

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F3083A-24-UN-RC-Y(5030-XL-24RGBWN-AJ, L610mm, C, CT)

报告编号:

电压(V): 219.0000

测试编号: 20210422001

电流(A): 0.4690

光源规格型号: XL

功率(W): 101.0000

每个光源光通量(lm)

功率因数: 0.9820

光源数量: 24

镇流器型号:

发光面长度(mm): 550

发光面宽度(mm): 100

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): 4209.19

灯具效能(lm/w): 41.68

中心光强(cd): 7739.754

最大光强(cd): 7946.179

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=53.9

[C90/270]Total=29.4

光束扩散角(10%Imax): [C0/180]Total=86.9

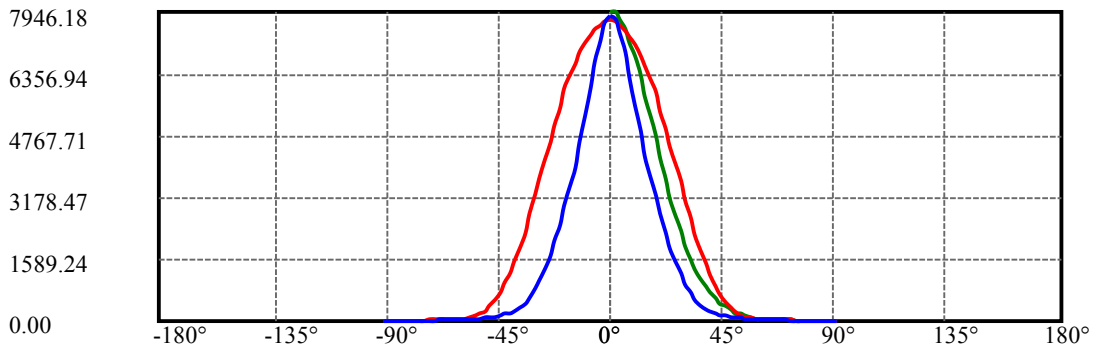
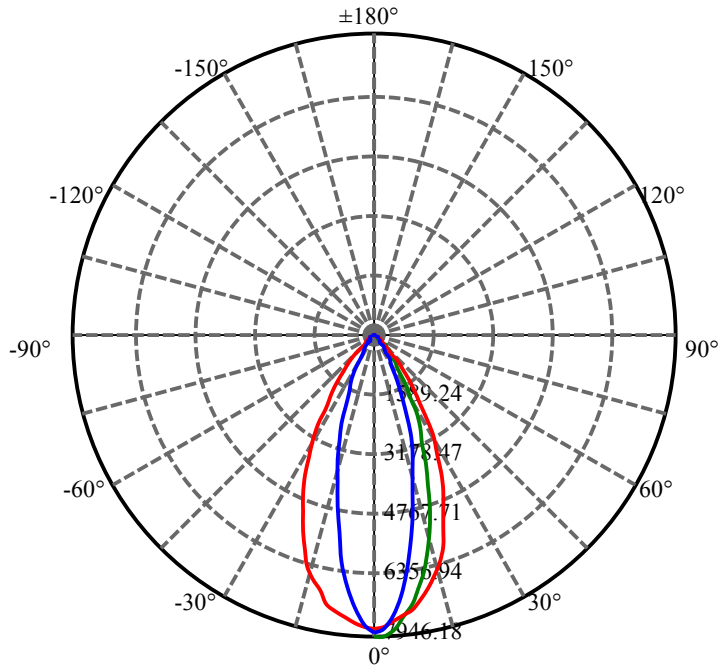
[C90/270]Total=61.8

