

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2021A-16-UN (60-OL-16WN-C, P1)

报告编号:

电压(V): 220.7000

测试编号: 20210317012

电流(A): 0.1100

光源规格型号: OL

功率(W): 19.5000

每个光源光通量(lm)

功率因数: 0.8030

光源数量: 16

镇流器型号:

发光面长度(mm): 155

发光面宽度(mm): 155

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 1637.03

灯具效能(lm/w): 83.95

中心光强(cd): 1633.744

最大光强(cd): 1647.556

最大光强角度: $C=210.0 \gamma=2.0$

半峰边角(50%Imax): [C0/180]Total=53.0

[C90/270]Total=53.2

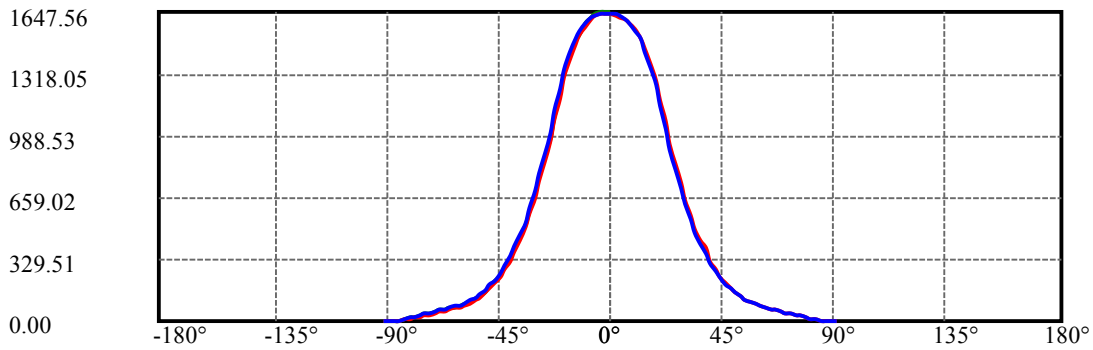
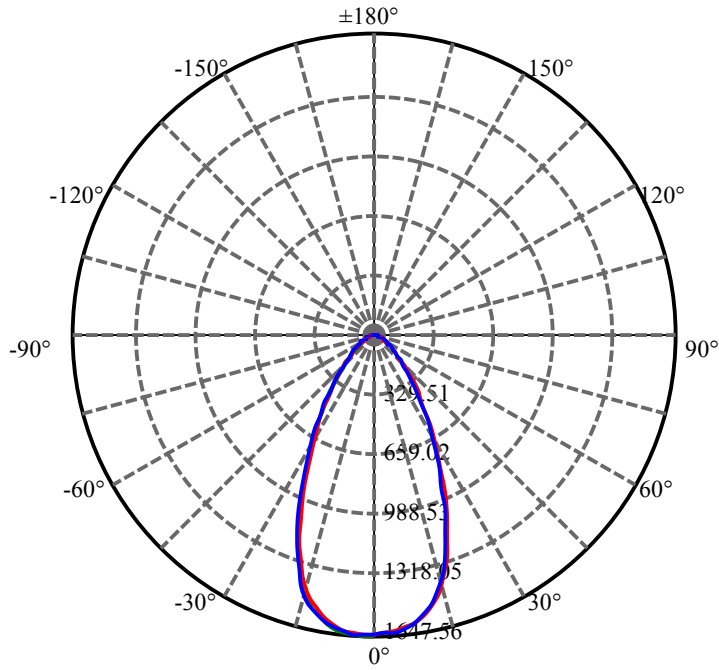
光束扩散角(10%Imax): [C0/180]Total=98.0

