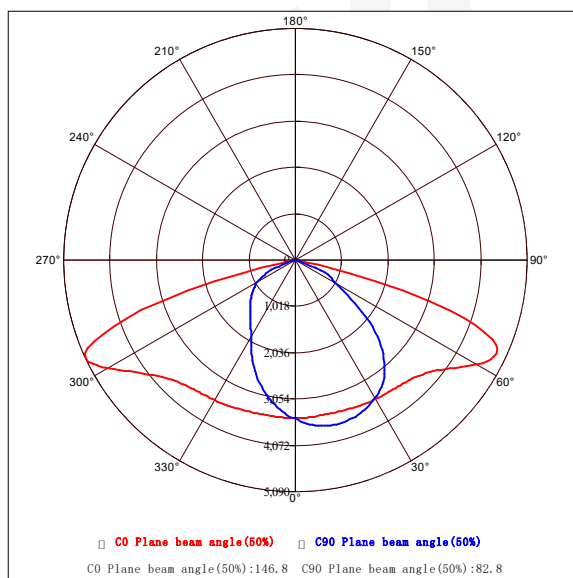


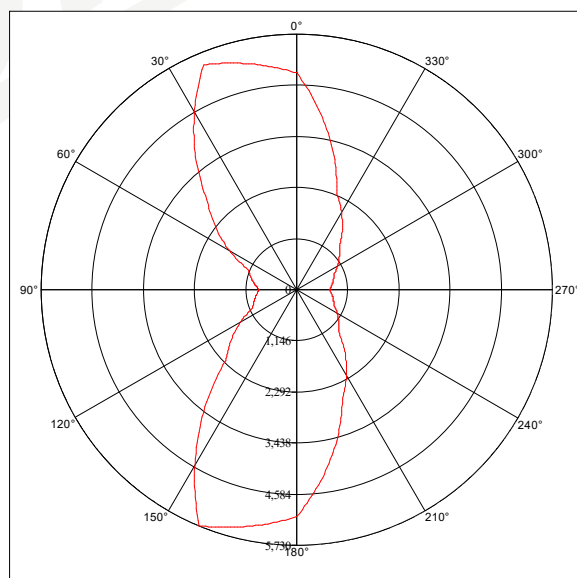
Goniophotometer Test Report

| | | | | | | |
|--|-----|------|------------------------|-------------|---|-------|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.76lm | | | | | | |
| Lamp Name: py-led597-85w | | | Lamp Type: street lamp | | Weight(kg): | |
| Lamp ID: | | | Lamp Spec: 85w | | Shape Size: | |
| Manufactory: | | | Sur(m ²): | | Protect Angle(Deg): 146x85-TPII-M cutoff | |
| Light Source Data | | | Photometric Data | | | |
| Model | 85w | | Peak Value(cd) | 5726.9 | Efficiency(lm/w) | 143.2 |
| Nominal P(w) | | 85.0 | Position | 157.5, 64.0 | UP(C0-C180) | 0.0 |
| Rated Volt(v) | | 1.0 | Total Flux(lm) | 12306.760 | Down(C0-C180) | 60.2 |
| Rated Flux(lm) | | 1.0 | Up Flux Rate(%) | 0.0 | UP(C180-C360) | 0.0 |
| Illuminant QTY | | 72 | Dw Flux Rate(%) | 100.0 | Down(C180-C360) | 39.8 |

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): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

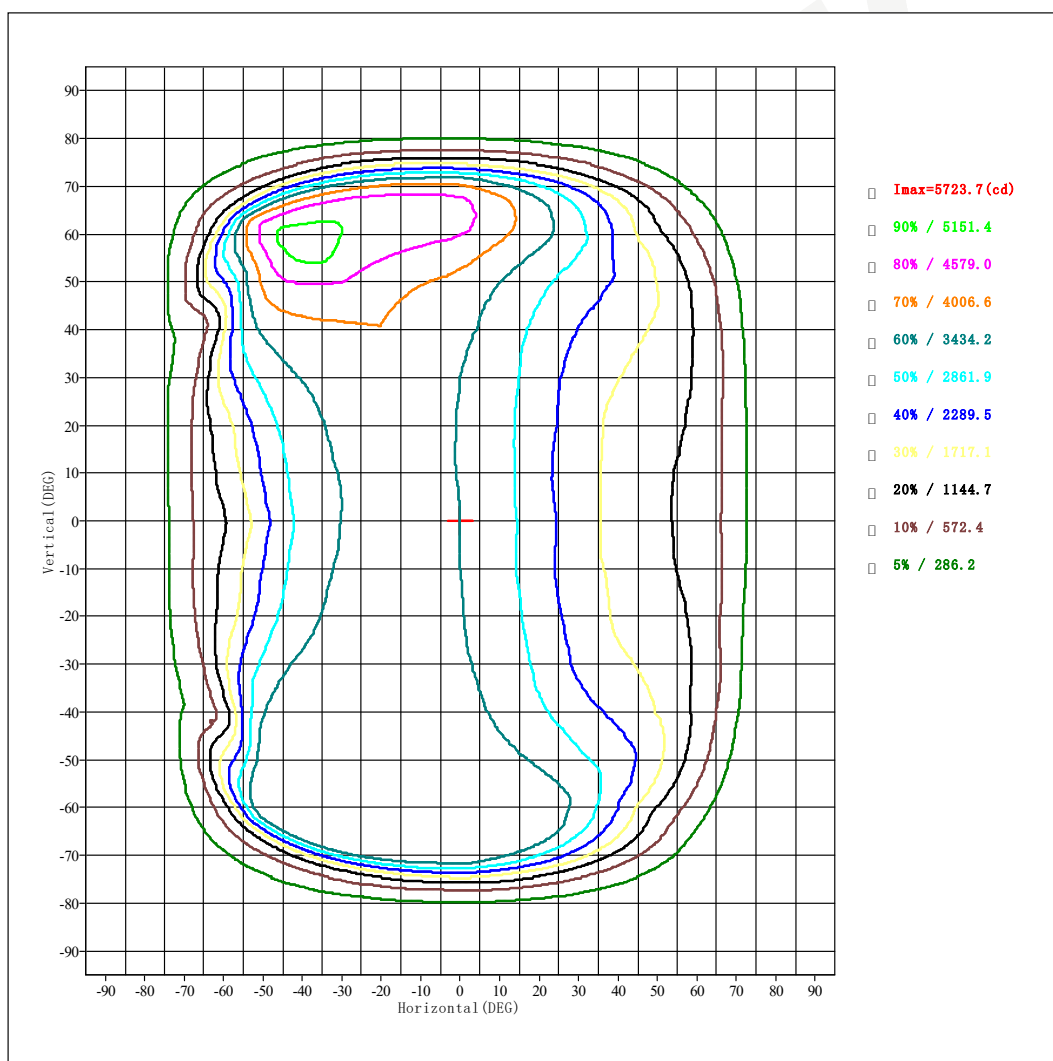
Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.76lm | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

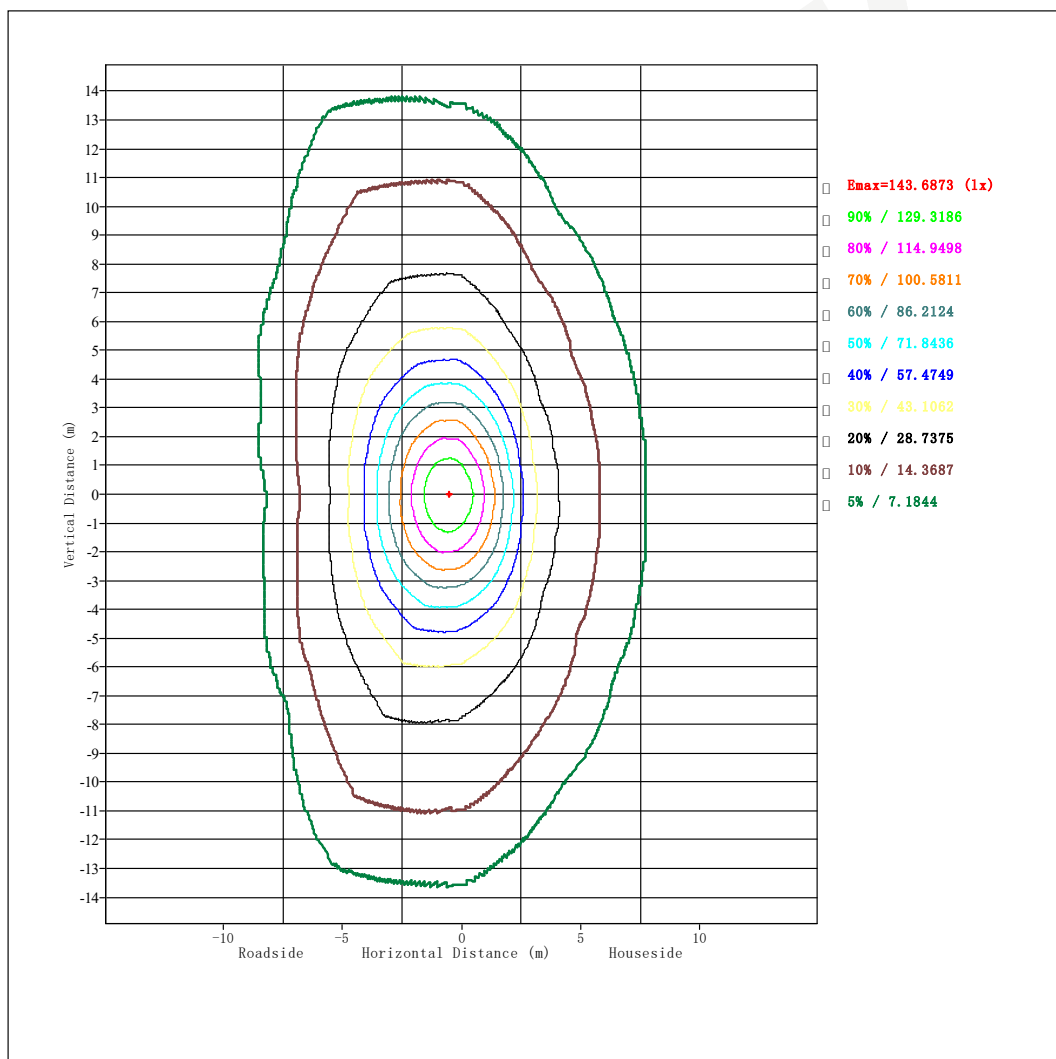
Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.76lm | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

Planar Isolux curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

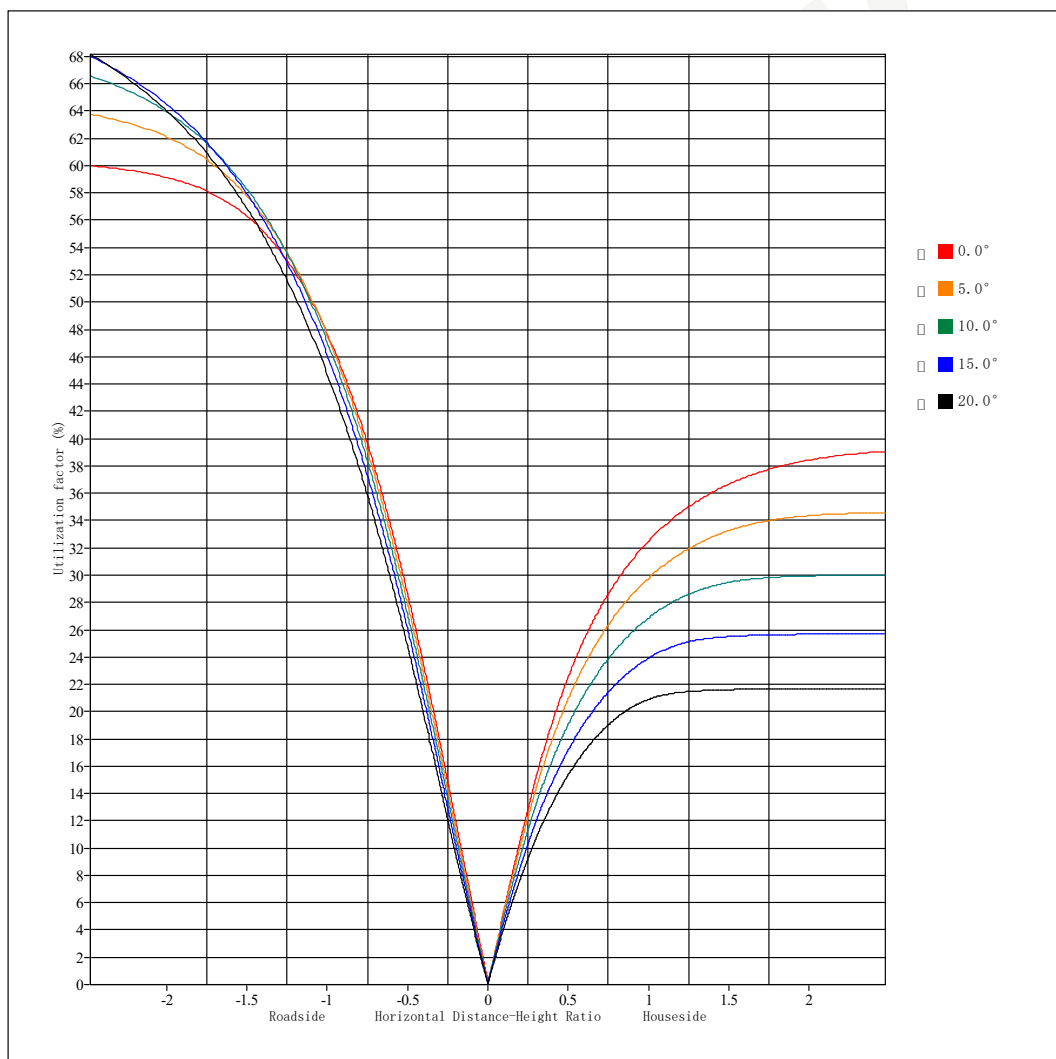
Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.76lm | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

Utilization Coefficient



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

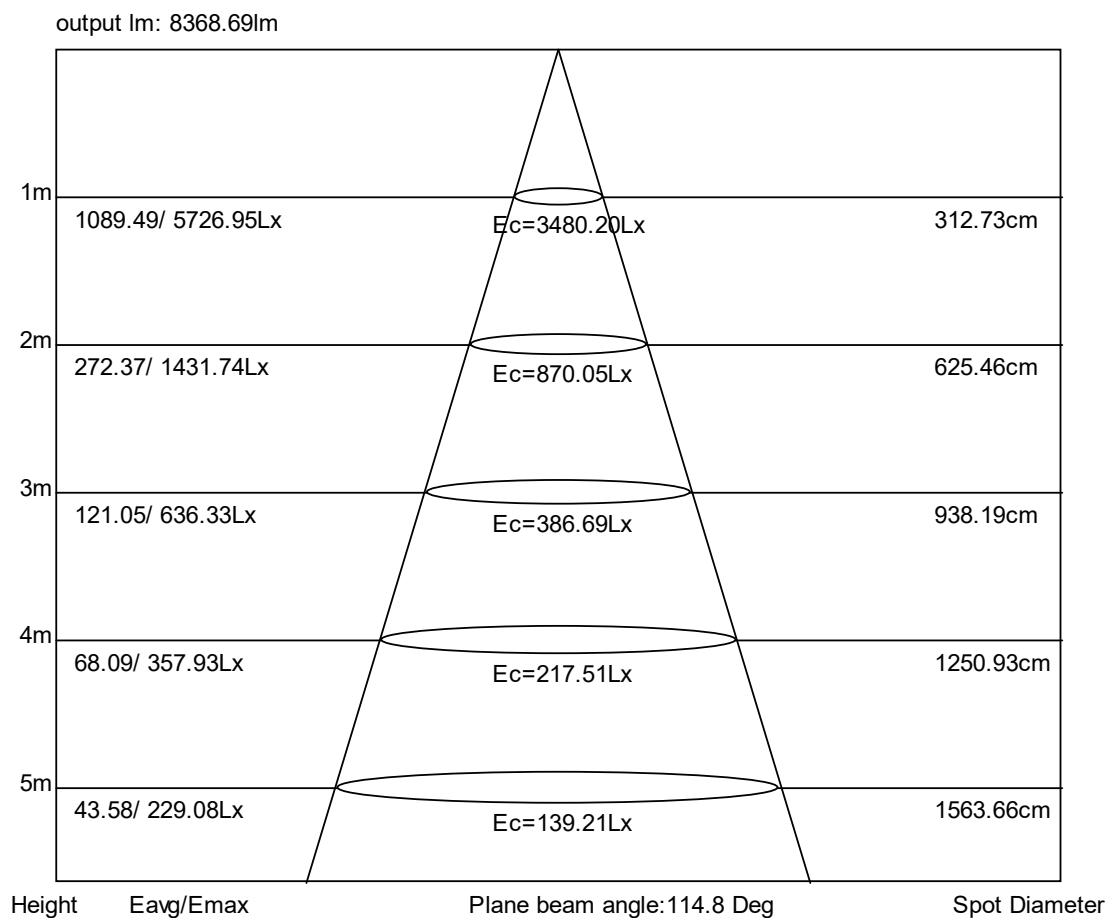
Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.76lm | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur (m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

Average Illumination



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.761m | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur(m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

Ring-shaped Flux Data Table

| Gm\C(Deg) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | Range | Ring | T(lm) |
|-----------|------|------|------|------|------|------|------|------|---------|------|-------|
| 5 | 3471 | 3592 | 3633 | 3587 | 3470 | 3369 | 3321 | 3358 | 0-5 | 83 | 83 |
| 10 | 3459 | 3651 | 3703 | 3659 | 3467 | 3220 | 3103 | 3202 | 5-10 | 246 | 329 |
| 15 | 3461 | 3689 | 3720 | 3713 | 3475 | 3064 | 2860 | 3027 | 10-15 | 403 | 732 |
| 20 | 3479 | 3709 | 3689 | 3749 | 3499 | 2906 | 2560 | 2844 | 15-20 | 549 | 1281 |
| 25 | 3505 | 3720 | 3610 | 3770 | 3529 | 2721 | 2230 | 2642 | 20-25 | 682 | 1963 |
| 30 | 3528 | 3722 | 3490 | 3777 | 3555 | 2513 | 1917 | 2411 | 25-30 | 798 | 2761 |
| 35 | 3553 | 3703 | 3317 | 3757 | 3591 | 2287 | 1697 | 2173 | 30-35 | 899 | 3660 |
| 40 | 3594 | 3671 | 3019 | 3727 | 3649 | 2061 | 1532 | 1940 | 35-40 | 986 | 4646 |
| 45 | 3681 | 3635 | 2615 | 3705 | 3764 | 1891 | 1388 | 1765 | 40-45 | 1060 | 5706 |
| 50 | 3864 | 3608 | 2068 | 3677 | 3991 | 1786 | 1251 | 1658 | 45-50 | 1126 | 6831 |
| 55 | 4189 | 3551 | 1436 | 3559 | 4337 | 1695 | 1112 | 1595 | 50-55 | 1187 | 8019 |
| 60 | 4644 | 3359 | 1011 | 3190 | 4795 | 1542 | 939 | 1508 | 55-60 | 1238 | 9257 |
| 65 | 4881 | 2608 | 798 | 1838 | 5091 | 1256 | 684 | 1298 | 60-65 | 1237 | 10494 |
| 70 | 4090 | 555 | 289 | 354 | 4087 | 725 | 275 | 892 | 65-70 | 1025 | 11518 |
| 75 | 1476 | 215 | 103 | 145 | 1476 | 192 | 132 | 255 | 70-75 | 607 | 12125 |
| 80 | 143 | 81.4 | 43.5 | 50.8 | 133 | 44.9 | 37.7 | 59.1 | 75-80 | 156 | 12281 |
| 85 | 12.4 | 13.2 | 8.15 | 5.67 | 18.2 | 7.75 | 2.1 | 14.6 | 80-85 | 23.4 | 12305 |
| 90 | 0.05 | 0.04 | 0 | 0 | 1.63 | 0.33 | 0.04 | 0.44 | 85-90 | 2.05 | 12307 |
| 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): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

Humidity(%): 60

Date: 2023/11/24

Remark:

| | | |
|--|------------------------|---|
| Measured Para U: 229.7V I: 383.0mA P: 85.95W PF: 0.975 Test LM: 12306.761m | | |
| Lamp Name: py-led597-85w | Lamp Type: street lamp | Weight(kg): |
| Lamp ID: | Lamp Spec: 85w | Shape Size: |
| Manufactory: | Sur(m ²): | Protect Angle(Deg): 146x85-TPII-M cutoff |

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 | 3471 | 3520 | 3577 | 3601 | 3621 | 3619 | 3596 | 3573 | 3514 | 3470 | 3413 | 3377 | 3323 | 3311 | 3310 | 3318 | 3364 | 3395 |
| 10.0 | 3459 | 3550 | 3632 | 3672 | 3694 | 3694 | 3674 | 3641 | 3563 | 3467 | 3347 | 3244 | 3139 | 3100 | 3096 | 3127 | 3221 | 3312 |
| 15.0 | 3461 | 3583 | 3670 | 3704 | 3717 | 3718 | 3715 | 3696 | 3616 | 3475 | 3290 | 3108 | 2937 | 2864 | 2858 | 2915 | 3065 | 3233 |
| 20.0 | 3479 | 3626 | 3695 | 3701 | 3692 | 3698 | 3724 | 3738 | 3675 | 3499 | 3249 | 2973 | 2704 | 2577 | 2567 | 2667 | 2905 | 3168 |
| 25.0 | 3505 | 3675 | 3716 | 3676 | 3629 | 3638 | 3707 | 3768 | 3733 | 3529 | 3210 | 2818 | 2441 | 2258 | 2245 | 2393 | 2731 | 3106 |
| 30.0 | 3528 | 3722 | 3728 | 3620 | 3523 | 3535 | 3656 | 3786 | 3785 | 3555 | 3163 | 2643 | 2170 | 1949 | 1936 | 2116 | 2532 | 3037 |
| 35.0 | 3553 | 3764 | 3723 | 3536 | 3374 | 3384 | 3569 | 3784 | 3843 | 3591 | 3116 | 2454 | 1944 | 1726 | 1712 | 1883 | 2326 | 2957 |
| 40.0 | 3594 | 3813 | 3709 | 3404 | 3126 | 3134 | 3434 | 3780 | 3929 | 3649 | 3077 | 2265 | 1767 | 1567 | 1552 | 1701 | 2122 | 2876 |
| 45.0 | 3681 | 3906 | 3701 | 3222 | 2786 | 2789 | 3251 | 3796 | 4074 | 3764 | 3068 | 2127 | 1630 | 1434 | 1419 | 1564 | 1967 | 2812 |
| 50.0 | 3864 | 4082 | 3719 | 2997 | 2334 | 2324 | 3005 | 3836 | 4352 | 3991 | 3103 | 2046 | 1529 | 1314 | 1300 | 1464 | 1868 | 2772 |
| 55.0 | 4189 | 4431 | 3751 | 2671 | 1775 | 1744 | 2627 | 3851 | 4823 | 4337 | 3157 | 1978 | 1429 | 1190 | 1179 | 1378 | 1808 | 2774 |
| 60.0 | 4644 | 4984 | 3725 | 2217 | 1276 | 1217 | 2070 | 3685 | 5371 | 4795 | 3174 | 1848 | 1282 | 1029 | 1021 | 1258 | 1725 | 2767 |
| 65.0 | 4881 | 5418 | 3240 | 1610 | 925 | 872 | 1267 | 2685 | 5631 | 5091 | 2835 | 1531 | 975 | 747 | 753 | 999 | 1506 | 2577 |
| 70.0 | 4090 | 5180 | 1600 | 550 | 402 | 345 | 396 | 1317 | 4674 | 4087 | 1779 | 883 | 444 | 285 | 302 | 528 | 1033 | 1855 |
| 75.0 | 1476 | 3186 | 918 | 162 | 116 | 110 | 129 | 383 | 1264 | 1476 | 552 | 242 | 132 | 118 | 129 | 169 | 346 | 772 |
| 80.0 | 143 | 389 | 156 | 70.5 | 52.8 | 49 | 54.3 | 71.9 | 146 | 133 | 67.1 | 47.7 | 34.2 | 33.7 | 36.9 | 43.9 | 69.8 | 112 |
| 85.0 | 12.4 | 35.1 | 18.7 | 16 | 12.2 | 10.1 | 10.2 | 7.02 | 12.6 | 18.2 | 7.75 | 7.42 | 4.95 | 2.7 | 3.42 | 8.38 | 13.9 | 11.6 |
| 90.0 | 0.05 | 0.36 | 0.12 | 0.11 | 0.07 | 0.04 | 0.06 | 0.09 | 0.55 | 1.63 | 1.7 | 0.63 | 0.11 | 0.02 | 0.02 | 0.15 | 0.65 | 1.22 |
| 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)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester:

Distance(m): 11.5

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 22.5

Humidity(%): 60

Date: 2023/11/24

Remark: