

浙大三色

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ROLED

灯具名称: 水下灯

灯具描述: U3153A-27-12DC(60-OL-27WN-AA, P1)

报告编号:

电压(V): 12.1000

测试编号: 20210326005

电流(A): 2.3000

光源规格型号: OL

功率(W): 28.0000

每个光源光通量(lm)

功率因数: 1.0120

光源数量: 27

镇流器型号:

发光面长度(mm): 977

发光面宽度(mm): 33

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 2591.09

灯具效能(lm/w): 92.54

中心光强(cd): 2529.271

最大光强(cd): 2672.003

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=53.5

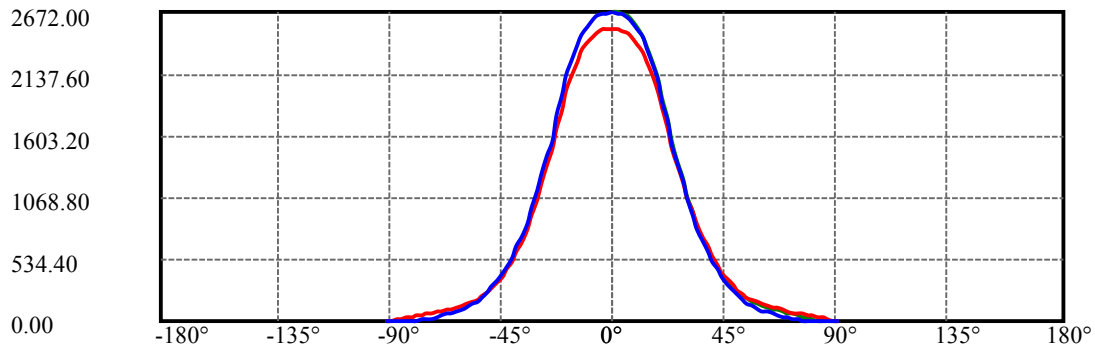
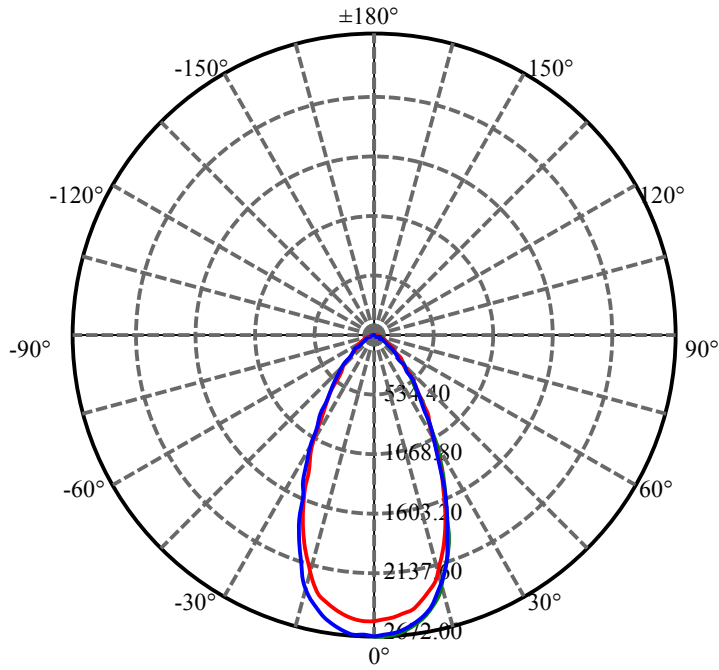
光束扩散角(10%Imax): [C0/180]Total=100.8