[C90/270]Total=98.8

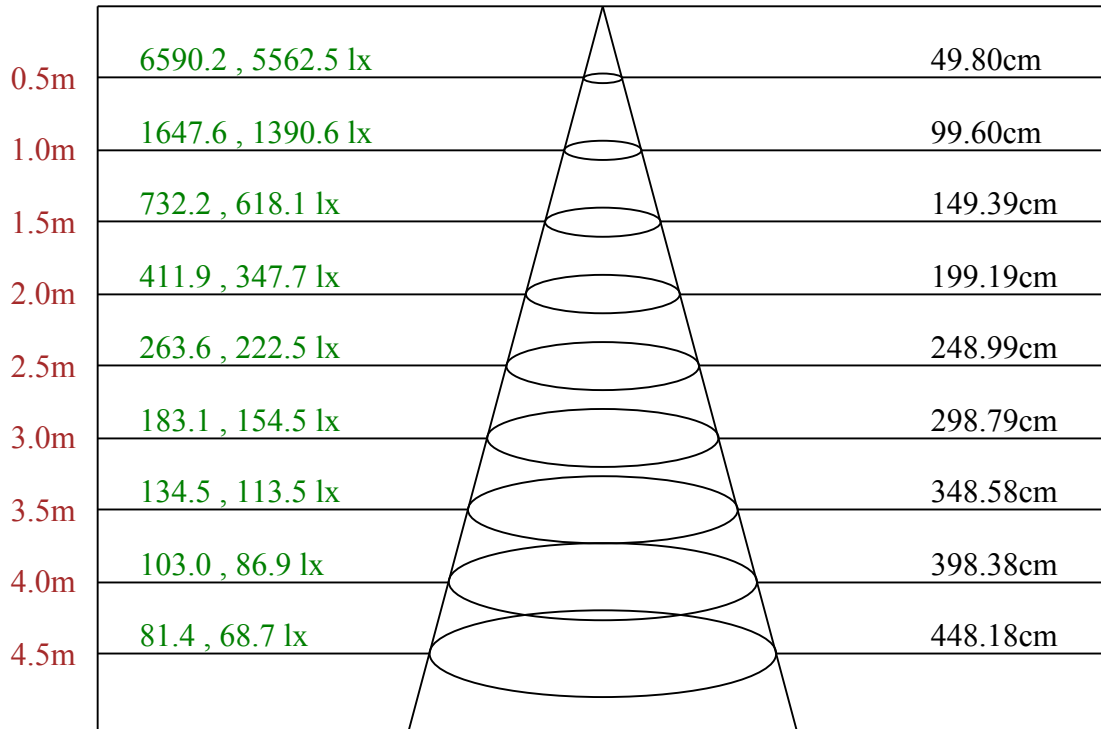
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/17
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

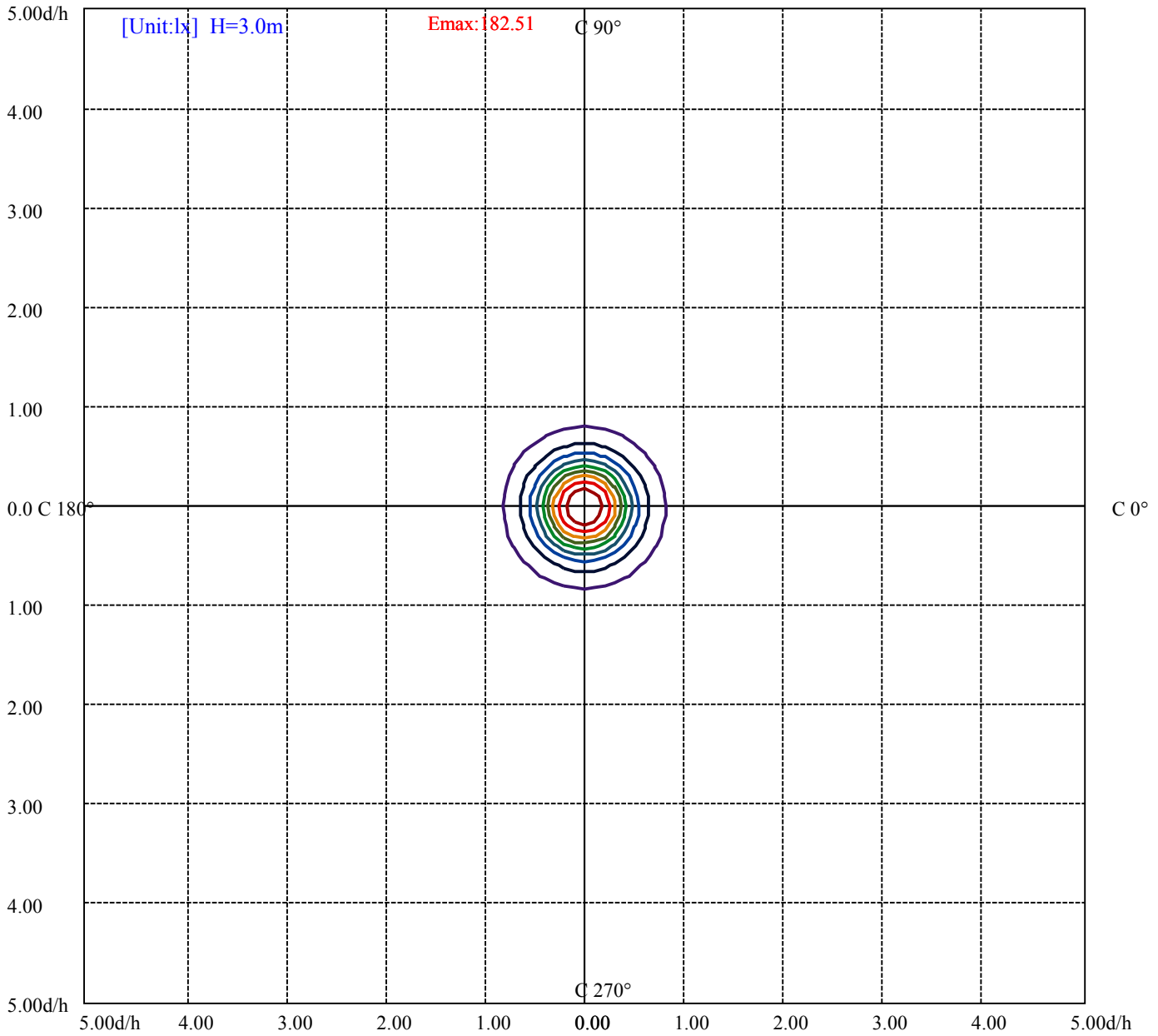


C210(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C210面光束角52.94

ROLED 投光灯
平面等照度曲线



| | |
|--------------------|---|
| (10%Emax) 18.25078 | — |
| (20%Emax) 36.50156 | — |
| (30%Emax) 54.75222 | — |
| (40%Emax) 73.003 | — |
| (50%Emax) 91.25378 | — |
| (60%Emax) 109.5046 | — |
| (70%Emax) 127.7556 | — |
| (80%Emax) 146.0056 | — |
| (90%Emax) 164.2567 | — |

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ROLED 投光灯

灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

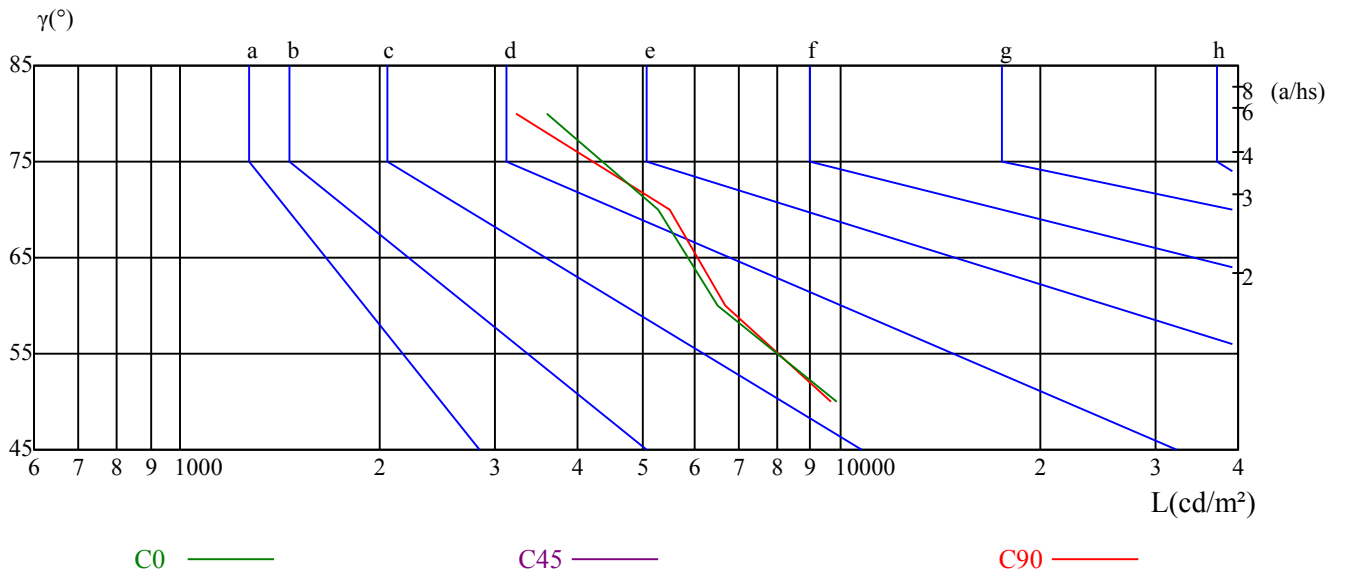
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|------|----|------|----|------|----|------|----|
| C0 | 0 | 9844 | 0 | 6516 | 0 | 5286 | 0 | 3587 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 9685 | 0 | 6708 | 0 | 5491 | 0 | 3219 | 0 |

| 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 | 14.57 | 15.77 | 14.93 | 16.09 | 16.40 | 14.25 | 15.46 | 14.61 | 15.77 | 16.08 |
| | 3H | 15.98 | 17.05 | 16.36 | 17.38 | 17.75 | 15.60 | 16.67 | 15.98 | 17.00 | 17.37 |
| | 4H | 16.47 | 17.47 | 16.87 | 17.82 | 18.20 | 16.07 | 17.07 | 16.48 | 17.42 | 17.81 |
| | 6H | 16.73 | 17.64 | 17.14 | 18.01 | 18.41 | 16.32 | 17.23 | 16.73 | 17.61 | 18.00 |
| | 8H | 16.76 | 17.62 | 17.19 | 18.01 | 18.42 | 16.34 | 17.21 | 16.78 | 17.60 | 18.01 |
| | 12H | 16.76 | 17.58 | 17.19 | 17.97 | 18.40 | 16.34 | 17.16 | 16.77 | 17.55 | 17.98 |
| 4H | 2H | 15.03 | 16.02 | 15.43 | 16.37 | 16.76 | 14.77 | 15.77 | 15.17 | 16.12 | 16.50 |
| | 3H | 16.70 | 17.51 | 17.11 | 17.92 | 18.32 | 16.38 | 17.20 | 16.80 | 17.61 | 18.01 |
| | 4H | 17.31 | 18.04 | 17.74 | 18.46 | 18.90 | 16.97 | 17.70 | 17.40 | 18.12 | 18.56 |
| | 6H | 17.59 | 18.22 | 18.06 | 18.67 | 19.13 | 17.24 | 17.87 | 17.71 | 18.31 | 18.78 |
| | 8H | 17.63 | 18.22 | 18.11 | 18.67 | 19.14 | 17.28 | 17.86 | 17.75 | 18.31 | 18.78 |
| | 12H | 17.63 | 18.15 | 18.12 | 18.63 | 19.11 | 17.27 | 17.78 | 17.76 | 18.27 | 18.74 |
| 8H | 4H | 17.49 | 18.08 | 17.96 | 18.52 | 19.00 | 17.19 | 17.77 | 17.66 | 18.22 | 18.69 |
| | 6H | 17.86 | 18.33 | 18.36 | 18.83 | 19.31 | 17.54 | 18.01 | 18.04 | 18.51 | 18.99 |
| | 8H | 17.93 | 18.35 | 18.46 | 18.87 | 19.36 | 17.61 | 18.03 | 18.13 | 18.55 | 19.04 |
| | 12H | 18.50 | 18.87 | 19.02 | 19.37 | 19.94 | 18.17 | 18.54 | 18.69 | 19.04 | 19.61 |
| 12H | 4H | 17.47 | 17.98 | 17.96 | 18.47 | 18.94 | 17.18 | 17.69 | 17.66 | 18.17 | 18.65 |
| | 6H | 18.33 | 18.27 | 18.38 | 18.74 | 19.29 | 18.02 | 17.96 | 18.07 | 18.43 | 18.98 |
| | 8H | 17.95 | 18.32 | 18.47 | 18.81 | 19.39 | 17.63 | 18.00 | 18.15 | 18.50 | 19.07 |
| 对应照射距离，改变观察者位置S | | | | | | | | | | | |
| S = 1.0H | 0.8/-1.1 | | | | | 0.8/-1.1 | | | | | |
| S = 1.5H | 1.6/-1.5 | | | | | 1.7/-1.5 | | | | | |
| S = 2.0H | 3.4/-1.8 | | | | | 3.4/-1.8 | | | | | |
| 标准表格 | BK2 | | | | | BK3 | | | | | |
| 更正系数 | 1.4 | | | | | 2.1 | | | | | |

ROLED 投光灯

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 | 1633.74 | 1627.60 | 1619.93 | 1606.12 | 1584.63 | 1552.40 | 1508.66 | 1453.41 | 1375.91 |
| 30.0 | 1643.72 | 1637.58 | 1627.60 | 1614.56 | 1587.70 | 1552.40 | 1506.36 | 1443.43 | 1362.09 |
| 60.0 | 1641.42 | 1634.51 | 1625.30 | 1610.72 | 1581.56 | 1528.61 | 1497.61 | 1435.07 | 1340.07 |
| 90.0 | 1637.58 | 1632.21 | 1625.30 | 1610.72 | 1584.63 | 1547.03 | 1500.99 | 1434.99 | 1355.19 |
| 120.0 | 1636.05 | 1632.98 | 1629.14 | 1613.02 | 1586.17 | 1546.26 | 1503.29 | 1434.99 | 1351.20 |
| 150.0 | 1633.74 | 1636.05 | 1633.74 | 1623.77 | 1600.75 | 1563.14 | 1518.64 | 1455.71 | 1375.91 |
| 180.0 | 1633.74 | 1636.05 | 1633.74 | 1624.53 | 1602.28 | 1567.75 | 1527.92 | 1472.67 | 1391.87 |
| 210.0 | 1643.72 | 1647.56 | 1644.49 | 1636.05 | 1616.09 | 1583.10 | 1528.08 | 1489.48 | 1410.13 |
| 240.0 | 1641.42 | 1644.49 | 1642.95 | 1637.58 | 1621.47 | 1594.61 | 1553.17 | 1500.22 | 1425.78 |
| 270.0 | 1637.58 | 1639.88 | 1636.81 | 1629.91 | 1613.79 | 1586.17 | 1546.26 | 1504.29 | 1430.54 |
| 300.0 | 1636.05 | 1636.05 | 1631.44 | 1624.53 | 1606.12 | 1576.19 | 1537.05 | 1487.94 | 1417.34 |
| 330.0 | 1633.74 | 1629.91 | 1624.53 | 1613.02 | 1591.54 | 1558.54 | 1522.70 | 1464.69 | 1393.55 |
| 360.0 | 1633.74 | 1627.60 | 1619.93 | 1606.12 | 1584.63 | 1552.40 | 1508.66 | 1453.41 | 1375.91 |
| C/γ(°) | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| 0.0 | 1283.05 | 1176.39 | 1065.89 | 943.11 | 836.44 | 735.15 | 646.90 | 566.32 | 491.12 |
| 30.0 | 1265.40 | 1154.90 | 1035.96 | 926.22 | 818.02 | 718.26 | 632.32 | 550.98 | 481.91 |
| 60.0 | 1247.14 | 1132.49 | 1019.23 | 904.81 | 798.07 | 704.14 | 615.67 | 535.78 | 465.57 |
| 90.0 | 1256.19 | 1142.62 | 1022.91 | 914.71 | 805.74 | 709.82 | 625.41 | 545.60 | 474.24 |
| 120.0 | 1251.97 | 1147.76 | 1029.05 | 916.48 | 809.81 | 714.50 | 625.49 | 544.84 | 477.85 |
| 150.0 | 1278.45 | 1169.48 | 1058.21 | 945.41 | 837.97 | 738.22 | 652.27 | 568.63 | 497.26 |
| 180.0 | 1298.63 | 1190.35 | 1072.02 | 958.07 | 846.11 | 743.59 | 657.41 | 572.62 | 497.49 |
| 210.0 | 1317.12 | 1210.15 | 1087.76 | 971.65 | 868.98 | 763.85 | 672.45 | 587.04 | 508.46 |
| 240.0 | 1337.54 | 1237.78 | 1124.21 | 1009.10 | 898.60 | 792.70 | 695.24 | 612.37 | 532.56 |
| 270.0 | 1340.22 | 1237.85 | 1125.51 | 1005.49 | 891.38 | 783.87 | 696.24 | 607.61 | 526.11 |
| 300.0 | 1332.16 | 1234.71 | 1120.37 | 1001.43 | 896.30 | 791.93 | 693.71 | 612.37 | 532.56 |
| 330.0 | 1300.55 | 1195.11 | 1082.00 | 966.51 | 857.01 | 754.33 | 667.46 | 582.82 | 508.85 |
| 360.0 | 1283.05 | 1176.39 | 1065.89 | 943.11 | 836.44 | 735.15 | 646.90 | 566.32 | 491.12 |
| C/γ(°) | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.0 | 48.0 | 50.0 | 52.0 |
| 0.0 | 428.20 | 389.83 | 321.07 | 275.79 | 238.73 | 204.20 | 176.50 | 152.02 | 130.45 |
| 30.0 | 418.99 | 364.20 | 314.47 | 272.65 | 234.89 | 202.13 | 175.96 | 151.86 | 132.07 |
| 60.0 | 408.09 | 353.07 | 305.57 | 265.21 | 228.91 | 197.45 | 170.66 | 149.41 | 130.07 |
| 90.0 | 414.38 | 359.29 | 309.56 | 269.43 | 231.98 | 199.44 | 173.04 | 149.56 | 129.53 |
| 120.0 | 414.77 | 358.29 | 309.18 | 268.43 | 231.36 | 199.21 | 172.97 | 149.25 | 130.45 |
| 150.0 | 431.27 | 389.83 | 322.22 | 279.79 | 240.34 | 206.12 | 177.80 | 152.86 | 131.91 |
| 180.0 | 430.80 | 372.94 | 320.76 | 278.48 | 238.35 | 203.66 | 173.96 | 149.25 | 127.69 |
| 210.0 | 446.23 | 386.45 | 332.50 | 287.00 | 248.02 | 212.18 | 184.25 | 158.39 | 135.90 |
| 240.0 | 465.80 | 404.41 | 350.38 | 301.66 | 262.60 | 225.38 | 193.76 | 168.44 | 145.26 |
| 270.0 | 459.43 | 398.04 | 344.94 | 297.59 | 256.15 | 219.32 | 190.16 | 163.91 | 141.27 |
| 300.0 | 461.19 | 400.57 | 349.62 | 300.89 | 260.91 | 224.30 | 192.92 | 166.90 | 145.57 |
| 330.0 | 442.39 | 383.53 | 330.36 | 285.92 | 247.56 | 212.26 | 184.86 | 159.38 | 137.28 |
| 360.0 | 428.20 | 389.83 | 321.07 | 275.79 | 238.73 | 204.20 | 176.50 | 152.02 | 130.45 |
| C/γ(°) | 54.0 | 56.0 | 58.0 | 60.0 | 62.0 | 64.0 | 66.0 | 68.0 | 70.0 |
| 0.0 | 112.96 | 99.30 | 87.94 | 78.27 | 70.98 | 63.31 | 56.40 | 50.03 | 43.43 |
| 30.0 | 114.80 | 101.83 | 91.16 | 83.18 | 75.82 | 69.22 | 63.08 | 56.48 | 49.73 |
| 60.0 | 114.72 | 102.14 | 92.01 | 83.72 | 75.97 | 69.75 | 63.31 | 56.71 | 49.57 |
| 90.0 | 113.19 | 100.99 | 89.63 | 80.57 | 72.98 | 65.69 | 59.16 | 52.10 | 45.12 |
| 120.0 | 113.73 | 101.75 | 91.39 | 83.26 | 75.28 | 68.60 | 62.39 | 55.56 | 48.50 |
| 150.0 | 114.88 | 102.21 | 91.39 | 82.88 | 75.66 | 69.06 | 63.23 | 56.25 | 49.73 |
| 180.0 | 110.12 | 97.07 | 85.56 | 76.12 | 68.22 | 61.01 | 54.33 | 47.96 | 41.75 |
| 210.0 | 118.25 | 104.21 | 92.32 | 83.26 | 76.20 | 69.14 | 62.85 | 56.56 | 49.80 |
| 240.0 | 126.39 | 111.50 | 99.30 | 88.79 | 81.42 | 74.13 | 67.45 | 61.16 | 54.33 |
| 270.0 | 124.08 | 108.97 | 96.61 | 85.95 | 77.58 | 69.83 | 62.92 | 56.40 | 49.19 |
| 300.0 | 126.69 | 111.88 | 99.76 | 89.78 | 81.80 | 73.90 | 68.07 | 61.85 | 55.17 |
| 330.0 | 120.32 | 105.90 | 94.16 | 85.18 | 78.04 | 71.14 | 64.92 | 58.78 | 51.87 |
| 360.0 | 112.96 | 99.30 | 87.94 | 78.27 | 70.98 | 63.31 | 56.40 | 50.03 | 43.43 |

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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 | 37.06 | 32.46 | 27.40 | 21.41 | 14.96 | 8.59 | 2.30 | 1.46 | 0.69 |
| 30.0 | 42.97 | 35.45 | 30.16 | 23.40 | 15.19 | 9.06 | 2.92 | 1.07 | 0.54 |
| 60.0 | 42.28 | 35.30 | 28.85 | 20.80 | 13.20 | 7.29 | 1.69 | 1.00 | 0.38 |
| 90.0 | 38.98 | 32.61 | 26.78 | 19.18 | 13.43 | 5.99 | 1.69 | 1.07 | 0.38 |
| 120.0 | 41.28 | 35.30 | 28.32 | 20.26 | 12.74 | 6.14 | 1.53 | 1.00 | 0.31 |
| 150.0 | 42.28 | 35.22 | 28.93 | 21.72 | 13.97 | 8.06 | 2.07 | 0.77 | 0.31 |
| 180.0 | 35.61 | 30.93 | 25.48 | 18.72 | 12.89 | 6.52 | 1.76 | 1.07 | 0.38 |
| 210.0 | 43.13 | 36.07 | 30.62 | 24.10 | 15.65 | 9.44 | 3.53 | 1.07 | 0.54 |
| 240.0 | 47.65 | 40.36 | 33.76 | 26.78 | 18.72 | 11.66 | 5.14 | 1.38 | 0.69 |
| 270.0 | 42.51 | 36.37 | 30.08 | 23.71 | 16.96 | 10.51 | 4.22 | 1.61 | 0.84 |
| 300.0 | 48.19 | 41.21 | 34.76 | 27.78 | 19.88 | 11.82 | 5.83 | 1.61 | 0.92 |
| 330.0 | 45.43 | 37.45 | 31.46 | 25.17 | 17.34 | 10.59 | 4.30 | 1.30 | 0.61 |
| 360.0 | 37.06 | 32.46 | 27.40 | 21.41 | 14.96 | 8.59 | 2.30 | 1.46 | 0.69 |

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