

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F3443A-18-UN-RC-Y (15-XL-18RGBWN-AJ, L1000, A, CT)

报告编号:

电压(V): 220.0000

测试编号: 20210409005

电流(A): 0.4410

光源规格型号: XL

功率(W): 93.5000

每个光源光通量(lm)

功率因数: 0.9630

光源数量: 18

镇流器型号:

发光面长度(mm): 980

发光面宽度(mm): 60

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): 4274.36

灯具效能(lm/w): 45.72

中心光强(cd): 36335.250

最大光强(cd): 37071.940

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=15.6

[C90/270]Total=15.2

光束扩散角(10%Imax): [C0/180]Total=30.4

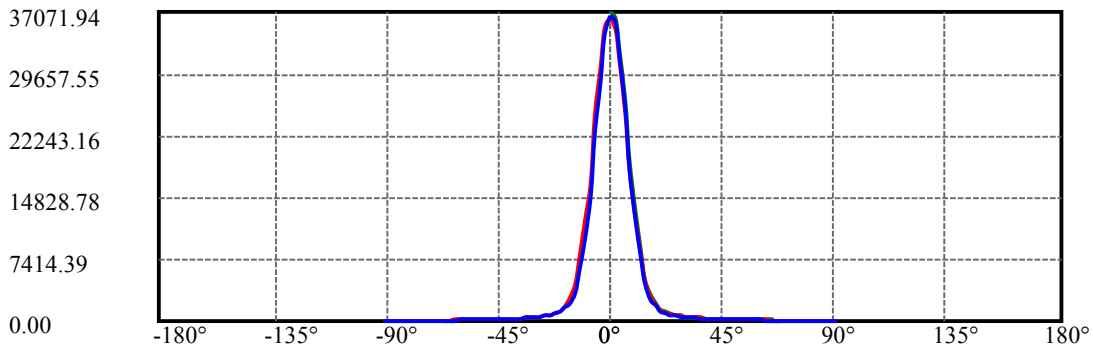
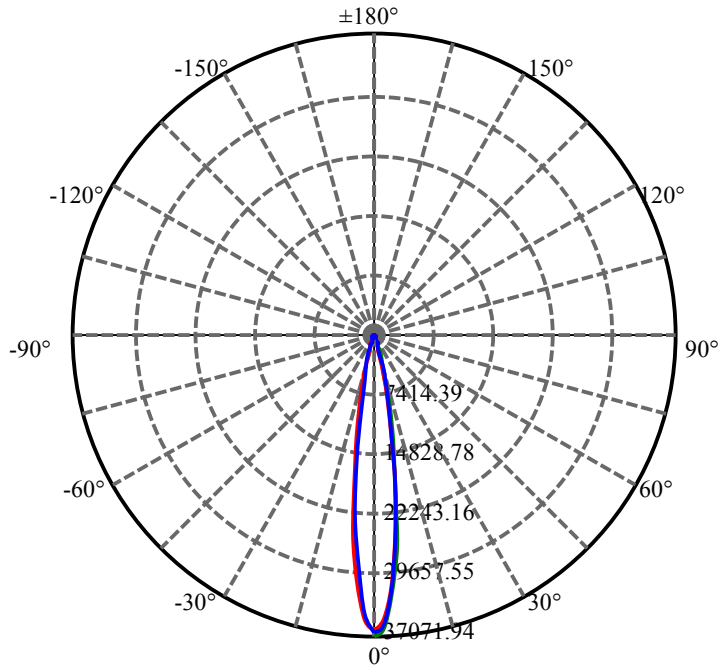
[C90/270]Total=28.8

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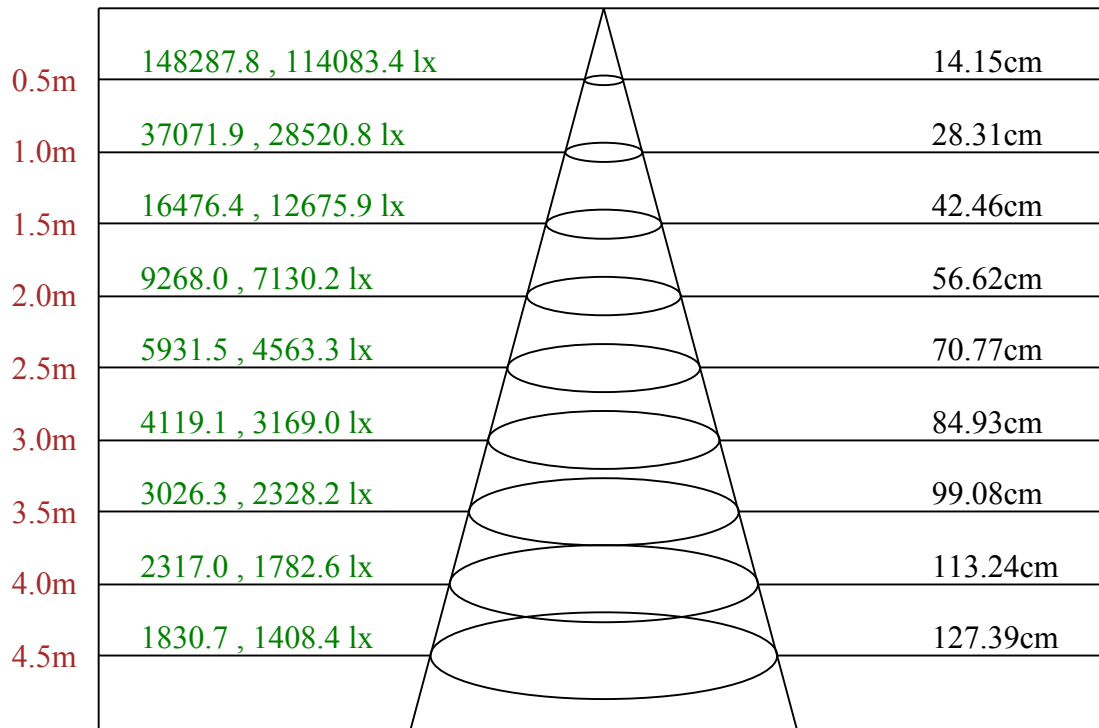
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/9  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

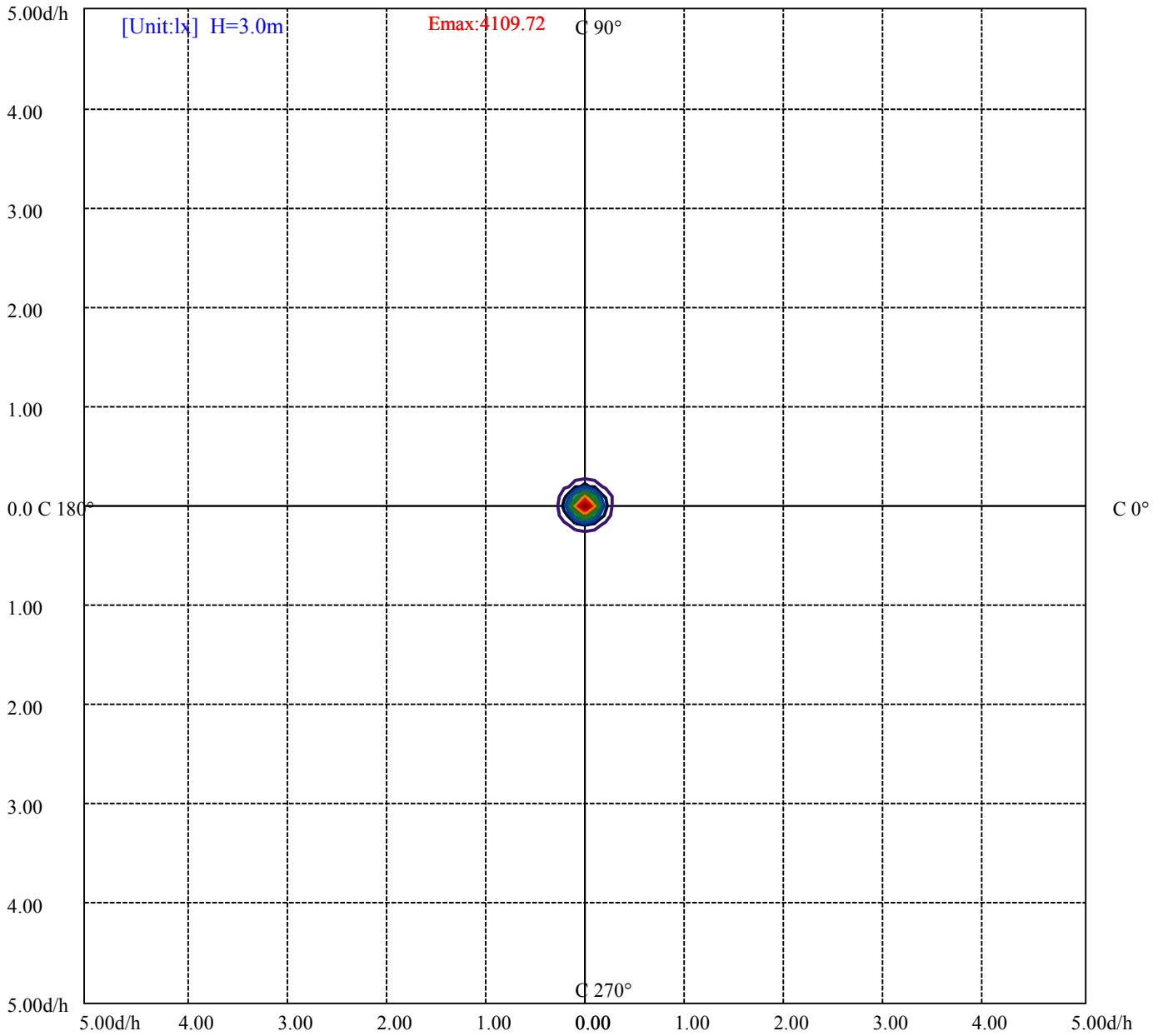


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角16.11

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 410.9711
- (20%Emax) 821.9422
- (30%Emax) 1232.911
- (40%Emax) 1643.889
- (50%Emax) 2054.855
- (60%Emax) 2465.822
- (70%Emax) 2876.8
- (80%Emax) 3287.767
- (90%Emax) 3698.744

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/9  
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

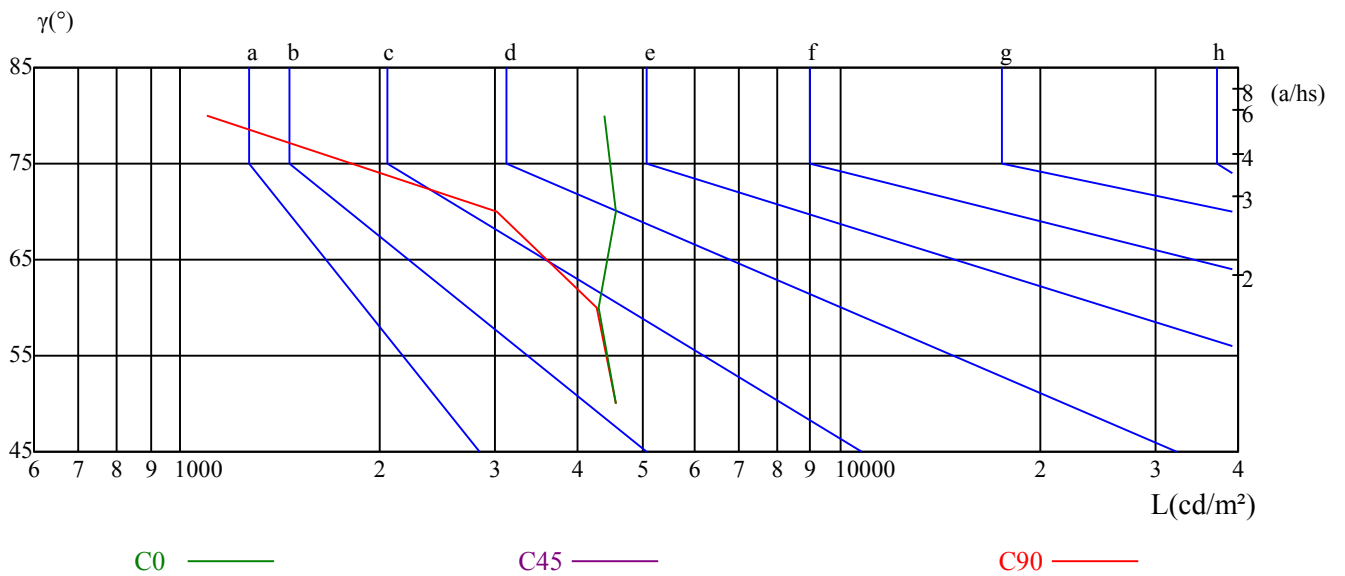
| $\gamma$ | 45 | 50   | 55 | 60   | 65 | 70   | 75 | 80   | 85 |
|----------|----|------|----|------|----|------|----|------|----|
| C0       | 0  | 4554 | 0  | 4288 | 0  | 4560 | 0  | 4382 | 0  |
| C45      | 0  | 0    | 0  | 0    | 0  | 0    | 0  | 0    | 0  |
| C90      | 0  | 4556 | 0  | 4260 | 0  | 3018 | 0  | 1097 | 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          |

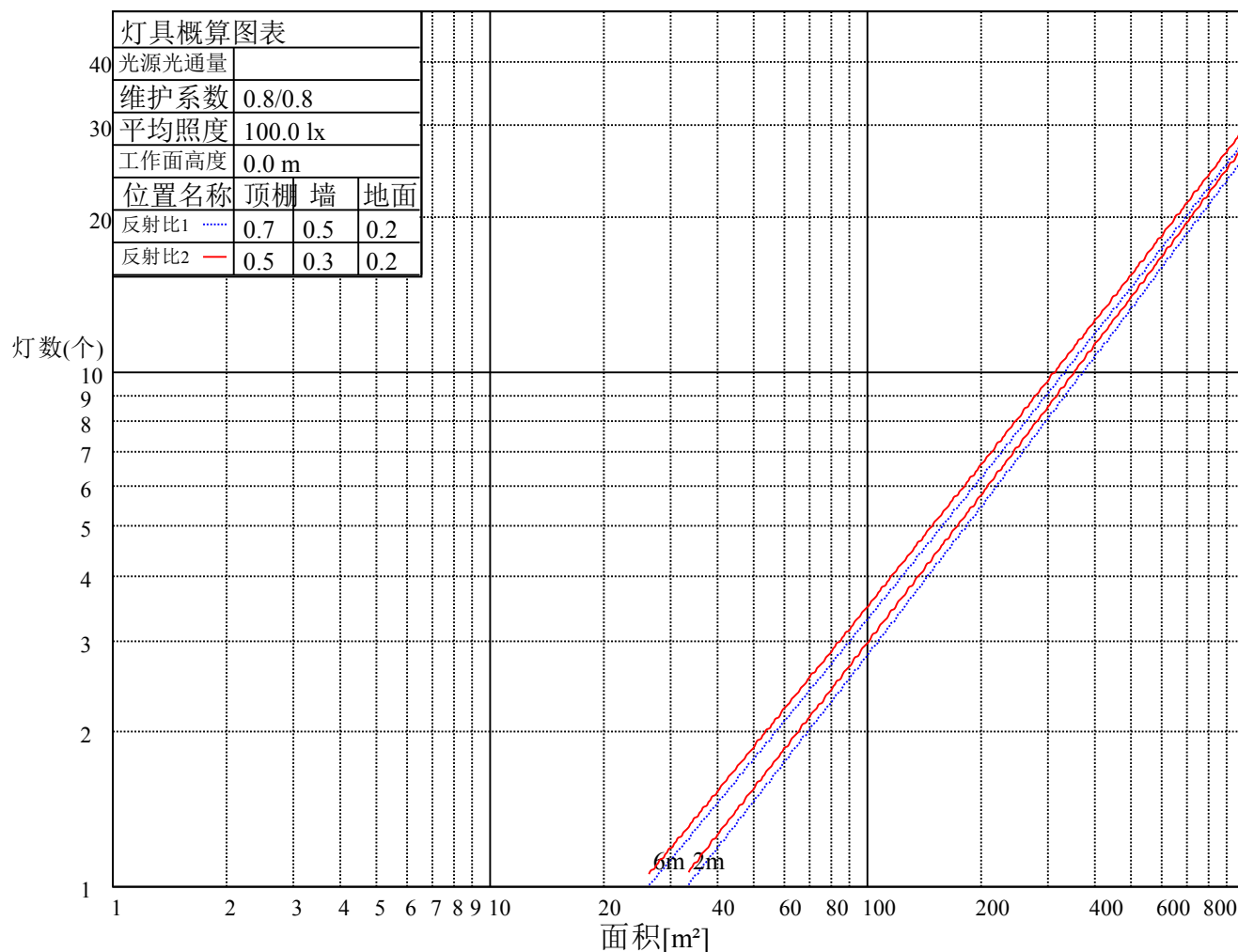
亮度限制曲线



| 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               | 7.26  | 8.29  | 7.62  | 8.60  | 8.92           | 7.32  | 8.35  | 7.68  | 8.66  | 8.98  |
|                 | 3H               | 8.52  | 9.44  | 8.91  | 9.77  | 10.14          | 9.55  | 10.46 | 9.93  | 10.79 | 11.16 |
|                 | 4H               | 8.78  | 9.62  | 9.18  | 9.98  | 10.37          | 10.43 | 11.28 | 10.84 | 11.63 | 12.02 |
|                 | 6H               | 8.82  | 9.60  | 9.24  | 9.97  | 10.37          | 11.03 | 11.81 | 11.45 | 12.18 | 12.58 |
|                 | 8H               | 8.80  | 9.53  | 9.24  | 9.92  | 10.33          | 11.22 | 11.95 | 11.66 | 12.35 | 12.76 |
|                 | 12H              | 8.79  | 9.49  | 9.22  | 9.87  | 10.30          | 11.47 | 12.16 | 11.90 | 12.55 | 12.98 |
| 4H              | 2H               | 7.90  | 8.75  | 8.31  | 9.10  | 9.49           | 7.95  | 8.80  | 8.35  | 9.15  | 9.54  |
|                 | 3H               | 9.28  | 9.97  | 9.69  | 10.38 | 10.79          | 10.45 | 11.15 | 10.87 | 11.56 | 11.96 |
|                 | 4H               | 9.58  | 10.20 | 10.01 | 10.62 | 11.07          | 11.48 | 12.10 | 11.91 | 12.52 | 12.97 |
|                 | 6H               | 9.64  | 10.17 | 10.11 | 10.62 | 11.09          | 12.04 | 12.57 | 12.51 | 13.02 | 13.50 |
|                 | 8H               | 9.62  | 10.11 | 10.09 | 10.56 | 11.04          | 12.25 | 12.75 | 12.73 | 13.20 | 13.67 |
|                 | 12H              | 9.60  | 10.03 | 10.10 | 10.52 | 11.00          | 12.48 | 12.91 | 12.97 | 13.40 | 13.87 |
| 8H              | 4H               | 9.91  | 10.40 | 10.38 | 10.85 | 11.33          | 11.59 | 12.08 | 12.06 | 12.53 | 13.01 |
|                 | 6H               | 9.99  | 10.38 | 10.50 | 10.89 | 11.37          | 12.24 | 12.63 | 12.75 | 13.13 | 13.62 |
|                 | 8H               | 9.98  | 10.33 | 10.52 | 10.85 | 11.35          | 12.50 | 12.84 | 13.03 | 13.37 | 13.86 |
|                 | 12H              | 10.72 | 11.02 | 11.24 | 11.52 | 12.10          | 13.18 | 13.48 | 13.70 | 13.98 | 14.56 |
| 12H             | 4H               | 9.92  | 10.34 | 10.41 | 10.83 | 11.31          | 11.53 | 11.96 | 12.03 | 12.45 | 12.93 |
|                 | 6H               | 10.32 | 10.36 | 10.55 | 10.84 | 11.38          | 12.50 | 12.55 | 12.73 | 13.02 | 13.57 |
|                 | 8H               | 10.03 | 10.33 | 10.56 | 10.83 | 11.41          | 12.48 | 12.78 | 13.00 | 13.28 | 13.86 |
| 对应照射距离，改变观察者位置S |                  |       |       |       |       |                |       |       |       |       |       |
| S = 1.0H        | 0.3/-0.6         |       |       |       |       | 0.3/-0.7       |       |       |       |       |       |
| S = 1.5H        | 1.1/-0.7         |       |       |       |       | 0.8/-0.7       |       |       |       |       |       |
| S = 2.0H        | 1.9/-1.4         |       |       |       |       | 0.8/-0.7       |       |       |       |       |       |
| 标准表格            | BK3              |       |       |       |       | BK3            |       |       |       |       |       |
| 更正系数            | -2.8             |       |       |       |       | -1.5           |       |       |       |       |       |

# 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     | 1.12                                    | 1.10 | 1.08 | 1.10 | 1.08 | 1.06 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | 0.99 | 0.98 | 0.97 | 0.95 |
| 2     | 1.06                                    | 1.03 | 1.00 | 1.04 | 1.01 | 0.99 | 1.01 | 0.99 | 0.97 | 0.98 | 0.96 | 0.95 | 0.96 | 0.94 | 0.93 | 0.91 |
| 3     | 1.01                                    | 0.97 | 0.94 | 1.00 | 0.96 | 0.93 | 0.97 | 0.94 | 0.92 | 0.95 | 0.92 | 0.90 | 0.93 | 0.91 | 0.89 | 0.88 |
| 4     | 0.97                                    | 0.93 | 0.89 | 0.96 | 0.92 | 0.89 | 0.94 | 0.90 | 0.88 | 0.92 | 0.89 | 0.87 | 0.90 | 0.88 | 0.86 | 0.84 |
| 5     | 0.93                                    | 0.89 | 0.86 | 0.92 | 0.88 | 0.85 | 0.91 | 0.87 | 0.84 | 0.89 | 0.86 | 0.84 | 0.88 | 0.85 | 0.83 | 0.82 |
| 6     | 0.90                                    | 0.86 | 0.83 | 0.89 | 0.85 | 0.82 | 0.88 | 0.84 | 0.82 | 0.87 | 0.84 | 0.81 | 0.86 | 0.83 | 0.81 | 0.80 |
| 7     | 0.87                                    | 0.83 | 0.80 | 0.87 | 0.83 | 0.80 | 0.86 | 0.82 | 0.79 | 0.85 | 0.81 | 0.79 | 0.84 | 0.81 | 0.79 | 0.78 |
| 8     | 0.85                                    | 0.81 | 0.78 | 0.85 | 0.80 | 0.78 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.77 | 0.82 | 0.79 | 0.77 | 0.76 |
| 9     | 0.83                                    | 0.79 | 0.76 | 0.82 | 0.79 | 0.76 | 0.82 | 0.78 | 0.76 | 0.81 | 0.78 | 0.75 | 0.80 | 0.77 | 0.75 | 0.74 |
| 10    | 0.81                                    | 0.77 | 0.74 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.79 | 0.76 | 0.74 | 0.79 | 0.76 | 0.74 | 0.73 |



# 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    | 36335.25 | 34877.24 | 30909.91 | 24747.88 | 18263.55 | 12692.40 | 8111.16 | 5018.64 | 2975.88 |
| 30.0   | 37071.93 | 36097.37 | 32130.03 | 26152.17 | 19460.66 | 13513.49 | 8579.26 | 5133.75 | 3123.22 |
| 60.0   | 36903.11 | 35422.08 | 30863.86 | 24924.37 | 18133.09 | 12288.76 | 7499.57 | 4248.96 | 2540.78 |
| 90.0   | 36626.86 | 35736.70 | 31531.48 | 25308.06 | 18493.76 | 12538.92 | 7620.04 | 4496.82 | 2624.43 |
| 120.0  | 36557.79 | 35145.82 | 30695.04 | 24763.22 | 16659.73 | 11728.57 | 7237.89 | 4295.77 | 2493.97 |
| 150.0  | 36396.64 | 35399.05 | 31677.28 | 25661.05 | 18908.14 | 12792.16 | 8303.01 | 4949.58 | 2930.61 |
| 180.0  | 36335.25 | 34884.91 | 30349.72 | 24556.03 | 16751.82 | 12128.38 | 7695.25 | 4565.89 | 2767.93 |
| 210.0  | 37071.93 | 34938.63 | 30165.55 | 23734.94 | 15042.87 | 11372.51 | 6985.42 | 4127.72 | 2472.49 |
| 240.0  | 36903.11 | 34915.61 | 30081.14 | 23504.73 | 17350.37 | 11357.16 | 6676.17 | 3882.92 | 2415.70 |
| 270.0  | 36626.86 | 34186.60 | 28646.15 | 22384.36 | 15177.93 | 10011.19 | 5924.14 | 3524.56 | 2149.42 |
| 300.0  | 36557.79 | 34769.81 | 29943.01 | 23312.88 | 16790.19 | 11311.12 | 6921.73 | 4212.89 | 2493.20 |
| 330.0  | 36396.64 | 34470.53 | 29666.76 | 23274.51 | 15057.45 | 11331.07 | 7175.73 | 4293.47 | 2590.66 |
| 360.0  | 36335.25 | 34877.24 | 30909.91 | 24747.88 | 18263.55 | 12692.40 | 8111.16 | 5018.64 | 2975.88 |

| C/γ(°) | 18.0    | 20.0    | 22.0    | 24.0   | 26.0   | 28.0   | 30.0   | 32.0   | 34.0   |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0.0    | 1902.33 | 1336.77 | 1033.66 | 832.60 | 703.68 | 606.99 | 519.51 | 454.29 | 396.73 |
| 30.0   | 1989.04 | 1420.41 | 1065.89 | 867.13 | 721.33 | 612.37 | 534.86 | 471.94 | 418.22 |
| 60.0   | 1517.18 | 1272.92 | 995.67  | 821.55 | 687.34 | 591.26 | 511.92 | 458.66 | 405.40 |
| 90.0   | 1743.48 | 1261.57 | 981.47  | 798.84 | 668.38 | 571.70 | 494.19 | 436.64 | 388.29 |
| 120.0  | 1504.90 | 1189.51 | 926.22  | 755.56 | 638.30 | 547.68 | 479.15 | 423.75 | 373.87 |
| 150.0  | 1797.96 | 1250.06 | 953.85  | 768.91 | 646.13 | 550.98 | 483.45 | 425.89 | 388.29 |
| 180.0  | 1639.12 | 1238.85 | 954.46  | 785.26 | 658.87 | 568.93 | 493.35 | 430.50 | 375.71 |
| 210.0  | 1520.33 | 1227.65 | 965.97  | 792.55 | 673.83 | 573.00 | 504.78 | 446.84 | 392.21 |
| 240.0  | 1615.33 | 1205.55 | 961.52  | 788.86 | 667.62 | 574.76 | 504.93 | 445.08 | 395.20 |
| 270.0  | 1520.56 | 1145.16 | 912.03  | 765.15 | 649.12 | 555.20 | 484.06 | 430.42 | 376.78 |
| 300.0  | 1628.37 | 1200.94 | 952.31  | 777.35 | 656.87 | 567.86 | 495.72 | 438.17 | 387.52 |
| 330.0  | 1520.94 | 1241.31 | 960.68  | 785.56 | 660.02 | 567.63 | 494.96 | 434.95 | 384.46 |
| 360.0  | 1902.33 | 1336.77 | 1033.66 | 832.60 | 703.68 | 606.99 | 519.51 | 454.29 | 396.73 |

| C/γ(°) | 36.0   | 38.0   | 40.0   | 42.0   | 44.0   | 46.0   | 48.0   | 50.0   | 52.0   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 348.39 | 304.88 | 269.12 | 242.41 | 220.24 | 201.21 | 185.17 | 172.12 | 159.77 |
| 30.0   | 387.52 | 327.98 | 288.00 | 256.38 | 229.83 | 208.34 | 192.07 | 177.42 | 165.22 |
| 60.0   | 354.60 | 313.70 | 277.33 | 247.71 | 222.16 | 203.58 | 187.01 | 173.27 | 161.38 |
| 90.0   | 340.56 | 298.74 | 266.43 | 237.89 | 215.94 | 199.21 | 184.40 | 172.20 | 160.77 |
| 120.0  | 331.89 | 291.07 | 260.60 | 234.89 | 214.40 | 196.29 | 181.25 | 169.28 | 158.16 |
| 150.0  | 338.03 | 299.51 | 266.20 | 237.58 | 216.55 | 198.14 | 183.63 | 170.51 | 159.23 |
| 180.0  | 331.35 | 292.52 | 261.98 | 238.50 | 218.09 | 200.67 | 185.70 | 172.74 | 160.38 |
| 210.0  | 348.24 | 307.87 | 273.42 | 244.64 | 221.39 | 201.74 | 186.86 | 173.50 | 161.99 |
| 240.0  | 347.62 | 306.49 | 269.89 | 242.34 | 219.39 | 200.05 | 185.40 | 172.58 | 161.23 |
| 270.0  | 329.74 | 291.60 | 256.38 | 229.29 | 208.80 | 192.61 | 178.72 | 167.75 | 157.39 |
| 300.0  | 338.64 | 299.12 | 265.74 | 236.81 | 214.10 | 195.76 | 180.41 | 168.13 | 157.31 |
| 330.0  | 338.72 | 300.35 | 264.13 | 237.96 | 214.56 | 194.61 | 179.72 | 166.60 | 156.01 |
| 360.0  | 348.39 | 304.88 | 269.12 | 242.41 | 220.24 | 201.21 | 185.17 | 172.12 | 159.77 |

| C/γ(°) | 54.0   | 56.0   | 58.0   | 60.0   | 62.0   | 64.0   | 66.0   | 68.0   | 70.0   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 149.87 | 141.04 | 133.14 | 126.08 | 119.71 | 113.03 | 106.28 | 99.53  | 91.70  |
| 30.0   | 154.86 | 146.57 | 139.05 | 132.45 | 125.85 | 118.87 | 112.27 | 106.05 | 100.37 |
| 60.0   | 151.86 | 143.81 | 135.90 | 128.23 | 120.32 | 110.66 | 99.07  | 82.42  | 66.45  |
| 90.0   | 151.40 | 142.66 | 134.06 | 125.24 | 114.80 | 99.91  | 83.87  | 71.37  | 60.70  |
| 120.0  | 148.79 | 140.58 | 133.60 | 126.23 | 118.10 | 108.51 | 96.92  | 80.27  | 63.85  |
| 150.0  | 149.87 | 142.19 | 135.06 | 128.00 | 121.86 | 115.80 | 109.96 | 103.75 | 97.15  |
| 180.0  | 150.18 | 141.66 | 133.68 | 126.54 | 119.71 | 113.26 | 106.36 | 99.61  | 92.16  |
| 210.0  | 152.94 | 144.80 | 137.28 | 130.76 | 124.62 | 118.18 | 112.42 | 106.67 | 100.37 |
| 240.0  | 152.09 | 144.80 | 137.74 | 130.53 | 123.39 | 113.96 | 102.21 | 83.26  | 67.30  |
| 270.0  | 148.26 | 140.20 | 131.30 | 122.32 | 108.12 | 92.55  | 78.96  | 67.45  | 55.56  |
| 300.0  | 149.02 | 141.27 | 134.14 | 127.46 | 120.40 | 111.42 | 98.91  | 81.73  | 65.46  |
| 330.0  | 146.88 | 139.20 | 131.99 | 125.93 | 119.71 | 113.65 | 107.97 | 101.83 | 95.46  |
| 360.0  | 149.87 | 141.04 | 133.14 | 126.08 | 119.71 | 113.03 | 106.28 | 99.53  | 91.70  |

# 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    | 82.88 | 73.51 | 64.38 | 54.25 | 44.74 | 34.61 | 25.02 | 15.96 | 6.60 |
| 30.0   | 92.16 | 82.72 | 70.98 | 57.02 | 33.92 | 16.19 | 6.98  | 3.53  | 1.92 |
| 60.0   | 53.79 | 41.75 | 30.77 | 20.72 | 11.74 | 8.06  | 5.99  | 3.53  | 2.38 |
| 90.0   | 48.65 | 38.06 | 27.47 | 18.03 | 11.20 | 10.05 | 6.75  | 4.60  | 3.22 |
| 120.0  | 51.87 | 40.59 | 30.70 | 20.57 | 11.89 | 8.06  | 6.45  | 3.76  | 2.84 |
| 150.0  | 88.71 | 78.81 | 66.92 | 52.87 | 32.46 | 15.88 | 6.68  | 3.45  | 1.84 |
| 180.0  | 83.11 | 73.51 | 64.15 | 53.56 | 43.20 | 34.07 | 24.71 | 15.96 | 7.06 |
| 210.0  | 92.62 | 81.88 | 69.83 | 51.95 | 29.24 | 14.04 | 5.37  | 3.38  | 1.92 |
| 240.0  | 54.33 | 41.90 | 30.39 | 19.57 | 11.51 | 8.59  | 6.14  | 3.99  | 2.15 |
| 270.0  | 44.28 | 33.38 | 22.64 | 14.50 | 11.05 | 9.21  | 5.06  | 4.45  | 1.84 |
| 300.0  | 53.41 | 40.90 | 29.62 | 19.11 | 11.28 | 8.75  | 6.14  | 4.14  | 2.15 |
| 330.0  | 88.48 | 78.89 | 66.61 | 48.34 | 26.47 | 12.89 | 5.06  | 3.38  | 1.84 |
| 360.0  | 82.88 | 73.51 | 64.38 | 54.25 | 44.74 | 34.61 | 25.02 | 15.96 | 6.60 |
| C/γ(°) | 90.0  |       |       |       |       |       |       |       |      |
| 0.0    | 0.23  |       |       |       |       |       |       |       |      |
| 30.0   | 0.46  |       |       |       |       |       |       |       |      |
| 60.0   | 0.38  |       |       |       |       |       |       |       |      |
| 90.0   | 0.46  |       |       |       |       |       |       |       |      |
| 120.0  | 0.54  |       |       |       |       |       |       |       |      |
| 150.0  | 0.46  |       |       |       |       |       |       |       |      |
| 180.0  | 0.23  |       |       |       |       |       |       |       |      |
| 210.0  | 0.31  |       |       |       |       |       |       |       |      |
| 240.0  | 0.23  |       |       |       |       |       |       |       |      |
| 270.0  | 0.31  |       |       |       |       |       |       |       |      |
| 300.0  | 0.31  |       |       |       |       |       |       |       |      |
| 330.0  | 0.31  |       |       |       |       |       |       |       |      |
| 360.0  | 0.23  |       |       |       |       |       |       |       |      |