[C90/270]Total=97.2

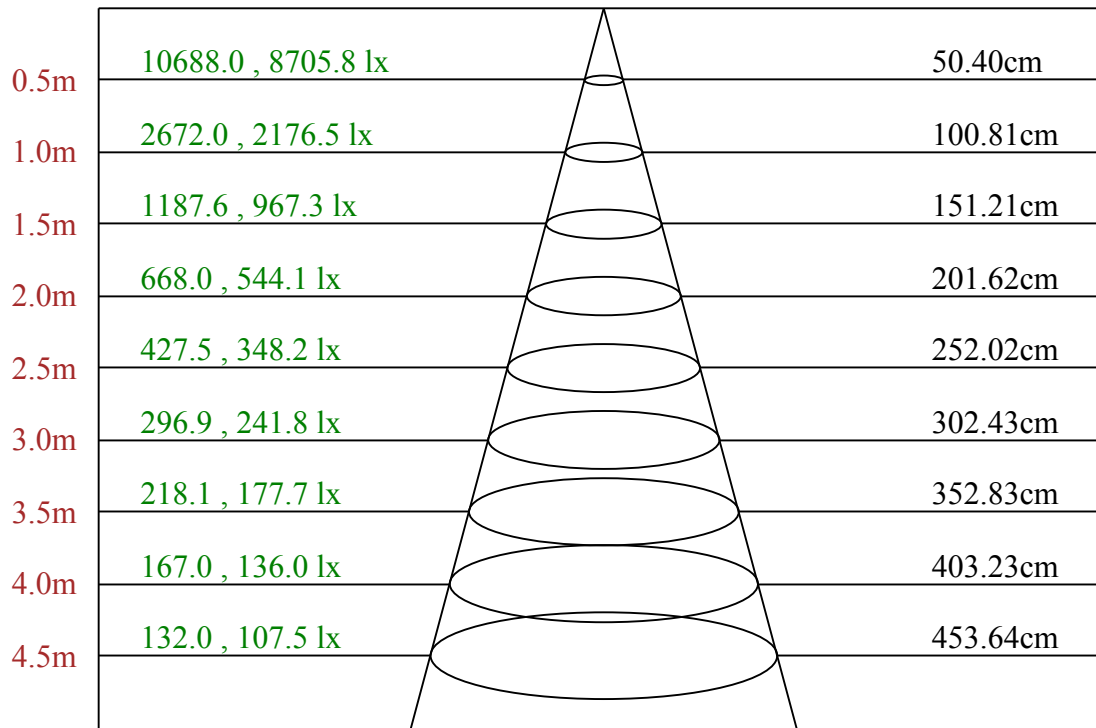
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/26
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

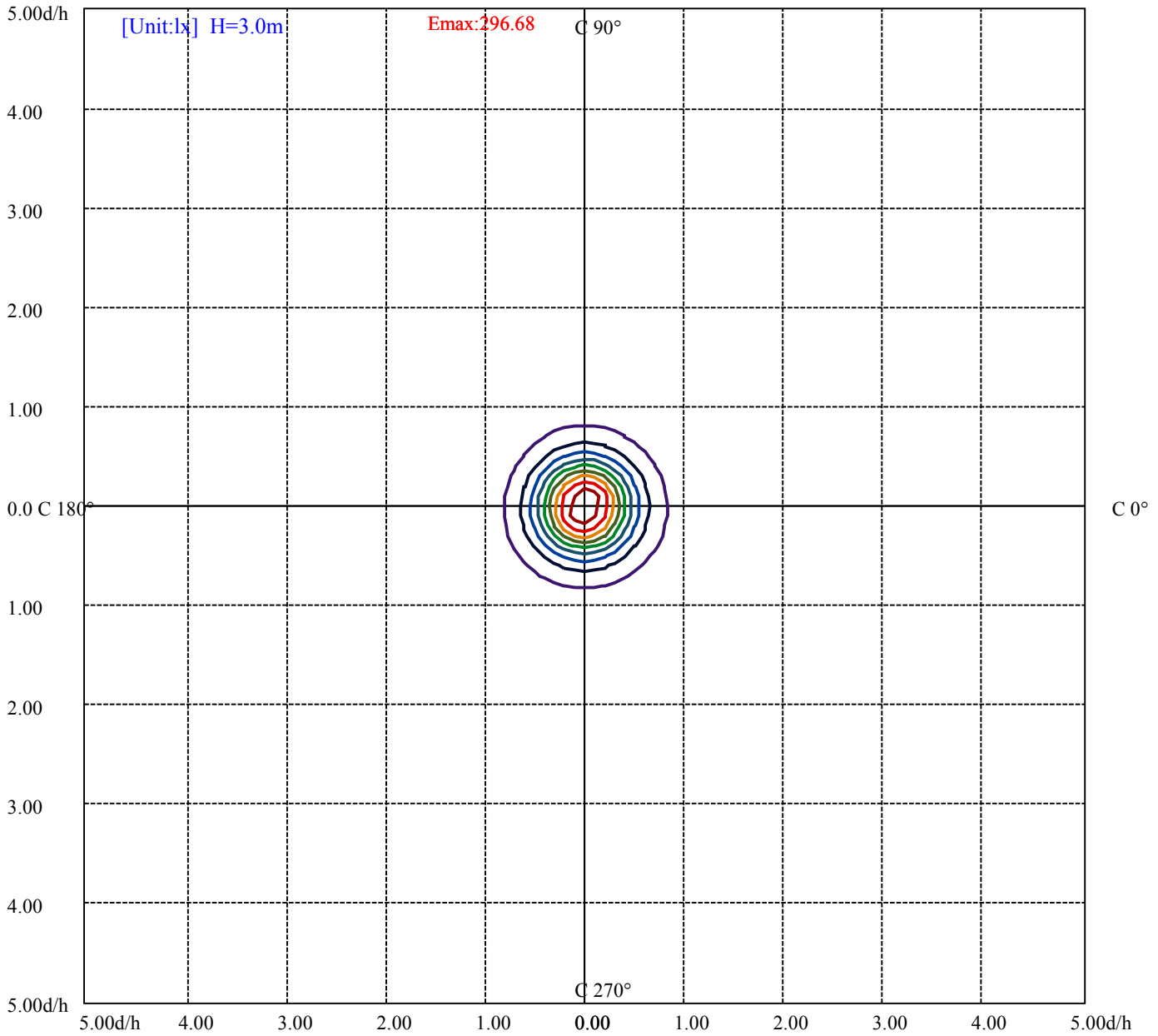


C30(Max): ————
C0/C180: ————
C90/C270: ————



Max , Ave C30面光束角53.50

ROLED 水下灯
平面等照度曲线



- (10%Emax) 29.66755
- (20%Emax) 59.33522
- (30%Emax) 89.00278
- (40%Emax) 118.67
- (50%Emax) 148.3378
- (60%Emax) 178.0056
- (70%Emax) 207.6733
- (80%Emax) 237.3411
- (90%Emax) 267.0089

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ROLED 水下灯

灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

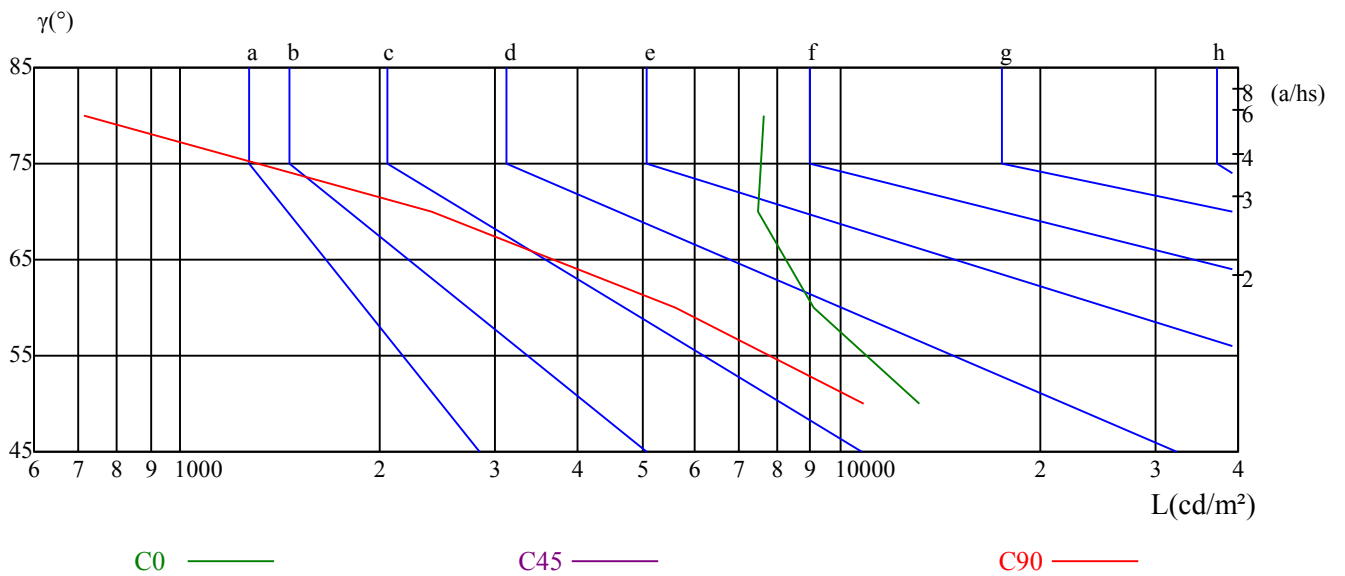
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|-------|----|------|----|------|----|------|----|
| C0 | 0 | 13197 | 0 | 9078 | 0 | 7488 | 0 | 7635 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 10853 | 0 | 5612 | 0 | 2394 | 0 | 713 | 0 |

