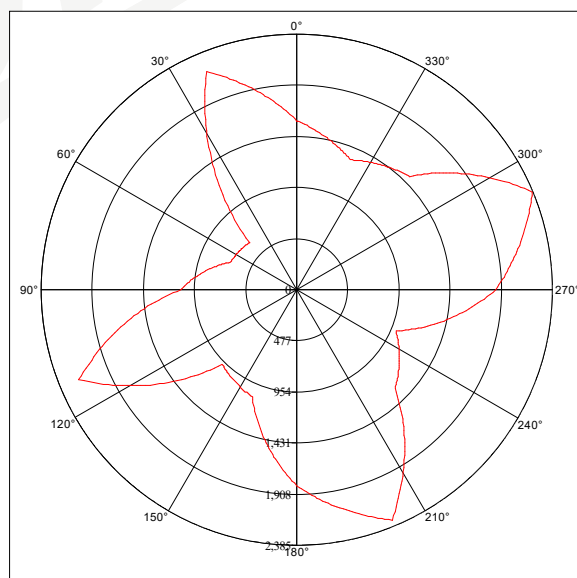
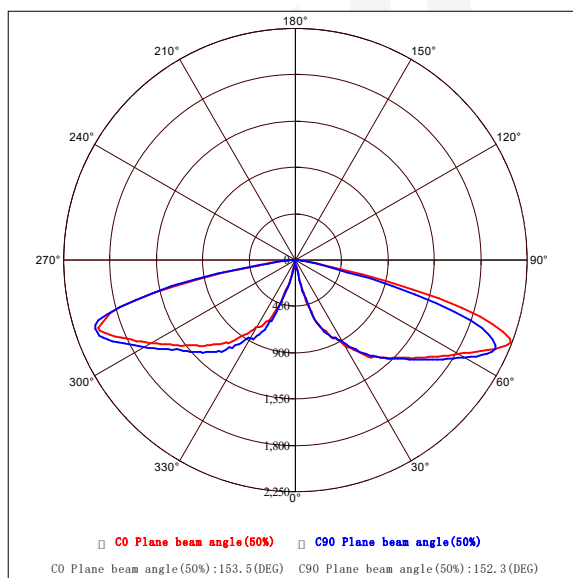


Goniophotometer Test Report

| | | | | | | |
|---|--|-----|-------------------------|-------------|-----------------------|-------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | | | | | |
| Lamp Name: | | | Lamp Type: | | Weight (kg) : | |
| Lamp ID: | | | Lamp Spec: | | Shape Size: | |
| Manufactory: | | | Sur (m ²) : | | Protect Angle (Deg) : | |
| Light Source Data | | | Photometric Data | | | |
| Model | | | Peak Value (cd) | 2381.4 | Efficiency (lm/w) | 114.1 |
| Nominal P (w) | | 0.0 | Position | 292.5, 74.0 | UP (C0-C180) | 0.0 |
| Rated Volt (v) | | 0.0 | Total Flux (lm) | 6779.249 | Down (C0-C180) | 49.5 |
| Rated Flux (lm) | | 0.0 | Up Flux Rate (%) | 0.0 | UP (C180-C360) | 0.0 |
| Illuminant QTY | | 0 | Dw Flux Rate (%) | 100.0 | Down (C180-C360) | 50.5 |