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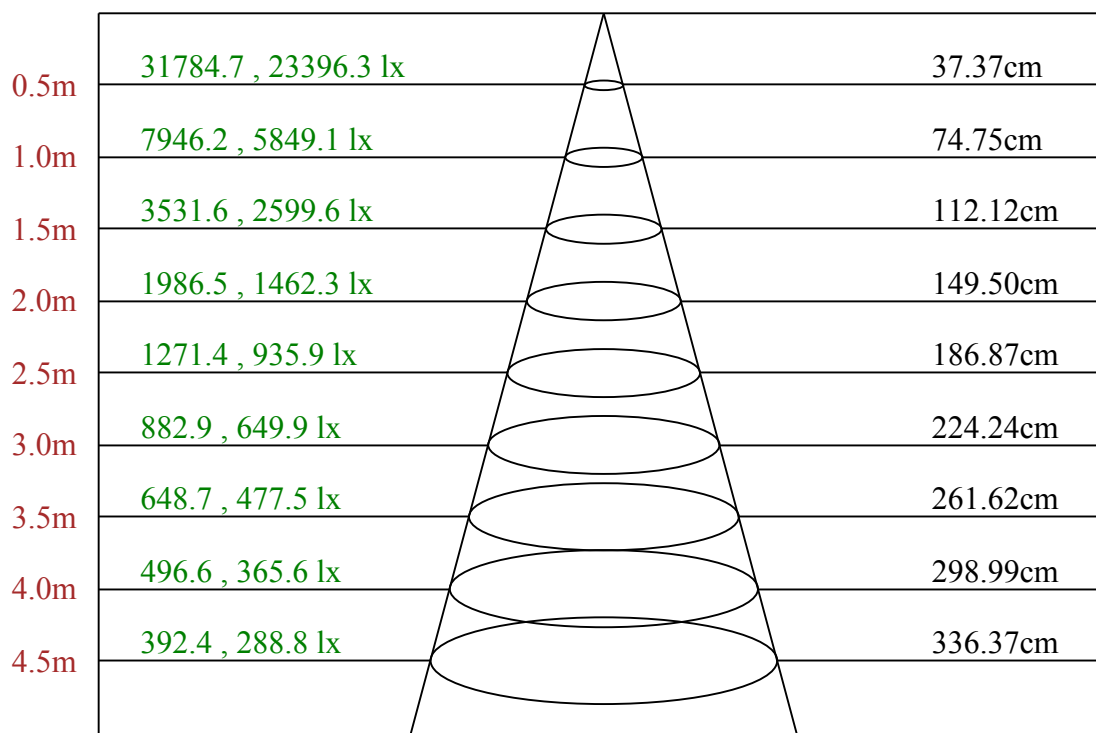
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/22  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

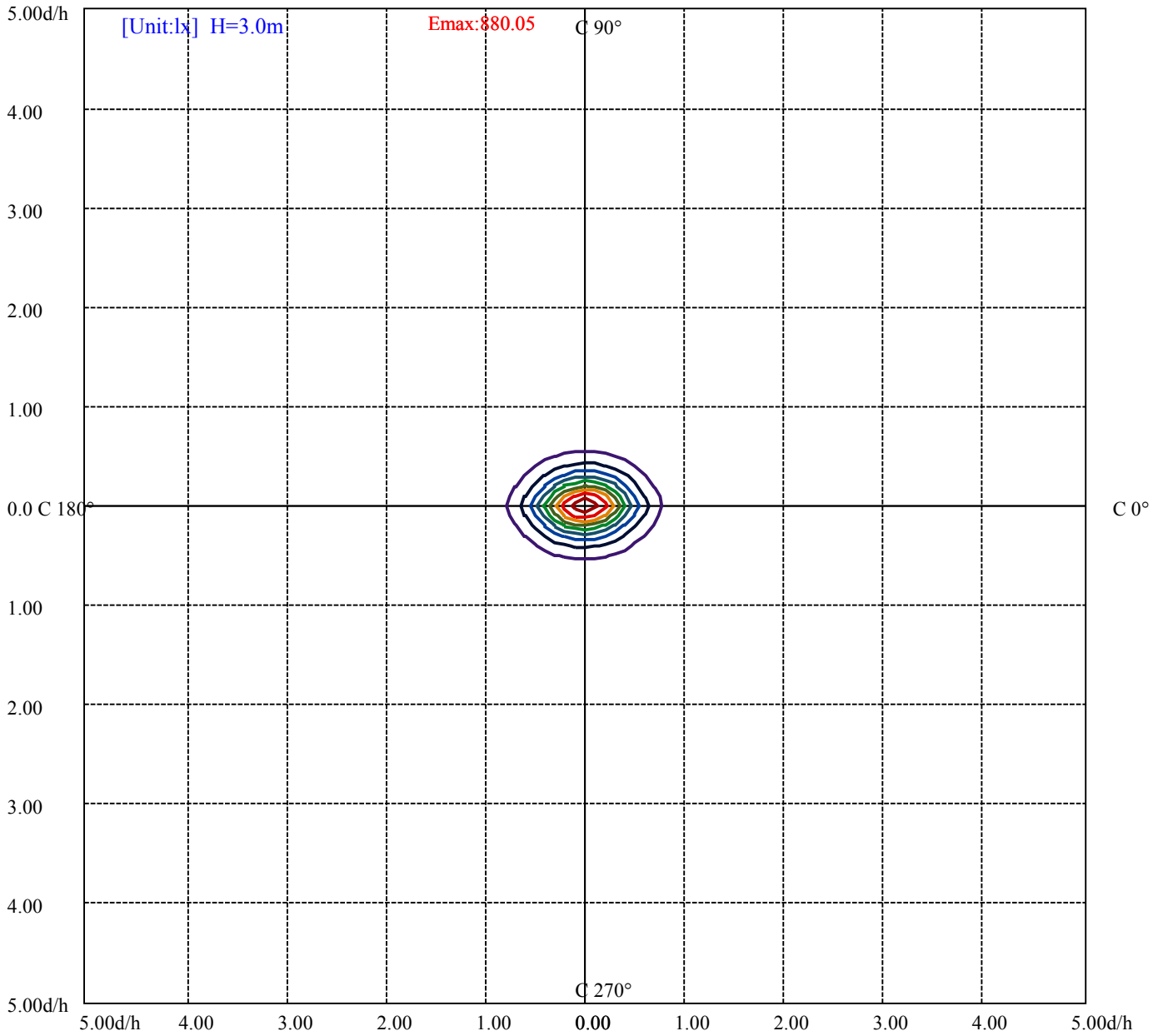


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角40.98

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 88.00511
- (20%Emax) 176.01
- (30%Emax) 264.0155
- (40%Emax) 352.0211
- (50%Emax) 440.0255
- (60%Emax) 528.0311
- (70%Emax) 616.0355
- (80%Emax) 704.0411
- (90%Emax) 792.0466

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

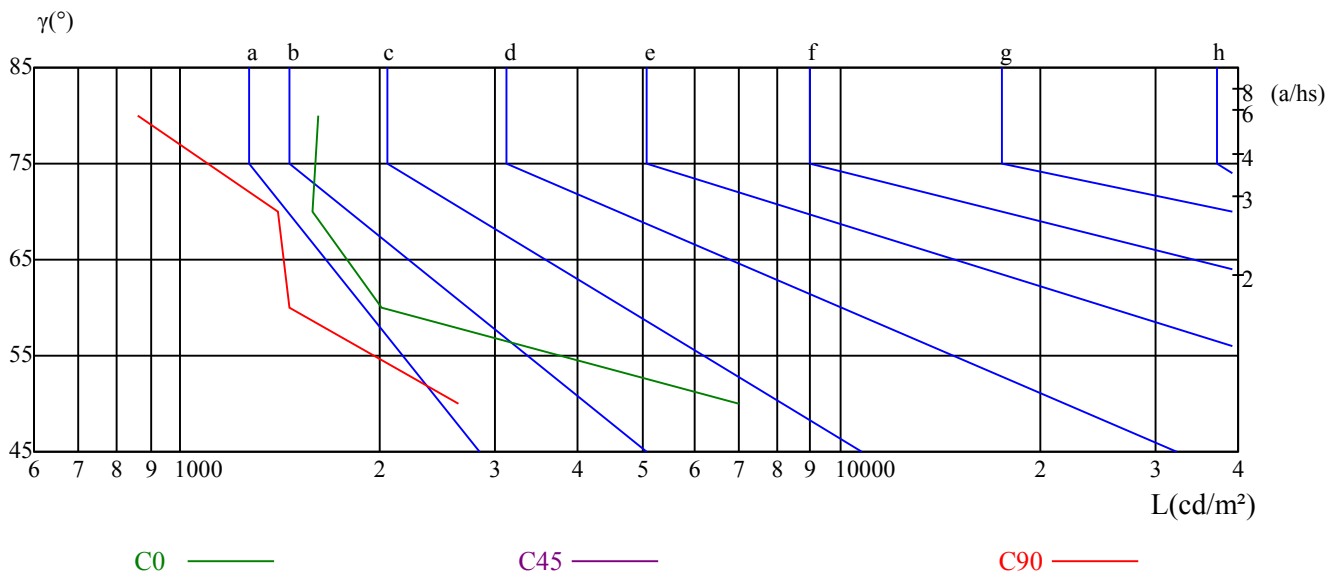
| $\gamma$ | 45 | 50   | 55 | 60   | 65 | 70   | 75 | 80   | 85 |
|----------|----|------|----|------|----|------|----|------|----|
| C0       | 0  | 7011 | 0  | 2023 | 0  | 1587 | 0  | 1615 | 0  |
| C45      | 0  | 0    | 0  | 0    | 0  | 0    | 0  | 0    | 0  |
| C90      | 0  | 2644 | 0  | 1465 | 0  | 1407 | 0  | 860  | 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  | $\leq 300$ |            |            |            |            |
| 1.5  | B    |          | 2000 | 1000 | 500        | $\leq 300$ |            |            |            |
| 1.85 | C    |          |      | 2000 | 1000       | 500        | $\leq 300$ |            |            |
| 2.2  | D    |          |      |      | 2000       | 1000       | 500        | $\leq 300$ |            |
| 2.55 | E    |          |      |      |            | 2000       | 1000       | 500        | $\leq 300$ |
|      |      | a        | b    | c    | d          | e          | f          | g          | h          |

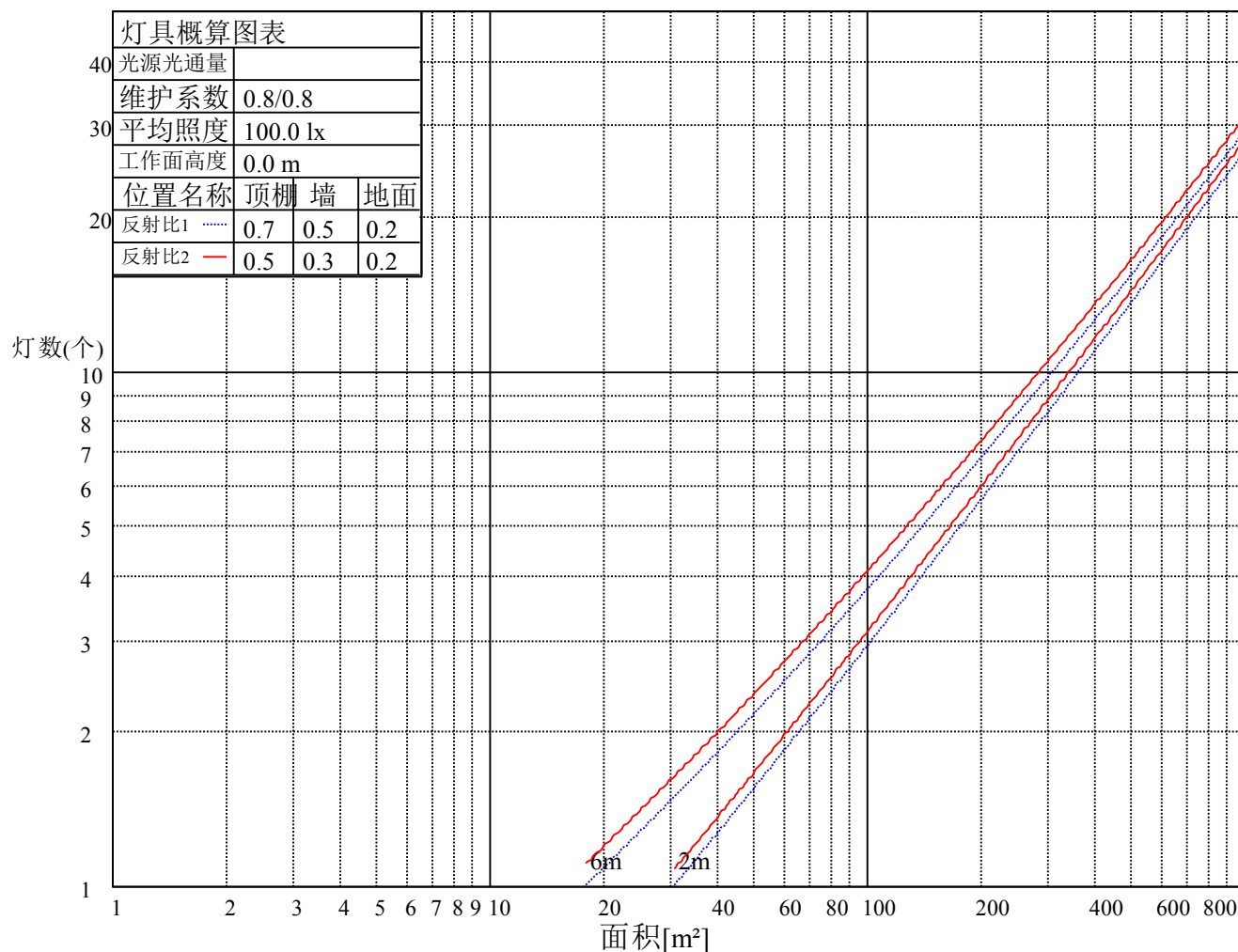
亮度限制曲线



| 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  | 2.52             | 3.52 | 2.88 | 3.84 | 4.15 | 3.91           | 4.92 | 4.28 | 5.23 | 5.55 |
|                 | 3H  | 3.19             | 4.08 | 3.57 | 4.41 | 4.78 | 4.67           | 5.56 | 5.06 | 5.89 | 6.26 |
|                 | 4H  | 3.38             | 4.20 | 3.79 | 4.55 | 4.94 | 5.05           | 5.87 | 5.46 | 6.22 | 6.61 |
|                 | 6H  | 3.46             | 4.21 | 3.88 | 4.58 | 4.98 | 5.39           | 6.14 | 5.81 | 6.52 | 6.92 |
|                 | 8H  | 3.46             | 4.16 | 3.89 | 4.55 | 4.96 | 5.52           | 6.22 | 5.95 | 6.61 | 7.02 |
|                 | 12H | 3.44             | 4.11 | 3.87 | 4.49 | 4.92 | 5.67           | 6.34 | 6.10 | 6.72 | 7.15 |
| 4H              | 2H  | 2.66             | 3.48 | 3.07 | 3.84 | 4.22 | 3.92           | 4.74 | 4.32 | 5.09 | 5.48 |
|                 | 3H  | 3.44             | 4.11 | 3.85 | 4.51 | 4.92 | 4.91           | 5.58 | 5.33 | 5.98 | 6.39 |
|                 | 4H  | 3.68             | 4.28 | 4.12 | 4.70 | 5.15 | 5.41           | 6.01 | 5.85 | 6.43 | 6.88 |
|                 | 6H  | 3.80             | 4.31 | 4.27 | 4.76 | 5.23 | 5.80           | 6.31 | 6.27 | 6.76 | 7.24 |
|                 | 8H  | 3.81             | 4.28 | 4.28 | 4.73 | 5.20 | 5.98           | 6.45 | 6.45 | 6.90 | 7.37 |
|                 | 12H | 3.79             | 4.20 | 4.28 | 4.69 | 5.17 | 6.15           | 6.56 | 6.65 | 7.05 | 7.53 |
| 8H              | 4H  | 3.79             | 4.26 | 4.27 | 4.72 | 5.19 | 5.40           | 5.87 | 5.88 | 6.32 | 6.80 |
|                 | 6H  | 3.96             | 4.34 | 4.47 | 4.84 | 5.33 | 5.89           | 6.26 | 6.40 | 6.77 | 7.25 |
|                 | 8H  | 4.00             | 4.33 | 4.53 | 4.85 | 5.35 | 6.12           | 6.45 | 6.65 | 6.98 | 7.47 |
|                 | 12H | 4.50             | 4.79 | 5.02 | 5.29 | 5.87 | 6.71           | 7.00 | 7.23 | 7.50 | 8.08 |
| 12H             | 4H  | 3.79             | 4.19 | 4.28 | 4.68 | 5.16 | 5.35           | 5.76 | 5.84 | 6.25 | 6.73 |
|                 | 6H  | 4.25             | 4.31 | 4.51 | 4.78 | 5.33 | 6.12           | 6.18 | 6.39 | 6.66 | 7.21 |
|                 | 8H  | 4.04             | 4.33 | 4.56 | 4.83 | 5.41 | 6.12           | 6.40 | 6.64 | 6.90 | 7.48 |
| 对应照射距离，改变观察者位置S |     |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H        |     | 2.9/-3.1         |      |      |      |      | 4.2/-6.3       |      |      |      |      |
| S = 1.5H        |     | 4.7/-4.7         |      |      |      |      | 6.8/-7.3       |      |      |      |      |
| S = 2.0H        |     | 6.7/-4.8         |      |      |      |      | 8.8/-7.1       |      |      |      |      |
| 标准表格            |     | BK1              |      |      |      |      | BK0            |      |      |      |      |
| 更正系数            |     | -6.2             |      |      |      |      | -1.4           |      |      |      |      |

# ROLED 投光灯

## 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                                    | 1.08 | 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     | 1.03                                    | 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                                    | 0.92 | 0.88 | 0.95 | 0.91 | 0.88 | 0.93 | 0.89 | 0.86 | 0.90 | 0.87 | 0.85 | 0.88 | 0.86 | 0.83 | 0.82 |
| 4     | 0.91                                    | 0.86 | 0.82 | 0.90 | 0.85 | 0.81 | 0.88 | 0.83 | 0.80 | 0.86 | 0.82 | 0.79 | 0.84 | 0.81 | 0.78 | 0.77 |
| 5     | 0.86                                    | 0.80 | 0.76 | 0.85 | 0.79 | 0.76 | 0.83 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.72 |
| 6     | 0.81                                    | 0.75 | 0.71 | 0.80 | 0.75 | 0.71 | 0.79 | 0.74 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.68 |
| 7     | 0.77                                    | 0.71 | 0.67 | 0.76 | 0.70 | 0.67 | 0.75 | 0.70 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.69 | 0.66 | 0.64 |
| 8     | 0.73                                    | 0.67 | 0.63 | 0.72 | 0.67 | 0.63 | 0.71 | 0.66 | 0.63 | 0.70 | 0.66 | 0.62 | 0.69 | 0.65 | 0.62 | 0.61 |
| 9     | 0.69                                    | 0.63 | 0.60 | 0.69 | 0.63 | 0.60 | 0.68 | 0.63 | 0.59 | 0.67 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.58 |
| 10    | 0.66                                    | 0.60 | 0.57 | 0.65 | 0.60 | 0.57 | 0.65 | 0.60 | 0.56 | 0.64 | 0.59 | 0.56 | 0.63 | 0.59 | 0.56 | 0.55 |



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    | 7739.75 | 7699.85 | 7584.74 | 7444.31 | 7310.02 | 7108.97 | 6821.97 | 6577.18 | 6241.84 |
| 30.0   | 7946.18 | 7926.23 | 7759.71 | 7495.73 | 7178.04 | 6795.11 | 6339.29 | 5790.62 | 5289.52 |
| 60.0   | 7894.76 | 7818.79 | 7490.36 | 6997.70 | 6441.35 | 5866.59 | 5211.25 | 4529.05 | 3897.50 |
| 90.0   | 7846.42 | 7769.68 | 7418.99 | 6899.48 | 6275.60 | 5550.43 | 4907.37 | 4265.08 | 3693.38 |
| 120.0  | 7812.66 | 7682.20 | 7328.44 | 6886.43 | 6307.06 | 5634.84 | 4968.76 | 4379.41 | 3804.65 |
| 150.0  | 7774.29 | 7693.71 | 7531.80 | 7308.49 | 6924.80 | 6513.49 | 6096.03 | 5537.39 | 5006.36 |
| 180.0  | 7739.75 | 7695.25 | 7610.07 | 7494.19 | 7349.93 | 7172.66 | 6888.73 | 6624.76 | 6336.99 |
| 210.0  | 7946.18 | 7876.35 | 7663.78 | 7362.97 | 7069.07 | 6663.89 | 6155.12 | 5634.84 | 5057.01 |
| 240.0  | 7894.76 | 7795.77 | 7446.62 | 6951.66 | 6397.61 | 5756.85 | 5108.42 | 4473.80 | 3839.18 |
| 270.0  | 7846.42 | 7652.27 | 7221.78 | 6679.24 | 6020.06 | 5287.99 | 4608.09 | 3972.71 | 3440.91 |
| 300.0  | 7812.66 | 7691.41 | 7348.39 | 6910.99 | 6316.27 | 5627.17 | 4892.02 | 4308.82 | 3709.50 |
| 330.0  | 7774.29 | 7684.50 | 7484.22 | 7200.29 | 6834.25 | 6420.63 | 5914.17 | 5373.93 | 4822.19 |
| 360.0  | 7739.75 | 7699.85 | 7584.74 | 7444.31 | 7310.02 | 7108.97 | 6821.97 | 6577.18 | 6241.84 |
| C/γ(°) | 18.0    | 20.0    | 22.0    | 24.0    | 26.0    | 28.0    | 30.0    | 32.0    | 34.0    |
| 0.0    | 5857.38 | 5397.72 | 4929.62 | 4497.59 | 4043.30 | 3588.25 | 3108.64 | 2655.89 | 2209.28 |
| 30.0   | 4735.48 | 4197.55 | 3658.08 | 3150.08 | 2724.18 | 2321.31 | 1937.62 | 1592.31 | 1311.45 |
| 60.0   | 3357.27 | 2848.50 | 2447.16 | 2084.96 | 1754.22 | 1492.01 | 1231.49 | 975.49  | 763.08  |
| 90.0   | 3213.00 | 2741.83 | 2282.94 | 1873.16 | 1536.29 | 1209.38 | 954.62  | 732.08  | 530.26  |
| 120.0  | 3280.53 | 2798.62 | 2381.17 | 2045.82 | 1728.90 | 1456.40 | 1194.88 | 946.40  | 729.39  |
| 150.0  | 4449.25 | 3926.66 | 3416.36 | 2985.86 | 2557.66 | 2177.81 | 1869.33 | 1543.96 | 1276.15 |
| 180.0  | 5953.30 | 5495.18 | 5031.68 | 4601.95 | 4134.62 | 3665.76 | 3236.02 | 2747.21 | 2291.38 |
| 210.0  | 4532.89 | 3943.55 | 3434.77 | 2967.44 | 2566.11 | 2165.54 | 1803.33 | 1501.06 | 1223.81 |
| 240.0  | 3222.98 | 2774.06 | 2361.98 | 1999.01 | 1697.44 | 1408.90 | 1155.67 | 912.41  | 701.38  |
| 270.0  | 2949.03 | 2484.00 | 2057.34 | 1675.95 | 1334.47 | 1026.21 | 818.18  | 611.75  | 448.38  |
| 300.0  | 3189.21 | 2719.58 | 2301.36 | 1962.18 | 1652.16 | 1362.09 | 1102.72 | 878.65  | 668.38  |
| 330.0  | 4268.91 | 3719.47 | 3246.77 | 2802.46 | 2393.45 | 2038.15 | 1722.76 | 1423.18 | 1161.65 |
| 360.0  | 5857.38 | 5397.72 | 4929.62 | 4497.59 | 4043.30 | 3588.25 | 3108.64 | 2655.89 | 2209.28 |
| C/γ(°) | 36.0    | 38.0    | 40.0    | 42.0    | 44.0    | 46.0    | 48.0    | 50.0    | 52.0    |
| 0.0    | 1835.56 | 1489.48 | 1170.25 | 911.64  | 672.99  | 482.68  | 356.22  | 247.86  | 168.82  |
| 30.0   | 1075.09 | 885.55  | 715.96  | 575.53  | 456.59  | 390.59  | 279.02  | 220.01  | 183.17  |
| 60.0   | 597.56  | 451.60  | 347.01  | 267.58  | 208.11  | 164.53  | 133.37  | 111.19  | 94.54   |
| 90.0   | 392.90  | 305.42  | 241.65  | 197.22  | 163.68  | 134.90  | 113.03  | 93.47   | 77.81   |
| 120.0  | 566.17  | 427.58  | 323.07  | 251.85  | 196.83  | 157.39  | 128.92  | 108.28  | 93.31   |
| 150.0  | 1052.07 | 871.74  | 712.12  | 575.53  | 465.03  | 389.06  | 284.62  | 231.98  | 190.31  |
| 180.0  | 1893.88 | 1529.00 | 1240.62 | 977.10  | 733.53  | 527.34  | 370.49  | 267.35  | 181.33  |
| 210.0  | 1006.11 | 819.10  | 667.85  | 538.62  | 432.49  | 336.03  | 260.83  | 209.26  | 173.66  |
| 240.0  | 538.70  | 415.15  | 316.47  | 248.63  | 196.29  | 155.55  | 127.15  | 107.28  | 91.32   |
| 270.0  | 341.87  | 266.20  | 217.17  | 178.95  | 148.03  | 122.78  | 103.29  | 85.72   | 72.29   |
| 300.0  | 509.54  | 392.13  | 298.66  | 231.82  | 185.24  | 148.49  | 121.94  | 103.14  | 89.48   |
| 330.0  | 966.13  | 790.01  | 645.13  | 518.29  | 408.63  | 320.38  | 249.32  | 206.58  | 163.53  |
| 360.0  | 1835.56 | 1489.48 | 1170.25 | 911.64  | 672.99  | 482.68  | 356.22  | 247.86  | 168.82  |
| C/γ(°) | 54.0    | 56.0    | 58.0    | 60.0    | 62.0    | 64.0    | 66.0    | 68.0    | 70.0    |
| 0.0    | 115.64  | 85.87   | 67.68   | 55.63   | 47.58   | 41.13   | 36.60   | 32.92   | 29.85   |
| 30.0   | 140.43  | 98.45   | 69.91   | 55.86   | 46.66   | 40.29   | 35.76   | 32.61   | 30.08   |
| 60.0   | 87.25   | 85.95   | 84.18   | 69.14   | 47.65   | 34.46   | 28.01   | 23.40   | 19.34   |
| 90.0   | 65.69   | 55.94   | 48.19   | 40.29   | 35.22   | 31.85   | 30.00   | 29.31   | 26.47   |
| 120.0  | 88.94   | 93.62   | 80.27   | 62.46   | 49.19   | 34.99   | 28.09   | 23.40   | 19.49   |
| 150.0  | 136.13  | 95.85   | 69.75   | 55.17   | 46.35   | 39.60   | 34.61   | 31.23   | 28.62   |
| 180.0  | 124.78  | 90.70   | 70.21   | 57.40   | 48.65   | 42.36   | 37.60   | 33.84   | 30.77   |
| 210.0  | 131.76  | 86.87   | 64.77   | 53.26   | 44.66   | 38.83   | 34.99   | 32.15   | 29.62   |
| 240.0  | 83.80   | 82.03   | 80.27   | 67.45   | 46.43   | 33.61   | 27.40   | 22.56   | 18.88   |
| 270.0  | 61.16   | 52.10   | 44.35   | 37.29   | 32.77   | 30.00   | 28.62   | 27.17   | 23.79   |
| 300.0  | 87.17   | 93.47   | 78.81   | 60.85   | 45.89   | 33.07   | 26.70   | 21.95   | 18.11   |
| 330.0  | 113.03  | 80.65   | 61.70   | 50.49   | 42.13   | 36.37   | 32.54   | 29.62   | 27.09   |
| 360.0  | 115.64  | 85.87   | 67.68   | 55.63   | 47.58   | 41.13   | 36.60   | 32.92   | 29.85   |

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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    | 26.93 | 24.17 | 21.41 | 18.57 | 15.42 | 12.05 | 8.44 | 4.53 | 1.07 |
| 30.0   | 26.70 | 22.79 | 19.11 | 15.50 | 12.20 | 9.29  | 5.99 | 1.92 | 0.69 |
| 60.0   | 16.35 | 13.51 | 10.74 | 8.36  | 6.98  | 4.14  | 1.53 | 1.23 | 0.69 |
| 90.0   | 21.41 | 16.35 | 12.43 | 10.21 | 8.21  | 3.84  | 2.07 | 1.69 | 0.92 |
| 120.0  | 16.50 | 13.66 | 10.82 | 8.36  | 6.91  | 4.30  | 1.61 | 1.23 | 0.77 |
| 150.0  | 25.63 | 21.87 | 18.26 | 14.35 | 11.43 | 8.67  | 5.68 | 2.30 | 0.77 |
| 180.0  | 27.63 | 24.63 | 21.72 | 18.95 | 15.96 | 12.66 | 9.06 | 5.37 | 2.00 |
| 210.0  | 26.47 | 22.48 | 18.88 | 15.19 | 11.66 | 8.75  | 5.99 | 1.23 | 0.46 |
| 240.0  | 15.88 | 12.82 | 10.13 | 8.06  | 6.75  | 3.61  | 1.46 | 1.07 | 0.69 |
| 270.0  | 18.65 | 13.51 | 10.44 | 8.59  | 5.29  | 2.38  | 1.84 | 1.07 | 0.69 |
| 300.0  | 15.27 | 12.28 | 9.59  | 7.60  | 6.29  | 3.38  | 1.30 | 1.00 | 0.61 |
| 330.0  | 23.94 | 20.03 | 16.42 | 13.05 | 9.90  | 6.83  | 4.68 | 0.92 | 0.46 |
| 360.0  | 26.93 | 24.17 | 21.41 | 18.57 | 15.42 | 12.05 | 8.44 | 4.53 | 1.07 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0    | 0.08 |
| 30.0   | 0.08 |
| 60.0   | 0.23 |
| 90.0   | 0.23 |
| 120.0  | 0.23 |
| 150.0  | 0.23 |
| 180.0  | 0.15 |
| 210.0  | 0.08 |
| 240.0  | 0.00 |
| 270.0  | 0.08 |
| 300.0  | 0.00 |
| 330.0  | 0.00 |
| 360.0  | 0.08 |