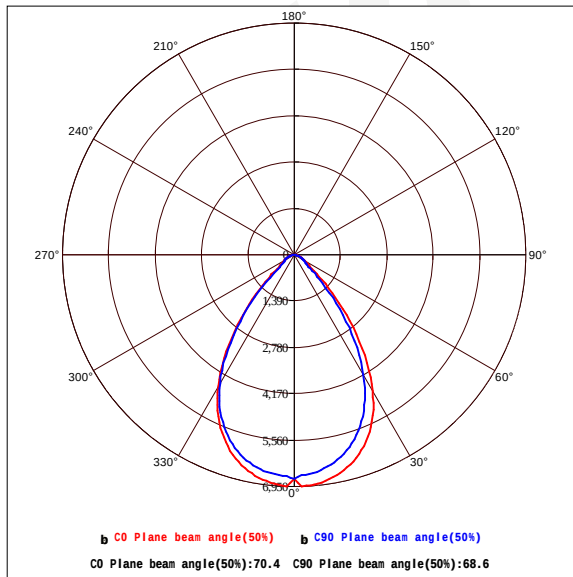


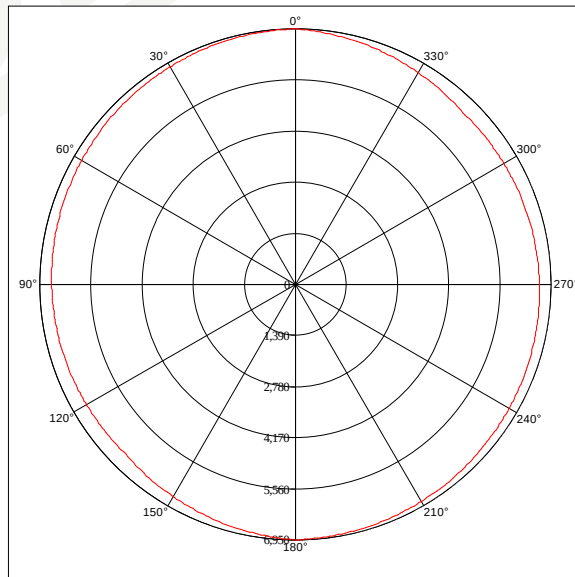
## Goniophotometer Test Report

|                                                                           |          |     |                     |          |                     |      |
|---------------------------------------------------------------------------|----------|-----|---------------------|----------|---------------------|------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |          |     |                     |          |                     |      |
| Lamp Name: LED FLOOD LIGHT                                                |          |     | Lamp Type:          |          | Weight(kg):         |      |
| Lamp ID: LPFL100A                                                         |          |     | Lamp Spec: LPFL100A |          | Shape Size:         |      |
| Manufactory: LIPER                                                        |          |     | Sur(m^2):           |          | Protect Angle(Deg): |      |
| Light Source Data                                                         |          |     | Photometric Data    |          |                     |      |
| Model                                                                     | LPFL100A |     | Peak Value(cd)      | 6949.2   | Efficiency(lm/w)    | 92.7 |
| Nominal P(w)                                                              |          | 1.0 | Position            | 0.0,1.0  | UP(C0-C180)         | 0.0  |
| Rated Volt(v)                                                             |          | 1.0 | Total Flux(lm)      | 8596.760 | Down(C0-C180)       | 51.1 |
| Rated Flux(lm)                                                            |          | 1.0 | Up Flux Rate(%)     | 0.0      | UP(C180-C360)       | 0.0  |
| Illuminant QTY                                                            |          | 1   | Dw Flux Rate(%)     | 100.0    | Down(C180-C360)     | 48.9 |

