | 11.87 | 11.82 | 12.31 | 12.79 |
|                 | 12H              | 11.27 | 11.72 | 11.76 | 12.21 | 12.68          | 11.43 | 11.88 | 11.92 | 12.37 | 12.84 |
| 8H              | 4H               | 11.08 | 11.60 | 11.56 | 12.05 | 12.53          | 11.02 | 11.54 | 11.50 | 11.99 | 12.46 |
|                 | 6H               | 11.54 | 11.95 | 12.05 | 12.45 | 12.94          | 11.60 | 12.01 | 12.11 | 12.51 | 13.00 |
|                 | 8H               | 11.65 | 12.01 | 12.18 | 12.54 | 13.03          | 11.79 | 12.16 | 12.32 | 12.68 | 13.17 |
|                 | 12H              | 12.23 | 12.54 | 12.75 | 13.04 | 13.62          | 12.40 | 12.72 | 12.92 | 13.21 | 13.79 |
| 12H             | 4H               | 11.08 | 11.53 | 11.57 | 12.02 | 12.49          | 11.01 | 11.46 | 11.50 | 11.95 | 12.42 |
|                 | 6H               | 11.91 | 11.93 | 12.09 | 12.40 | 12.95          | 11.96 | 11.98 | 12.15 | 12.45 | 13.00 |
|                 | 8H               | 11.70 | 12.02 | 12.22 | 12.52 | 13.09          | 11.84 | 12.16 | 12.37 | 12.66 | 13.24 |
| 对应照射距离，改变观察者位置S |                  |       |       |       |       |                |       |       |       |       |       |
| S = 1.0H        | 0.2/-0.6         |       |       |       |       | 0.2/-0.6       |       |       |       |       |       |
| S = 1.5H        | 0.8/-0.6         |       |       |       |       | 0.7/-0.6       |       |       |       |       |       |
| S = 2.0H        | 0.9/-0.7         |       |       |       |       | 0.8/-0.8       |       |       |       |       |       |
| 标准表格            | BK3              |       |       |       |       | BK4            |       |       |       |       |       |
| 更正系数            | 1.3              |       |       |       |       | 1.8            |       |       |       |       |       |

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## 灯具的概算曲线



| 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 | 1.03 | 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 | 0.90 | 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 | 0.84 | 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 |



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    | 82585.01 | 78725.10 | 67298.88 | 52818.49 | 38322.76 | 26152.17 | 17580.58 | 12354.75 | 8679.02 |
| 30.0   | 83175.88 | 81188.38 | 70982.28 | 56340.75 | 41967.79 | 28899.38 | 19552.74 | 13651.62 | 9538.48 |
| 60.0   | 83290.99 | 80290.55 | 69539.61 | 54936.45 | 39642.64 | 27725.29 | 18846.75 | 13099.11 | 9210.05 |
| 90.0   | 82838.24 | 80774.00 | 71342.95 | 56862.56 | 41699.21 | 28684.51 | 19813.65 | 13597.90 | 9707.31 |
| 120.0  | 82654.07 | 78993.69 | 67728.61 | 53716.32 | 38599.01 | 26390.06 | 18332.61 | 12568.08 | 9046.60 |
| 150.0  | 82469.90 | 79768.74 | 68956.41 | 54038.62 | 39036.42 | 27188.13 | 18440.05 | 12968.65 | 9162.47 |
| 180.0  | 82585.01 | 78019.12 | 65994.34 | 50930.75 | 36780.33 | 25016.46 | 15057.45 | 11892.03 | 8410.44 |
| 210.0  | 83175.88 | 77044.55 | 63776.62 | 49127.41 | 34746.79 | 23389.62 | 15283.06 | 11200.62 | 7903.21 |
| 240.0  | 83290.99 | 78080.51 | 65702.73 | 50830.99 | 36404.32 | 24617.42 | 16536.95 | 11671.79 | 8233.94 |
| 270.0  | 82838.24 | 76446.00 | 64068.22 | 48789.77 | 35122.80 | 23136.39 | 15038.27 | 10997.27 | 7884.02 |
| 300.0  | 82654.07 | 77765.88 | 66424.07 | 51022.83 | 37317.49 | 25369.45 | 16989.70 | 11786.90 | 8310.68 |
| 330.0  | 82469.90 | 77044.55 | 64398.19 | 49994.55 | 35590.90 | 24026.54 | 15109.63 | 11492.22 | 8113.47 |
| 360.0  | 82585.01 | 78725.10 | 67298.88 | 52818.49 | 38322.76 | 26152.17 | 17580.58 | 12354.75 | 8679.02 |
| C/γ(°) | 18.0     | 20.0     | 22.0     | 24.0     | 26.0     | 28.0     | 30.0     | 32.0     | 34.0    |
| 0.0    | 6208.07  | 4611.93  | 3469.31  | 2724.95  | 2147.12  | 1764.20  | 1473.36  | 1268.47  | 1098.12 |
| 30.0   | 6829.65  | 5018.64  | 3905.94  | 2891.47  | 2303.66  | 1857.82  | 1543.19  | 1317.58  | 1134.18 |
| 60.0   | 6617.08  | 4775.38  | 3632.76  | 2820.87  | 2220.79  | 1818.68  | 1526.31  | 1296.87  | 1122.21 |
| 90.0   | 6944.75  | 5010.97  | 3905.94  | 2930.61  | 2302.90  | 1859.35  | 1559.31  | 1322.19  | 1150.30 |
| 120.0  | 6421.40  | 4737.01  | 3577.51  | 2824.71  | 2225.39  | 1810.24  | 1523.70  | 1308.07  | 1132.80 |
| 150.0  | 6591.76  | 4857.49  | 3921.29  | 2837.76  | 2238.44  | 1832.49  | 1528.61  | 1309.14  | 1132.65 |
| 180.0  | 6063.04  | 4410.88  | 3383.36  | 2639.77  | 2115.66  | 1724.29  | 1453.26  | 1238.78  | 1082.61 |
| 210.0  | 5706.98  | 4258.94  | 3231.42  | 2564.57  | 2045.82  | 1672.88  | 1416.50  | 1221.51  | 1057.83 |
| 240.0  | 5893.45  | 4404.74  | 3338.85  | 2634.40  | 2104.91  | 1716.62  | 1440.36  | 1243.92  | 1078.93 |
| 270.0  | 5680.88  | 4179.90  | 3221.44  | 2532.34  | 2025.87  | 1663.67  | 1425.78  | 1224.04  | 1073.94 |
| 300.0  | 6069.94  | 4466.13  | 3440.91  | 2683.51  | 2143.28  | 1753.45  | 1484.11  | 1273.84  | 1106.56 |
| 330.0  | 5952.54  | 4374.04  | 3318.90  | 2638.24  | 2101.84  | 1718.92  | 1457.86  | 1258.34  | 1094.12 |
| 360.0  | 6208.07  | 4611.93  | 3469.31  | 2724.95  | 2147.12  | 1764.20  | 1473.36  | 1268.47  | 1098.12 |
| C/γ(°) | 36.0     | 38.0     | 40.0     | 42.0     | 44.0     | 46.0     | 48.0     | 50.0     | 52.0    |
| 0.0    | 966.89   | 868.67   | 781.19   | 711.36   | 653.80   | 606.23   | 564.02   | 529.49   | 499.56  |
| 30.0   | 992.22   | 880.18   | 794.23   | 722.10   | 664.55   | 617.74   | 578.60   | 544.84   | 515.68  |
| 60.0   | 993.37   | 883.17   | 798.61   | 728.39   | 671.91   | 625.41   | 589.11   | 556.27   | 528.57  |
| 90.0   | 1011.40  | 902.43   | 814.19   | 743.59   | 686.80   | 637.69   | 597.79   | 562.49   | 531.79  |
| 120.0  | 997.67   | 894.53   | 807.97   | 742.44   | 685.96   | 639.22   | 600.01   | 567.55   | 539.08  |
| 150.0  | 995.29   | 887.09   | 801.91   | 732.08   | 675.29   | 630.02   | 589.34   | 555.58   | 523.35  |
| 180.0  | 954.92   | 851.94   | 772.21   | 703.45   | 646.13   | 597.71   | 558.80   | 524.35   | 496.11  |
| 210.0  | 934.05   | 837.82   | 755.64   | 695.32   | 639.91   | 598.71   | 562.56   | 532.41   | 505.16  |
| 240.0  | 950.01   | 854.86   | 770.45   | 705.99   | 653.80   | 613.13   | 575.53   | 547.14   | 518.75  |
| 270.0  | 954.85   | 858.46   | 780.34   | 719.49   | 664.39   | 618.74   | 583.05   | 549.90   | 522.28  |
| 300.0  | 983.78   | 880.95   | 800.37   | 734.38   | 680.66   | 634.62   | 594.72   | 563.25   | 533.33  |
| 330.0  | 970.04   | 872.81   | 789.09   | 726.63   | 668.61   | 624.64   | 586.05   | 553.51   | 523.58  |
| 360.0  | 966.89   | 868.67   | 781.19   | 711.36   | 653.80   | 606.23   | 564.02   | 529.49   | 499.56  |
| C/γ(°) | 54.0     | 56.0     | 58.0     | 60.0     | 62.0     | 64.0     | 66.0     | 68.0     | 70.0    |
| 0.0    | 471.94   | 437.40   | 413.62   | 390.59   | 368.19   | 342.48   | 315.01   | 286.54   | 257.15  |
| 30.0   | 491.12   | 466.56   | 443.54   | 423.59   | 402.11   | 387.52   | 351.15   | 321.07   | 291.53  |
| 60.0   | 504.24   | 479.99   | 458.51   | 435.87   | 411.62   | 384.61   | 354.30   | 318.15   | 283.47  |
| 90.0   | 504.93   | 481.14   | 458.89   | 435.87   | 413.62   | 388.29   | 352.23   | 317.85   | 283.62  |
| 120.0  | 499.64   | 477.08   | 454.29   | 431.96   | 407.86   | 382.84   | 351.61   | 318.15   | 283.85  |
| 150.0  | 498.79   | 474.24   | 451.98   | 430.50   | 409.01   | 388.29   | 357.83   | 327.82   | 296.59  |
| 180.0  | 460.50   | 435.72   | 412.85   | 391.67   | 366.58   | 339.95   | 313.86   | 285.16   | 257.68  |
| 210.0  | 480.38   | 458.43   | 436.41   | 415.00   | 391.36   | 366.12   | 336.11   | 305.57   | 274.95  |
| 240.0  | 493.42   | 470.40   | 447.38   | 425.13   | 399.04   | 371.87   | 337.26   | 304.03   | 269.20  |
| 270.0  | 495.19   | 469.86   | 445.85   | 420.98   | 393.05   | 360.44   | 328.74   | 296.51   | 260.60  |
| 300.0  | 507.24   | 482.68   | 458.12   | 425.13   | 400.57   | 371.26   | 338.87   | 305.95   | 271.27  |
| 330.0  | 496.65   | 472.63   | 449.61   | 427.27   | 402.57   | 376.70   | 347.01   | 317.54   | 284.62  |
| 360.0  | 471.94   | 437.40   | 413.62   | 390.59   | 368.19   | 342.48   | 315.01   | 286.54   | 257.15  |

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

# 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    | 227.45 | 195.22 | 164.30 | 133.98 | 104.44 | 73.13 | 42.59 | 15.73 | 2.61 |
| 30.0   | 259.07 | 227.37 | 189.62 | 152.09 | 117.49 | 81.96 | 47.58 | 18.88 | 3.53 |
| 60.0   | 251.70 | 218.24 | 173.89 | 137.51 | 99.84  | 64.00 | 33.99 | 6.45  | 3.91 |
| 90.0   | 245.71 | 205.81 | 170.89 | 132.45 | 100.60 | 67.68 | 30.62 | 5.76  | 4.30 |
| 120.0  | 250.47 | 218.47 | 172.97 | 138.90 | 100.07 | 65.53 | 35.22 | 6.52  | 3.84 |
| 150.0  | 258.99 | 226.22 | 189.47 | 153.32 | 118.79 | 83.41 | 48.96 | 19.95 | 3.53 |
| 180.0  | 224.92 | 194.68 | 164.68 | 133.06 | 104.13 | 72.82 | 43.13 | 16.50 | 2.61 |
| 210.0  | 243.64 | 207.81 | 167.59 | 135.83 | 101.68 | 66.07 | 33.99 | 10.13 | 2.84 |
| 240.0  | 239.42 | 200.90 | 158.54 | 127.15 | 90.86  | 56.71 | 23.64 | 4.76  | 3.38 |
| 270.0  | 219.09 | 184.09 | 149.79 | 114.34 | 79.58  | 46.96 | 13.35 | 4.45  | 3.15 |
| 300.0  | 239.81 | 204.35 | 161.84 | 128.00 | 93.24  | 57.17 | 23.87 | 4.76  | 3.30 |
| 330.0  | 252.54 | 211.41 | 169.44 | 137.36 | 103.29 | 67.99 | 35.45 | 10.82 | 2.84 |
| 360.0  | 227.45 | 195.22 | 164.30 | 133.98 | 104.44 | 73.13 | 42.59 | 15.73 | 2.61 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0    | 1.00 |
| 30.0   | 1.53 |
| 60.0   | 1.61 |
| 90.0   | 1.61 |
| 120.0  | 1.61 |
| 150.0  | 1.53 |
| 180.0  | 1.30 |
| 210.0  | 0.92 |
| 240.0  | 0.92 |
| 270.0  | 0.92 |
| 300.0  | 0.92 |
| 330.0  | 1.00 |
| 360.0  | 1.00 |