| 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 | 12.29 | 13.49 | 12.65 | 13.80 | 14.12 | 13.72 | 14.92 | 14.09 | 15.24 | 15.55 |
| | 3H | 12.83 | 13.90 | 13.22 | 14.23 | 14.59 | 15.14 | 16.20 | 15.52 | 16.53 | 16.90 |
| | 4H | 12.84 | 13.82 | 13.24 | 14.17 | 14.56 | 15.73 | 16.71 | 16.13 | 17.07 | 17.45 |
| | 6H | 12.78 | 13.68 | 13.19 | 14.05 | 14.45 | 16.20 | 17.10 | 16.62 | 17.48 | 17.87 |
| | 8H | 12.73 | 13.59 | 13.17 | 13.98 | 14.39 | 16.37 | 17.22 | 16.80 | 17.62 | 18.02 |
| | 12H | 12.70 | 13.51 | 13.13 | 13.90 | 14.33 | 16.60 | 17.41 | 17.03 | 17.80 | 18.23 |
| 4H | 2H | 12.75 | 13.74 | 13.16 | 14.09 | 14.48 | 13.96 | 14.95 | 14.37 | 15.30 | 15.68 |
| | 3H | 13.42 | 14.22 | 13.83 | 14.63 | 15.03 | 15.61 | 16.41 | 16.02 | 16.82 | 17.22 |
| | 4H | 13.43 | 14.15 | 13.86 | 14.57 | 15.01 | 16.29 | 17.01 | 16.72 | 17.43 | 17.87 |
| | 6H | 13.38 | 13.99 | 13.84 | 14.44 | 14.91 | 16.76 | 17.38 | 17.23 | 17.83 | 18.30 |
| | 8H | 13.33 | 13.90 | 13.80 | 14.35 | 14.82 | 16.96 | 17.54 | 17.44 | 17.99 | 18.46 |
| | 12H | 13.29 | 13.79 | 13.78 | 14.28 | 14.76 | 17.21 | 17.71 | 17.70 | 18.20 | 18.67 |
| 8H | 4H | 13.60 | 14.17 | 14.07 | 14.62 | 15.09 | 16.25 | 16.83 | 16.72 | 17.28 | 17.75 |
| | 6H | 13.54 | 14.01 | 14.05 | 14.51 | 14.99 | 16.75 | 17.22 | 17.26 | 17.72 | 18.20 |
| | 8H | 13.50 | 13.91 | 14.02 | 14.43 | 14.92 | 16.99 | 17.40 | 17.51 | 17.92 | 18.42 |
| | 12H | 14.16 | 14.52 | 14.68 | 15.02 | 15.59 | 17.77 | 18.14 | 18.29 | 18.63 | 19.21 |
| 12H | 4H | 13.58 | 14.09 | 14.07 | 14.57 | 15.05 | 16.20 | 16.71 | 16.69 | 17.19 | 17.67 |
| | 6H | 14.00 | 13.95 | 14.06 | 14.42 | 14.96 | 17.17 | 17.12 | 17.23 | 17.59 | 18.13 |
| | 8H | 13.50 | 13.87 | 14.02 | 14.36 | 14.94 | 16.95 | 17.32 | 17.47 | 17.81 | 18.39 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 1.4/-2.1 | | | | | 0.8/-1.1 | | | | | |
| S = 1.5H | 3.0/-3.5 | | | | | 1.7/-1.5 | | | | | |
| S = 2.0H | 5.3/-4.7 | | | | | 3.5/-1.7 | | | | | |
| 标准表格 | BK1 | | | | | BK2 | | | | | |
| 更正系数 | 0.3 | | | | | 2.7 | | | | | |

ROLED 水下灯

光强数据表(cd)

附页 第7页 共8页

| C/γ(°) | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0 | 2529.27 | 2523.13 | 2508.55 | 2484.76 | 2449.46 | 2395.75 | 2326.68 | 2236.90 | 2121.03 |
| 30.0 | 2672.00 | 2667.40 | 2656.66 | 2633.63 | 2598.34 | 2541.55 | 2464.04 | 2367.35 | 2237.67 |
| 60.0 | 2668.17 | 2660.49 | 2649.75 | 2625.96 | 2586.06 | 2523.13 | 2437.95 | 2332.82 | 2195.46 |
| 90.0 | 2665.10 | 2656.66 | 2647.45 | 2625.96 | 2586.06 | 2526.20 | 2448.70 | 2352.01 | 2223.09 |
| 120.0 | 2559.97 | 2553.06 | 2543.85 | 2519.30 | 2478.62 | 2416.47 | 2342.80 | 2248.41 | 2121.03 |
| 150.0 | 2556.90 | 2553.83 | 2545.39 | 2523.13 | 2485.53 | 2428.75 | 2356.61 | 2269.13 | 2147.12 |
| 180.0 | 2529.27 | 2529.27 | 2518.53 | 2495.51 | 2460.21 | 2407.26 | 2341.26 | 2241.51 | 2128.70 |
| 210.0 | 2672.00 | 2669.70 | 2658.19 | 2637.47 | 2593.73 | 2536.95 | 2458.67 | 2362.75 | 2233.06 |
| 240.0 | 2668.17 | 2668.17 | 2660.49 | 2642.08 | 2607.54 | 2551.53 | 2474.02 | 2379.63 | 2263.76 |
| 270.0 | 2665.10 | 2663.56 | 2658.19 | 2638.24 | 2601.40 | 2545.39 | 2478.62 | 2384.24 | 2258.39 |
| 300.0 | 2559.97 | 2561.50 | 2557.66 | 2542.32 | 2513.16 | 2462.51 | 2398.05 | 2306.73 | 2198.53 |
| 330.0 | 2556.90 | 2556.90 | 2549.22 | 2529.27 | 2494.74 | 2439.49 | 2368.89 | 2276.04 | 2160.93 |
| 360.0 | 2529.27 | 2523.13 | 2508.55 | 2484.76 | 2449.46 | 2395.75 | 2326.68 | 2236.90 | 2121.03 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 1980.60 | 1836.33 | 1667.51 | 1493.31 | 1342.14 | 1192.50 | 1057.44 | 943.11 | 840.28 |
| 30.0 | 2090.33 | 1919.21 | 1736.57 | 1553.94 | 1379.74 | 1223.96 | 1075.86 | 944.64 | 821.09 |
| 60.0 | 2038.92 | 1862.42 | 1688.99 | 1516.49 | 1351.89 | 1191.27 | 1044.25 | 909.72 | 796.15 |
| 90.0 | 2068.85 | 1896.19 | 1718.15 | 1534.75 | 1358.26 | 1206.32 | 1057.44 | 920.08 | 798.07 |
| 120.0 | 1976.76 | 1810.24 | 1645.25 | 1483.49 | 1325.87 | 1170.33 | 1026.90 | 895.99 | 784.95 |
| 150.0 | 2012.83 | 1854.75 | 1681.32 | 1507.13 | 1343.68 | 1176.39 | 1021.38 | 879.41 | 749.73 |
| 180.0 | 1987.50 | 1824.82 | 1661.37 | 1499.07 | 1338.15 | 1181.22 | 1038.26 | 905.96 | 793.54 |
| 210.0 | 2084.19 | 1926.88 | 1746.55 | 1527.31 | 1407.75 | 1249.83 | 1102.26 | 972.72 | 844.27 |
| 240.0 | 2117.96 | 1966.78 | 1791.06 | 1606.12 | 1435.76 | 1280.75 | 1124.97 | 988.38 | 867.90 |
| 270.0 | 2120.26 | 1956.81 | 1769.57 | 1557.01 | 1430.39 | 1263.64 | 1120.37 | 978.86 | 848.72 |
| 300.0 | 2055.80 | 1913.84 | 1744.25 | 1565.45 | 1400.46 | 1249.29 | 1096.58 | 963.06 | 846.42 |
| 330.0 | 2019.73 | 1871.63 | 1698.97 | 1527.77 | 1378.36 | 1217.29 | 1073.64 | 944.49 | 834.37 |
| 360.0 | 1980.60 | 1836.33 | 1667.51 | 1493.31 | 1342.14 | 1192.50 | 1057.44 | 943.11 | 840.28 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 736.68 | 648.43 | 564.02 | 487.28 | 422.06 | 365.35 | 316.85 | 273.49 | 237.89 |
| 30.0 | 713.66 | 617.74 | 537.16 | 463.50 | 397.50 | 346.16 | 296.97 | 257.07 | 219.39 |
| 60.0 | 689.64 | 594.95 | 516.06 | 443.24 | 381.69 | 322.22 | 275.79 | 232.90 | 196.29 |
| 90.0 | 696.78 | 600.09 | 517.98 | 442.78 | 388.29 | 318.38 | 269.43 | 224.92 | 186.93 |
| 120.0 | 680.74 | 587.27 | 508.85 | 436.41 | 372.71 | 317.00 | 270.96 | 228.68 | 194.22 |
| 150.0 | 643.06 | 551.74 | 478.84 | 416.69 | 367.19 | 319.15 | 274.72 | 238.73 | 204.05 |
| 180.0 | 688.64 | 594.41 | 515.45 | 443.24 | 383.53 | 327.36 | 284.01 | 244.49 | 211.80 |
| 210.0 | 735.84 | 642.75 | 554.12 | 479.15 | 412.54 | 355.45 | 305.65 | 264.44 | 226.99 |
| 240.0 | 752.80 | 659.94 | 564.02 | 487.28 | 419.75 | 361.51 | 306.64 | 260.98 | 222.16 |
| 270.0 | 738.06 | 643.06 | 550.21 | 472.32 | 406.63 | 344.17 | 293.75 | 244.56 | 205.66 |
| 300.0 | 735.91 | 644.60 | 551.74 | 477.31 | 412.85 | 359.82 | 304.57 | 257.92 | 220.16 |
| 330.0 | 736.68 | 653.65 | 571.93 | 499.18 | 432.95 | 375.86 | 325.67 | 281.24 | 243.87 |
| 360.0 | 736.68 | 648.43 | 564.02 | 487.28 | 422.06 | 365.35 | 316.85 | 273.49 | 237.89 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 207.27 | 182.71 | 162.15 | 146.34 | 132.99 | 120.71 | 110.43 | 93.16 | 82.57 |
| 30.0 | 191.54 | 167.90 | 149.48 | 133.14 | 119.33 | 107.20 | 95.46 | 84.49 | 73.36 |
| 60.0 | 167.44 | 141.96 | 121.40 | 102.06 | 87.63 | 74.51 | 63.00 | 50.95 | 38.45 |
| 90.0 | 155.78 | 127.61 | 106.74 | 90.47 | 77.04 | 64.31 | 52.26 | 39.44 | 26.40 |
| 120.0 | 164.37 | 139.59 | 118.41 | 100.68 | 86.94 | 74.05 | 62.69 | 50.49 | 38.68 |
| 150.0 | 179.95 | 159.69 | 142.27 | 125.70 | 113.34 | 103.21 | 91.32 | 80.42 | 70.52 |
| 180.0 | 185.70 | 163.37 | 145.88 | 130.22 | 118.56 | 107.74 | 98.45 | 89.48 | 81.65 |
| 210.0 | 197.45 | 173.12 | 152.94 | 137.67 | 123.78 | 111.58 | 99.91 | 88.94 | 78.43 |
| 240.0 | 187.78 | 160.15 | 136.36 | 117.56 | 100.76 | 85.72 | 73.44 | 61.31 | 49.42 |
| 270.0 | 172.51 | 144.96 | 119.25 | 100.07 | 85.95 | 72.36 | 60.16 | 47.27 | 34.53 |
| 300.0 | 186.86 | 160.15 | 137.05 | 118.79 | 102.44 | 88.71 | 75.89 | 63.69 | 50.65 |
| 330.0 | 212.64 | 187.32 | 166.44 | 150.41 | 130.68 | 112.42 | 100.60 | 89.02 | 78.27 |
| 360.0 | 207.27 | 182.71 | 162.15 | 146.34 | 132.99 | 120.71 | 110.43 | 93.16 | 82.57 |

ROLED 水下灯

光强数据表(cd)

附页 第 8页 共8页

| C/γ(°) | 72.0 | 74.0 | 76.0 | 78.0 | 80.0 | 82.0 | 84.0 | 86.0 | 88.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0.0 | 74.36 | 67.22 | 59.24 | 51.26 | 42.74 | 34.76 | 25.86 | 15.81 | 5.45 |
| 30.0 | 62.39 | 50.57 | 38.29 | 25.94 | 13.89 | 6.68 | 3.68 | 2.38 | 1.07 |
| 60.0 | 26.55 | 15.42 | 9.67 | 6.68 | 4.14 | 3.45 | 2.76 | 1.69 | 0.69 |
| 90.0 | 16.50 | 11.13 | 8.06 | 5.06 | 3.99 | 3.53 | 2.69 | 1.76 | 0.69 |
| 120.0 | 26.01 | 15.04 | 9.29 | 6.37 | 3.99 | 3.38 | 2.69 | 1.69 | 0.69 |
| 150.0 | 59.16 | 47.96 | 36.07 | 24.25 | 12.89 | 6.37 | 3.61 | 2.38 | 1.15 |
| 180.0 | 74.44 | 65.84 | 57.40 | 49.04 | 40.82 | 31.62 | 21.87 | 13.12 | 3.61 |
| 210.0 | 67.22 | 55.40 | 42.59 | 30.54 | 17.34 | 7.83 | 4.22 | 2.69 | 1.30 |
| 240.0 | 36.45 | 24.48 | 13.35 | 8.82 | 5.45 | 3.84 | 3.30 | 2.38 | 1.30 |
| 270.0 | 22.02 | 13.28 | 9.52 | 6.06 | 4.30 | 3.91 | 3.22 | 2.15 | 1.15 |
| 300.0 | 37.83 | 25.40 | 14.20 | 9.52 | 5.45 | 3.91 | 3.38 | 2.38 | 1.23 |
| 330.0 | 67.30 | 55.56 | 42.90 | 30.54 | 17.34 | 8.13 | 3.99 | 2.69 | 1.30 |
| 360.0 | 74.36 | 67.22 | 59.24 | 51.26 | 42.74 | 34.76 | 25.86 | 15.81 | 5.45 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0 | 0.31 |
| 30.0 | 0.23 |
| 60.0 | 0.08 |
| 90.0 | 0.08 |
| 120.0 | 0.00 |
| 150.0 | 0.23 |
| 180.0 | 0.54 |
| 210.0 | 0.31 |
| 240.0 | 0.23 |
| 270.0 | 0.15 |
| 300.0 | 0.23 |
| 330.0 | 0.23 |
| 360.0 | 0.31 |