Planar Intensity Distribution Curve



Peak Point Conical surface Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

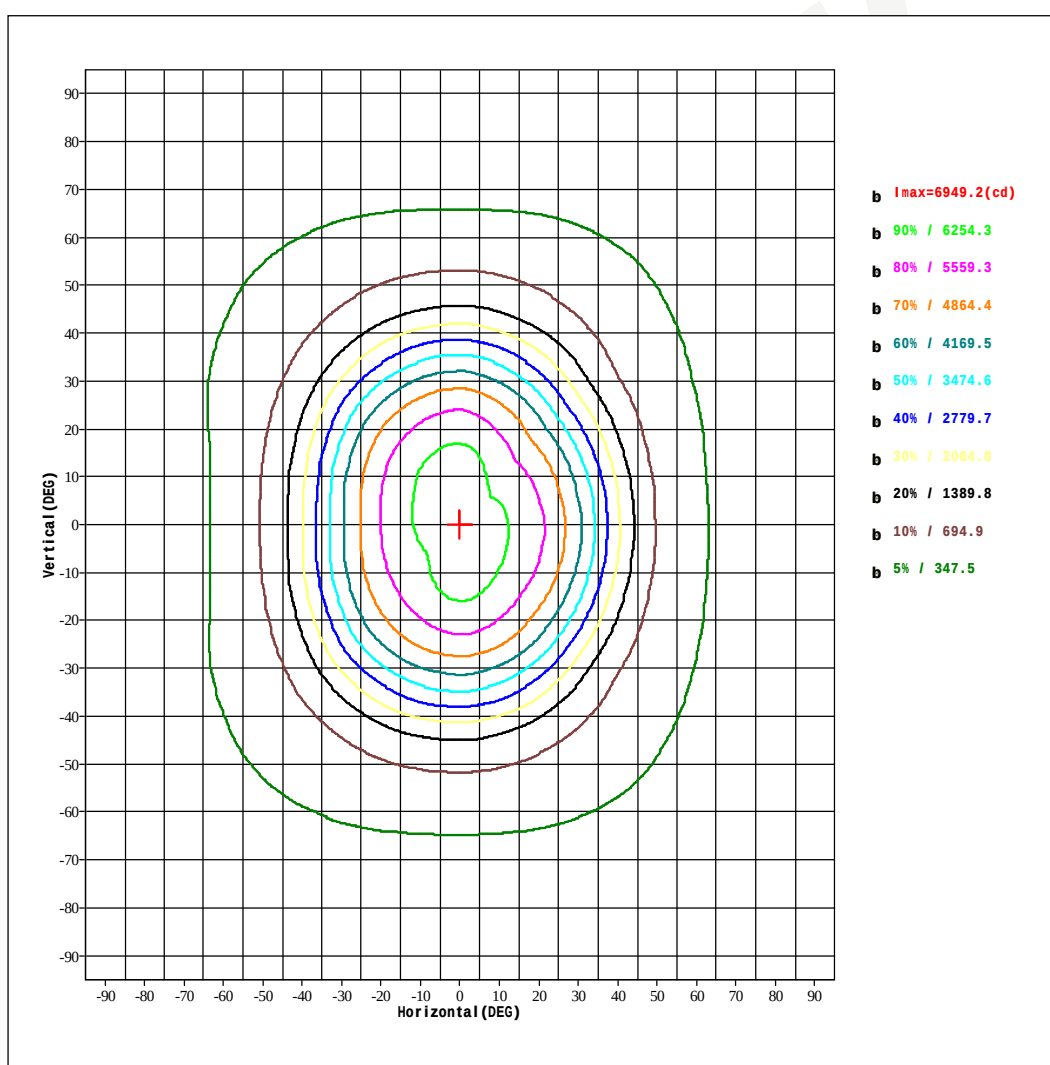
Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                     |                     |
|---------------------------------------------------------------------------|---------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                     |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:          | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A | Shape Size:         |
| Manufactory: LIPER                                                        | Sur(m^2):           | Protect Angle(Deg): |

### Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

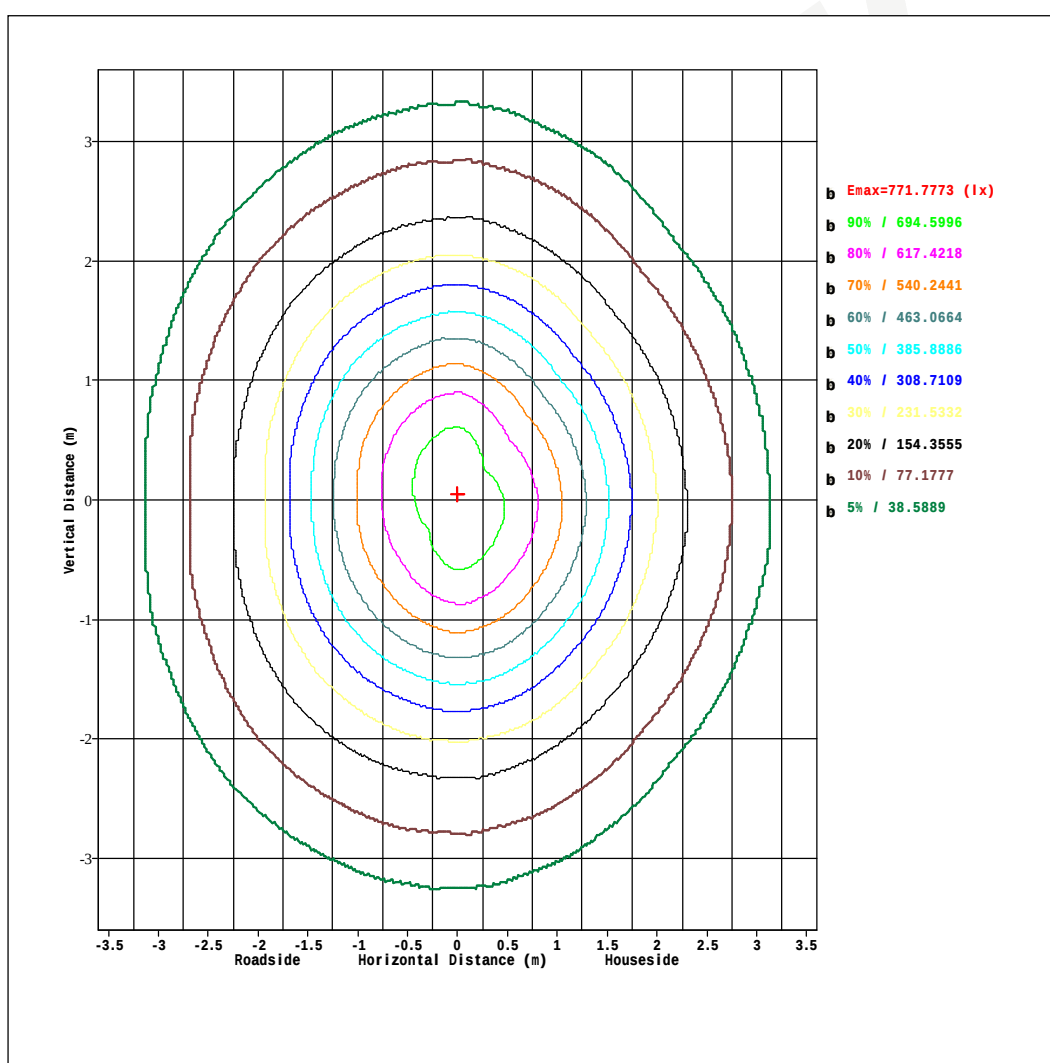
Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                     |                     |
|---------------------------------------------------------------------------|---------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                     |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:          | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A | Shape Size:         |
| Manufactory: LIPER                                                        | Sur(m^2):           | Protect Angle(Deg): |