Planar Intensity Distribution Curve

Peak Point Conical surface Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

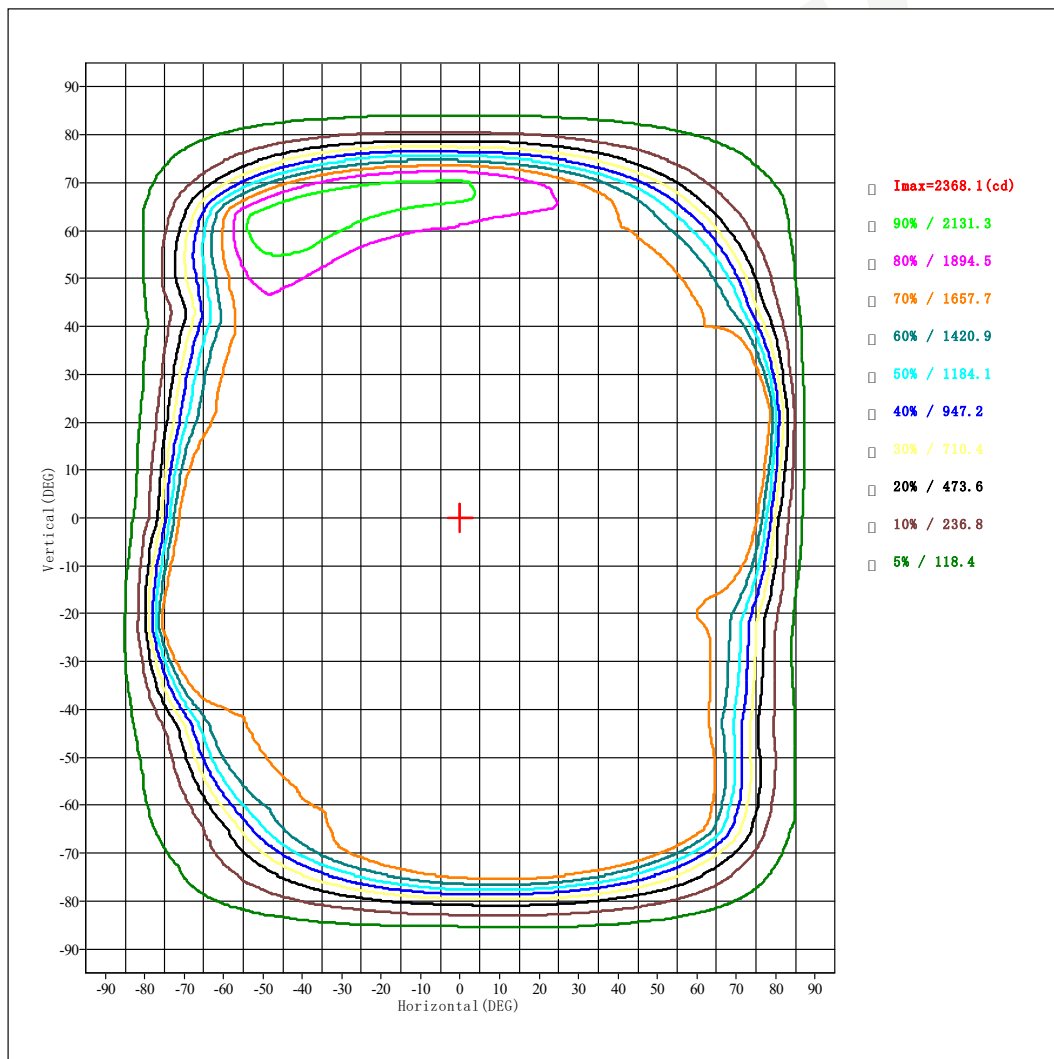
Humidity(%): 60

Date: 2023/6/20

Remark:

| | | |
|---|-----------------------|---------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight(kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur(m ²): | Protect Angle(Deg): |

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

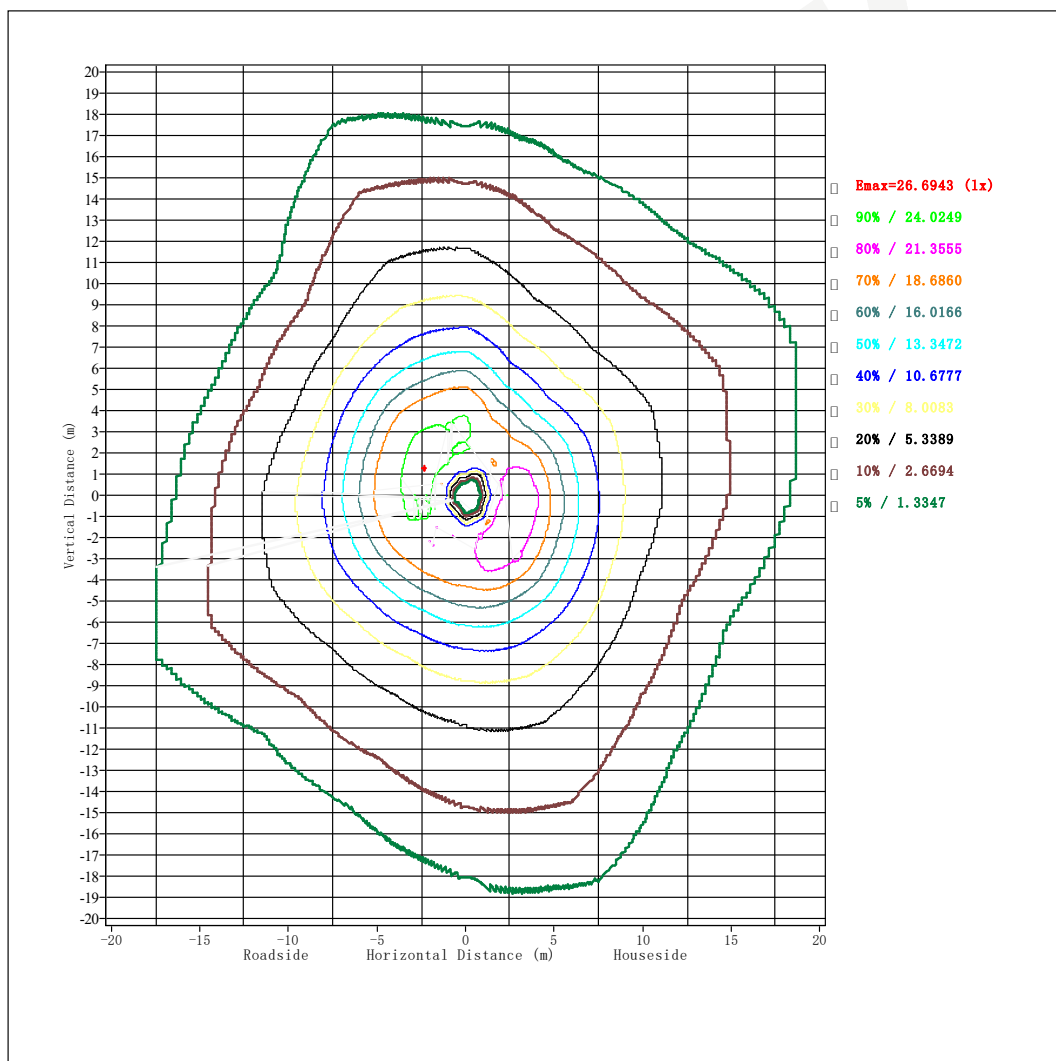
Humidity(%): 60

Date: 2023/6/20

Remark:

| | | |
|---|------------------------|---------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight(kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): |

Planar Isolux curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

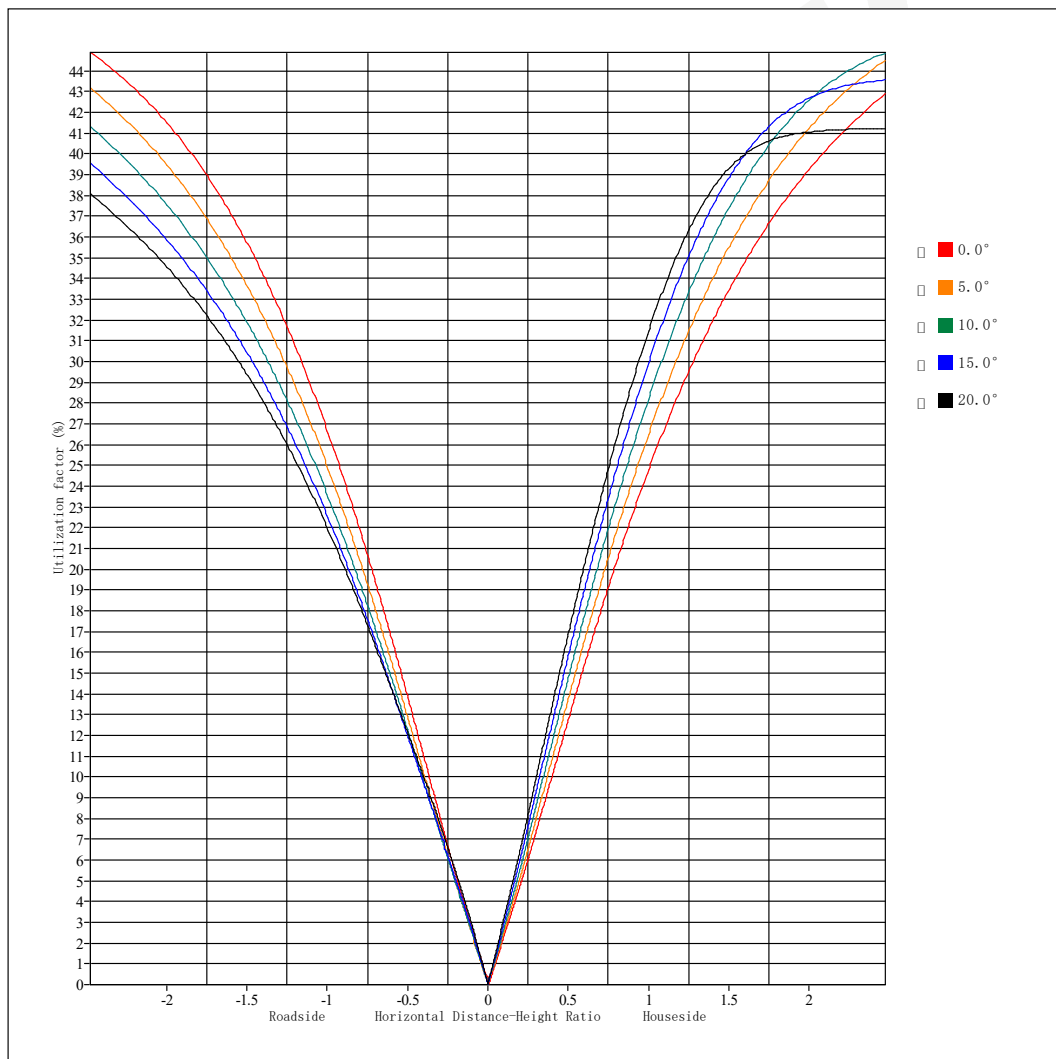
Humidity(%): 60

Date: 2023/6/20

Remark:

| | | |
|---|-----------------------|---------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight(kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur(m ²): | Protect Angle(Deg): |

Utilization Coefficient



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

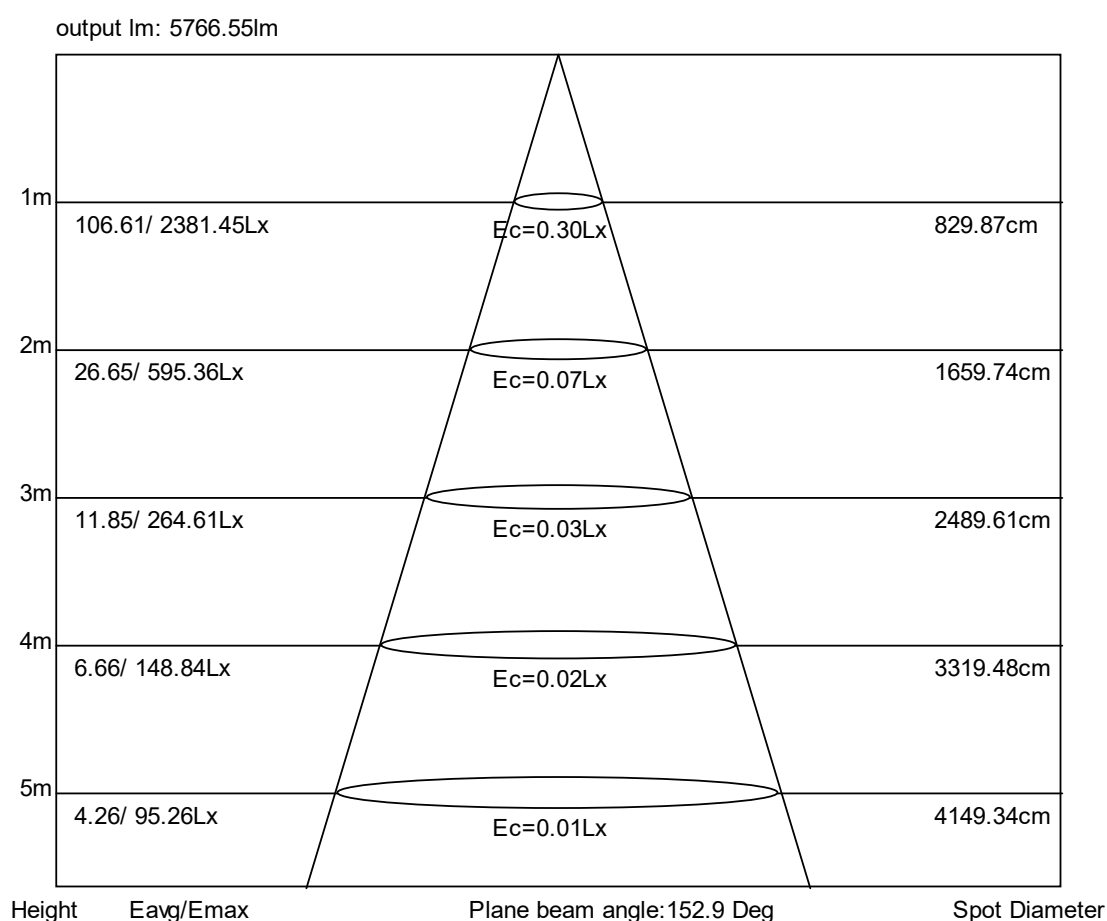
Humidity(%): 60

Date: 2023/6/20

Remark:

| | | |
|---|------------------------|---------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight(kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): |

Average Illumination



Gama Angle Range: -90 - 90 (Deg)

Gama interval (Deg): 1

Temperature (Deg): 25

Tester:

Distance (m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180 (Deg)

C interval (Deg): 22.5

Humidity (%): 60

Date: 2023/6/20

Remark:

| | | |
|---|------------------------|----------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight (kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle (Deg): |

Ring-shaped Flux Data Table

| Gm\C(Deg) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | Range | Ring | T(lm) |
|-----------|------|------|------|------|------|------|------|------|---------|------|-------|
| 5 | 13.4 | 16.8 | 12.7 | 10.4 | 1.89 | 1.41 | 2.05 | 1.83 | 0-5 | 0.07 | 0.07 |
| 10 | 172 | 202 | 172 | 134 | 38.5 | 27.5 | 38.9 | 31 | 5-10 | 3.07 | 3.14 |
| 15 | 451 | 511 | 424 | 459 | 194 | 241 | 264 | 184 | 10-15 | 25.6 | 28.7 |
| 20 | 710 | 702 | 674 | 583 | 513 | 550 | 611 | 456 | 15-20 | 81.5 | 110 |
| 25 | 838 | 864 | 861 | 696 | 655 | 753 | 828 | 620 | 20-25 | 148 | 258 |
| 30 | 972 | 987 | 947 | 825 | 776 | 885 | 897 | 714 | 25-30 | 209 | 467 |
| 35 | 1129 | 1182 | 1108 | 967 | 912 | 1032 | 1050 | 888 | 30-35 | 281 | 747 |
| 40 | 1244 | 1313 | 1253 | 1086 | 1041 | 1205 | 1162 | 953 | 35-40 | 364 | 1112 |
| 45 | 1352 | 1417 | 1364 | 1192 | 1186 | 1322 | 1282 | 1085 | 40-45 | 448 | 1559 |
| 50 | 1499 | 1568 | 1517 | 1324 | 1305 | 1443 | 1390 | 1134 | 45-50 | 535 | 2094 |
| 55 | 1648 | 1715 | 1703 | 1457 | 1457 | 1611 | 1531 | 1252 | 50-55 | 635 | 2729 |
| 60 | 1845 | 1810 | 1916 | 1578 | 1640 | 1778 | 1714 | 1383 | 55-60 | 749 | 3478 |
| 65 | 2092 | 1676 | 2122 | 1657 | 1833 | 1849 | 1918 | 1510 | 60-65 | 863 | 4341 |
| 70 | 2187 | 1230 | 1876 | 1552 | 2037 | 1667 | 2055 | 1596 | 65-70 | 939 | 5280 |
| 75 | 1317 | 475 | 868 | 782 | 1701 | 1172 | 1673 | 1416 | 70-75 | 855 | 6135 |
| 80 | 246 | 114 | 148 | 158 | 592 | 387 | 661 | 591 | 75-80 | 491 | 6626 |
| 85 | 35.1 | 25.5 | 27.5 | 36 | 96.7 | 108 | 114 | 121 | 80-85 | 131 | 6758 |
| 90 | 18.4 | 16.3 | 16.3 | 20.4 | 15.1 | 26.1 | 24.9 | 28.3 | 85-90 | 21.7 | 6779 |
| 95 | | | | | | | | | 90-95 | | |
| 100 | | | | | | | | | 95-100 | | |
| 105 | | | | | | | | | 100-105 | | |
| 110 | | | | | | | | | 105-110 | | |
| 115 | | | | | | | | | 110-115 | | |
| 120 | | | | | | | | | 115-120 | | |
| 125 | | | | | | | | | 120-125 | | |
| 130 | | | | | | | | | 125-130 | | |
| 135 | | | | | | | | | 130-135 | | |
| 140 | | | | | | | | | 135-140 | | |
| 145 | | | | | | | | | 140-145 | | |
| 150 | | | | | | | | | 145-150 | | |
| 155 | | | | | | | | | 150-155 | | |
| 160 | | | | | | | | | 155-160 | | |
| 165 | | | | | | | | | 160-165 | | |
| 170 | | | | | | | | | 165-170 | | |
| 175 | | | | | | | | | 170-175 | | |
| 180 | | | | | | | | | 175-180 | | |

Gama Angle Range:-90 - 90 (Deg)

Gama interval (Deg): 1

Temperature (Deg): 25

Tester:

Distance (m): 10.523

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180 (Deg)

C interval (Deg): 22.5

Humidity (%): 60

Date: 2023/6/20

Remark:

| | | |
|---|-----------------------|---------------------|
| Measured Para U: 219.5V I: 277.0mA P: 59.42W PF: 0.975 Test LM: 6779.25lm | | |
| Lamp Name: | Lamp Type: | Weight(kg): |
| Lamp ID: | Lamp Spec: | Shape Size: |
| Manufactory: | Sur(m ²): | Protect Angle(Deg): |

CD Table

| Gm\C(Deg) | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5.0 | 13.4 | 9.86 | 15.2 | 10.9 | 10.5 | 9.22 | 6.73 | 9.5 | 5.58 | 1.89 | 2.43 | 1.65 | 2.62 | 2.58 | 2.82 | 3.12 | 1.99 | 3.93 |
| 10.0 | 172 | 140 | 188 | 156 | 154 | 141 | 112 | 128 | 99 | 38.5 | 44.1 | 31.3 | 57.2 | 53.7 | 46.1 | 46.9 | 38.1 | 76.8 |
| 15.0 | 451 | 427 | 492 | 458 | 426 | 402 | 403 | 442 | 358 | 194 | 267 | 249 | 291 | 287 | 263 | 235 | 200 | 281 |
| 20.0 | 710 | 709 | 703 | 771 | 732 | 711 | 698 | 592 | 611 | 513 | 488 | 536 | 601 | 618 | 582 | 514 | 485 | 604 |
| 25.0 | 838 | 813 | 852 | 883 | 875 | 850 | 787 | 693 | 676 | 655 | 716 | 747 | 751 | 794 | 792 | 703 | 641 | 732 |
| 30.0 | 972 | 938 | 976 | 952 | 941 | 940 | 895 | 830 | 840 | 776 | 852 | 880 | 892 | 897 | 872 | 795 | 731 | 814 |
| 35.0 | 1129 | 1116 | 1167 | 1156 | 1123 | 1093 | 1037 | 968 | 965 | 912 | 997 | 1027 | 1019 | 1034 | 1019 | 948 | 892 | 934 |
| 40.0 | 1244 | 1237 | 1296 | 1276 | 1255 | 1231 | 1162 | 1078 | 1050 | 1041 | 1124 | 1190 | 1194 | 1174 | 1134 | 1048 | 961 | 1021 |
| 45.0 | 1352 | 1349 | 1402 | 1391 | 1370 | 1344 | 1274 | 1181 | 1147 | 1186 | 1260 | 1311 | 1298 | 1283 | 1248 | 1164 | 1087 | 1127 |
| 50.0 | 1499 | 1491 | 1551 | 1530 | 1514 | 1487 | 1406 | 1309 | 1263 | 1305 | 1378 | 1431 | 1410 | 1391 | 1366 | 1265 | 1145 | 1222 |
| 55.0 | 1648 | 1662 | 1704 | 1688 | 1690 | 1663 | 1559 | 1441 | 1392 | 1457 | 1546 | 1599 | 1567 | 1537 | 1505 | 1396 | 1265 | 1351 |
| 60.0 | 1845 | 1885 | 1827 | 1783 | 1851 | 1878 | 1742 | 1561 | 1518 | 1640 | 1753 | 1776 | 1713 | 1699 | 1695 | 1572 | 1393 | 1481 |
| 65.0 | 2092 | 2166 | 1786 | 1663 | 1918 | 2115 | 1952 | 1641 | 1616 | 1833 | 2032 | 1896 | 1728 | 1807 | 1923 | 1786 | 1519 | 1621 |
| 70.0 | 2187 | 2349 | 1480 | 1237 | 1598 | 2079 | 2069 | 1543 | 1574 | 2037 | 2287 | 1811 | 1501 | 1775 | 2144 | 2031 | 1593 | 1657 |
| 75.0 | 1317 | 1982 | 825 | 488 | 705 | 1387 | 1616 | 809 | 1006 | 1701 | 2147 | 1400 | 965 | 1316 | 1978 | 2042 | 1358 | 1173 |
| 80.0 | 246 | 741 | 266 | 114 | 133 | 362 | 471 | 163 | 231 | 592 | 1193 | 582 | 294 | 479 | 1025 | 1183 | 527 | 291 |
| 85.0 | 35.1 | 56.5 | 33 | 25.4 | 26.6 | 40.6 | 50.1 | 39 | 55.5 | 96.7 | 177 | 126 | 79.6 | 92.3 | 159 | 184 | 110 | 65.2 |
| 90.0 | 18.4 | 19.5 | 17 | 14 | 14.8 | 18.4 | 21 | 20.3 | 19.3 | 15.1 | 22.8 | 25.6 | 21.3 | 22.3 | 26.6 | 28.6 | 27.8 | 25 |
| 95.0 | | | | | | | | | | | | | | | | | | |
| 100.0 | | | | | | | | | | | | | | | | | | |
| 105.0 | | | | | | | | | | | | | | | | | | |
| 110.0 | | | | | | | | | | | | | | | | | | |
| 115.0 | | | | | | | | | | | | | | | | | | |
| 120.0 | | | | | | | | | | | | | | | | | | |
| 125.0 | | | | | | | | | | | | | | | | | | |
| 130.0 | | | | | | | | | | | | | | | | | | |
| 135.0 | | | | | | | | | | | | | | | | | | |
| 140.0 | | | | | | | | | | | | | | | | | | |
| 145.0 | | | | | | | | | | | | | | | | | | |
| 150.0 | | | | | | | | | | | | | | | | | | |
| 155.0 | | | | | | | | | | | | | | | | | | |
| 160.0 | | | | | | | | | | | | | | | | | | |
| 165.0 | | | | | | | | | | | | | | | | | | |
| 170.0 | | | | | | | | | | | | | | | | | | |
| 175.0 | | | | | | | | | | | | | | | | | | |
| 180.0 | | | | | | | | | | | | | | | | | | |

Gama Angle Range:-90 - 90(Deg)

C Angle Range:0 - 180(Deg)

Gama interval(Deg): 1

C interval(Deg): 22.5

Temperature(Deg): 25

Humidity(%): 60

Tester:

Date: 2023/6/20

Distance(m): 10.523

Remark:

Test System: ZWL Goniophotometer System V3.0