Planar Isolux curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

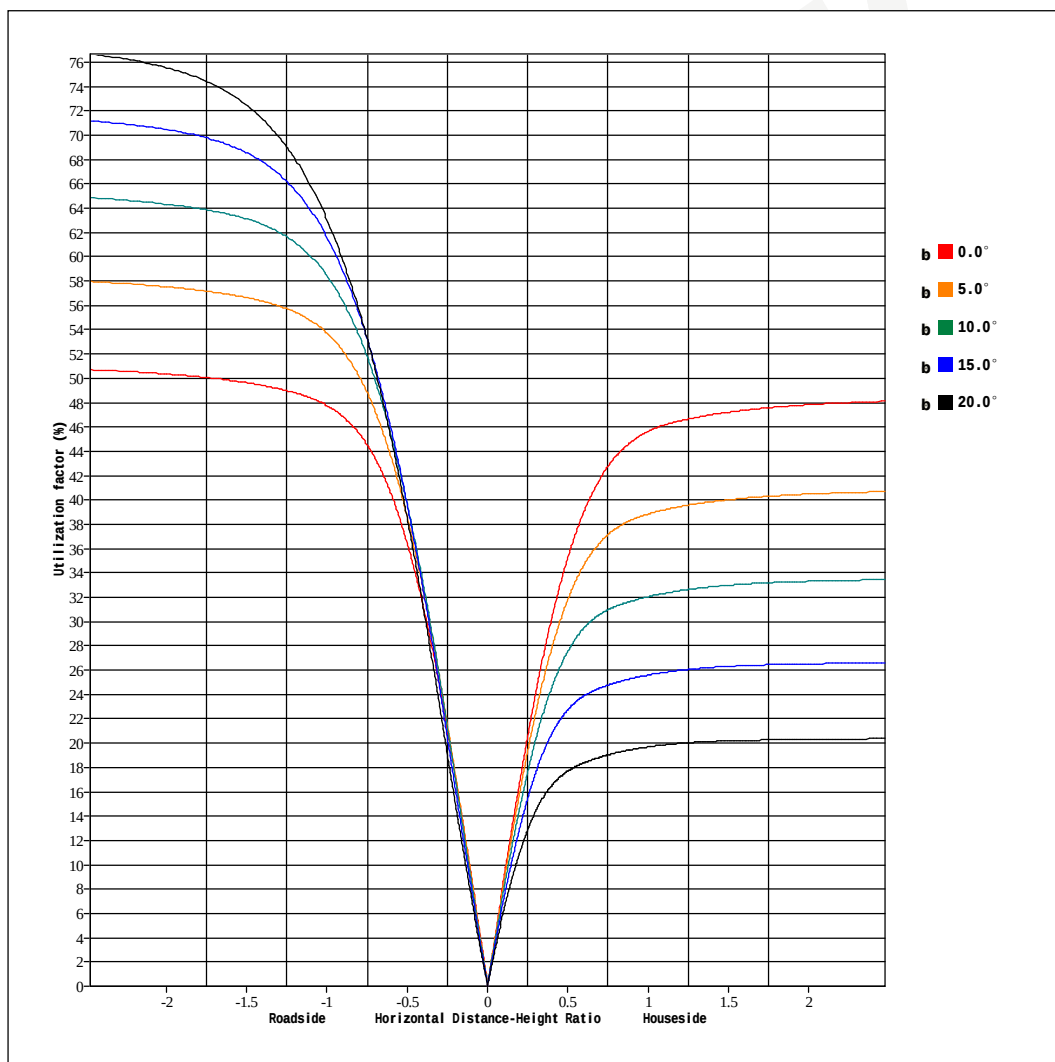
Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                     |                     |
|---------------------------------------------------------------------------|---------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                     |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:          | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A | Shape Size:         |
| Manufactory: LIPER                                                        | Sur(m^2):           | Protect Angle(Deg): |

### Utilization Coefficient



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

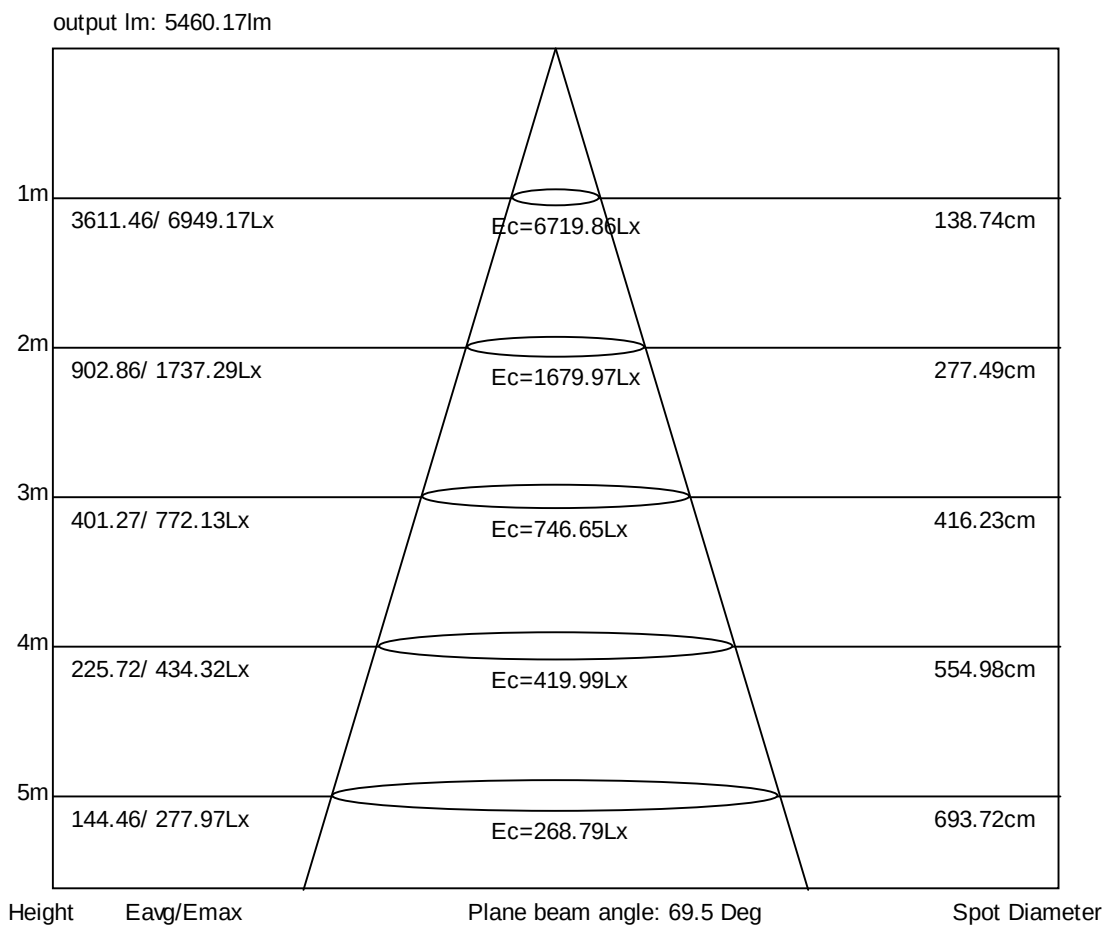
Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                     |                     |
|---------------------------------------------------------------------------|---------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                     |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:          | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A | Shape Size:         |
| Manufactory: LIPER                                                        | Sur(m^2):           | Protect Angle(Deg): |

**Average Illumination**



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                     |                     |
|---------------------------------------------------------------------------|---------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                     |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:          | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A | Shape Size:         |
| Manufactory: LIPER                                                        | 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         | 6908 | 6733 | 6558 | 6483 | 6880 | 6697 | 6605 | 6457 | 0-5     | 160  | 160   |
| 10        | 6755 | 6576 | 6363 | 6335 | 6701 | 6503 | 6456 | 6280 | 5-10    | 471  | 631   |
| 15        | 6481 | 6300 | 6043 | 6066 | 6395 | 6171 | 6170 | 5970 | 10-15   | 753  | 1384  |
| 20        | 6054 | 5879 | 5563 | 5668 | 5934 | 5699 | 5742 | 5511 | 15-20   | 986  | 2370  |
| 25        | 5450 | 5293 | 4918 | 5120 | 5289 | 5061 | 5153 | 4868 | 20-25   | 1144 | 3514  |
| 30        | 4620 | 4511 | 4068 | 4394 | 4449 | 4200 | 4357 | 4041 | 25-30   | 1200 | 4714  |
| 35        | 3586 | 3524 | 3059 | 3470 | 3446 | 3127 | 3358 | 2998 | 30-35   | 1127 | 5841  |
| 40        | 2501 | 2451 | 2027 | 2449 | 2364 | 2006 | 2247 | 1954 | 35-40   | 925  | 6766  |
| 45        | 1524 | 1473 | 1152 | 1482 | 1395 | 1040 | 1253 | 1056 | 40-45   | 647  | 7413  |
| 50        | 833  | 754  | 603  | 744  | 733  | 500  | 531  | 523  | 45-50   | 378  | 7791  |
| 55        | 498  | 456  | 417  | 431  | 438  | 363  | 379  | 362  | 50-55   | 221  | 8012  |
| 60        | 374  | 351  | 334  | 330  | 333  | 287  | 310  | 284  | 55-60   | 170  | 8182  |
| 65        | 281  | 273  | 264  | 256  | 256  | 218  | 245  | 208  | 60-65   | 139  | 8322  |
| 70        | 214  | 204  | 205  | 189  | 190  | 165  | 179  | 143  | 65-70   | 110  | 8432  |
| 75        | 132  | 163  | 83.4 | 137  | 115  | 98   | 103  | 88.6 | 70-75   | 78.3 | 8510  |
| 80        | 69.6 | 98.9 | 49.6 | 82.5 | 54.4 | 41.9 | 49.8 | 41.2 | 75-80   | 46.5 | 8557  |
| 85        | 34.1 | 43.6 | 31.5 | 37.5 | 32.2 | 28.9 | 29.9 | 28.4 | 80-85   | 23.9 | 8580  |
| 90        | 28.5 | 28.2 | 27.7 | 26.9 | 28.6 | 28.4 | 27.8 | 27.9 | 85-90   | 16.3 | 8597  |
| 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): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2024-3-25

Remark:

|                                                                           |                       |                     |
|---------------------------------------------------------------------------|-----------------------|---------------------|
| Measured Para U: 234.3V I: 653.0mA P: 92.70W PF: 0.605 Test LM: 8596.76lm |                       |                     |
| Lamp Name: LED FLOOD LIGHT                                                | Lamp Type:            | Weight(kg):         |
| Lamp ID: LPFL100A                                                         | Lamp Spec: LPFL100A   | Shape Size:         |
| Manufactory: LIPER                                                        | Sur(m <sup>2</sup> ): | 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       | 6908 | 6832 | 6752 | 6676 | 6596 | 6542 | 6507 | 6526 | 6706 | 6880 | 6800 | 6717 | 6667 | 6626 | 6573 | 6506 | 6507 | 6711 |
| 10.0      | 6755 | 6677 | 6596 | 6506 | 6410 | 6357 | 6344 | 6375 | 6541 | 6701 | 6615 | 6525 | 6488 | 6466 | 6417 | 6338 | 6332 | 6547 |
| 15.0      | 6481 | 6402 | 6319 | 6215 | 6099 | 6048 | 6058 | 6102 | 6251 | 6395 | 6297 | 6195 | 6171 | 6170 | 6126 | 6035 | 6025 | 6257 |
| 20.0      | 6054 | 5977 | 5898 | 5776 | 5633 | 5586 | 5633 | 5697 | 5818 | 5934 | 5831 | 5724 | 5713 | 5733 | 5692 | 5587 | 5570 | 5816 |
| 25.0      | 5450 | 5381 | 5310 | 5170 | 5000 | 4962 | 5054 | 5138 | 5215 | 5289 | 5189 | 5086 | 5091 | 5133 | 5090 | 4961 | 4932 | 5195 |
| 30.0      | 4620 | 4573 | 4523 | 4366 | 4165 | 4139 | 4287 | 4400 | 4425 | 4449 | 4340 | 4228 | 4252 | 4323 | 4288 | 4145 | 4105 | 4367 |
| 35.0      | 3586 | 3559 | 3530 | 3371 | 3161 | 3149 | 3335 | 3467 | 3456 | 3446 | 3306 | 3162 | 3203 | 3307 | 3279 | 3116 | 3063 | 3329 |
| 40.0      | 2501 | 2479 | 2457 | 2312 | 2120 | 2120 | 2311 | 2440 | 2402 | 2364 | 2207 | 2045 | 2085 | 2194 | 2183 | 2050 | 2014 | 2262 |
| 45.0      | 1524 | 1502 | 1478 | 1367 | 1222 | 1224 | 1373 | 1472 | 1433 | 1395 | 1240 | 1079 | 1110 | 1206 | 1210 | 1120 | 1107 | 1319 |
| 50.0      | 833  | 799  | 763  | 705  | 636  | 634  | 698  | 743  | 738  | 733  | 631  | 526  | 510  | 524  | 529  | 525  | 557  | 697  |
| 55.0      | 498  | 480  | 461  | 443  | 426  | 420  | 426  | 432  | 435  | 438  | 405  | 371  | 368  | 375  | 375  | 367  | 377  | 439  |
| 60.0      | 374  | 364  | 354  | 345  | 338  | 333  | 331  | 330  | 332  | 333  | 312  | 292  | 294  | 305  | 304  | 293  | 294  | 335  |
| 65.0      | 281  | 278  | 274  | 270  | 266  | 262  | 259  | 256  | 256  | 256  | 239  | 222  | 227  | 239  | 237  | 220  | 216  | 249  |
| 70.0      | 214  | 209  | 205  | 204  | 205  | 202  | 194  | 189  | 190  | 190  | 179  | 168  | 170  | 176  | 171  | 155  | 150  | 183  |
| 75.0      | 132  | 145  | 160  | 137  | 101  | 95   | 119  | 134  | 125  | 115  | 108  | 99.9 | 99.7 | 102  | 99.9 | 93.3 | 93.3 | 113  |
| 80.0      | 69.6 | 82.4 | 95.7 | 82.7 | 60.4 | 56.8 | 71.7 | 79.4 | 66.7 | 54.4 | 48.9 | 43.2 | 44.5 | 48.1 | 47.9 | 44   | 44.3 | 57.1 |
| 85.0      | 34.1 | 38.2 | 42.5 | 39.6 | 34.2 | 32.8 | 35.5 | 36.9 | 34.5 | 32.2 | 30.7 | 29.2 | 29.2 | 29.7 | 29.6 | 28.9 | 29   | 31.6 |
| 90.0      | 28.5 | 28.4 | 28.3 | 28.1 | 27.8 | 27.5 | 27.1 | 27.1 | 27.9 | 28.6 | 28.5 | 28.4 | 28.2 | 27.9 | 27.8 | 27.8 | 27.9 | 28.2 |
| 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): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2024-3-25

Remark: