

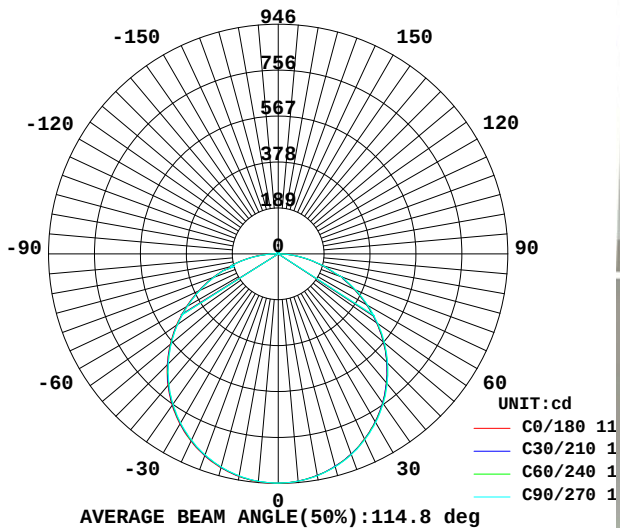
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                                  |              |                       |             |
| Address:                                       |              |                       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 | SERIAL No.: |

|                  |        |                    |        |                  |       |
|------------------|--------|--------------------|--------|------------------|-------|
| DATA OF LAMP     |        | Imax(cd)           | 945.5  | S/MH(C0/180)     | 1.27  |
| MODEL            |        | EFFICIENCY(%)      | 100.0  | S/MH(C90/270)    | 1.27  |
| NOMINAL POWER(W) | 28     | TOTAL FLUX(lm)     | 2823.0 | Voltage(V)       | 220.3 |
| RATED VOLTAGE(V) | 220    | EFFICIENCY(lm/W)   | 100.0  | Current(A)       | 0.137 |
| NOMINAL FLUX(lm) | 2823.0 | $\eta$ up(%)       | 1.6    | Power(W)         | 28.24 |
| LAMPS QUANTITY   | 1      | $\eta$ down(%)     | 98.4   | Power Factor(PF) | 0.930 |
| TEST VOLTAGE(V)  | 220.4  | Effective Flux(lm) | 2823.0 | EEI              | 0.136 |

## LUMINOUS INTENSITY DISTRIBUTION



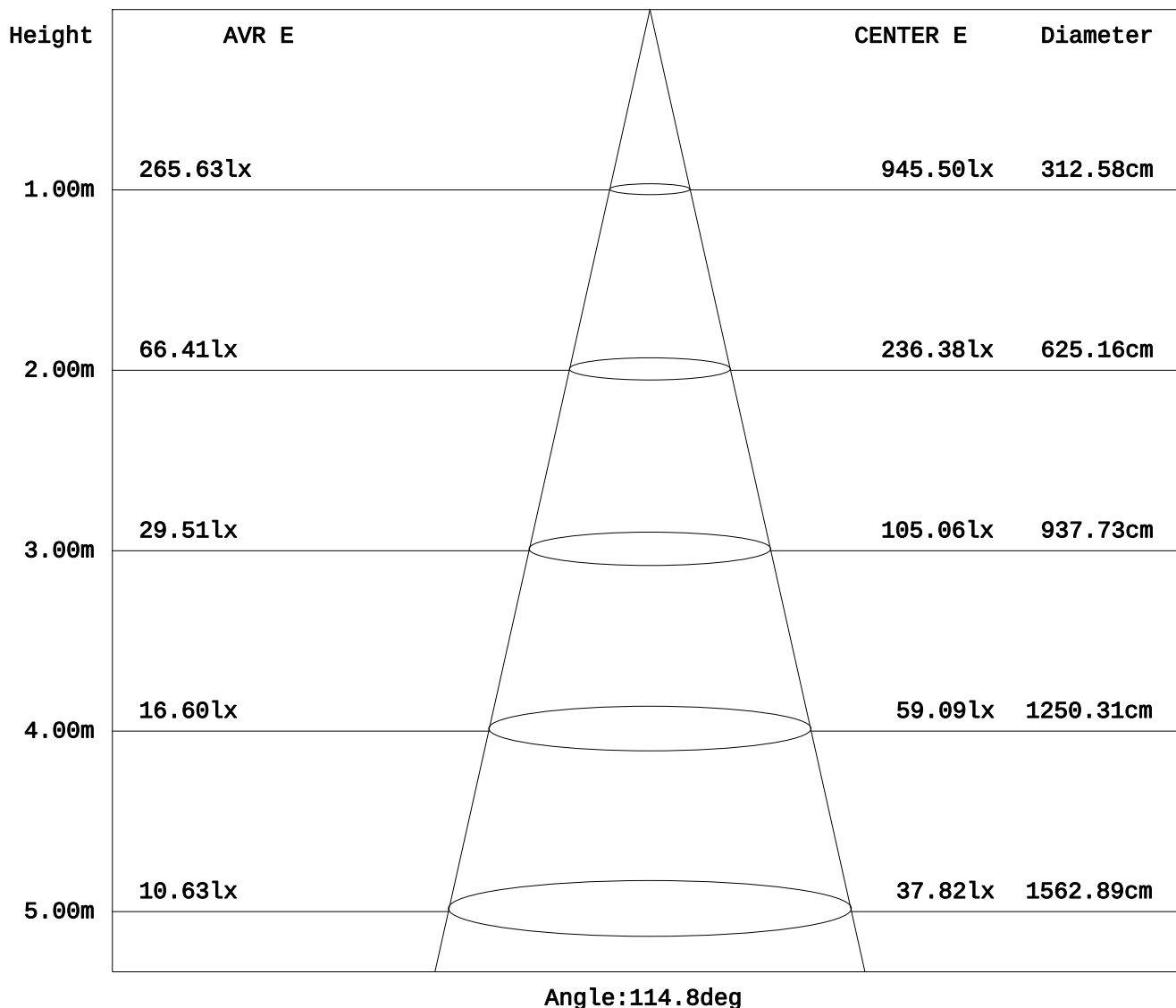
Test System:  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 06-18-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: 83Ra. Flickering 1.7%

## AVERAGE AND CENTER E Figure

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                                  |              |                       |             |
| Address:                                       |              |                       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              | TYPE:                 | WEIGHT:     |
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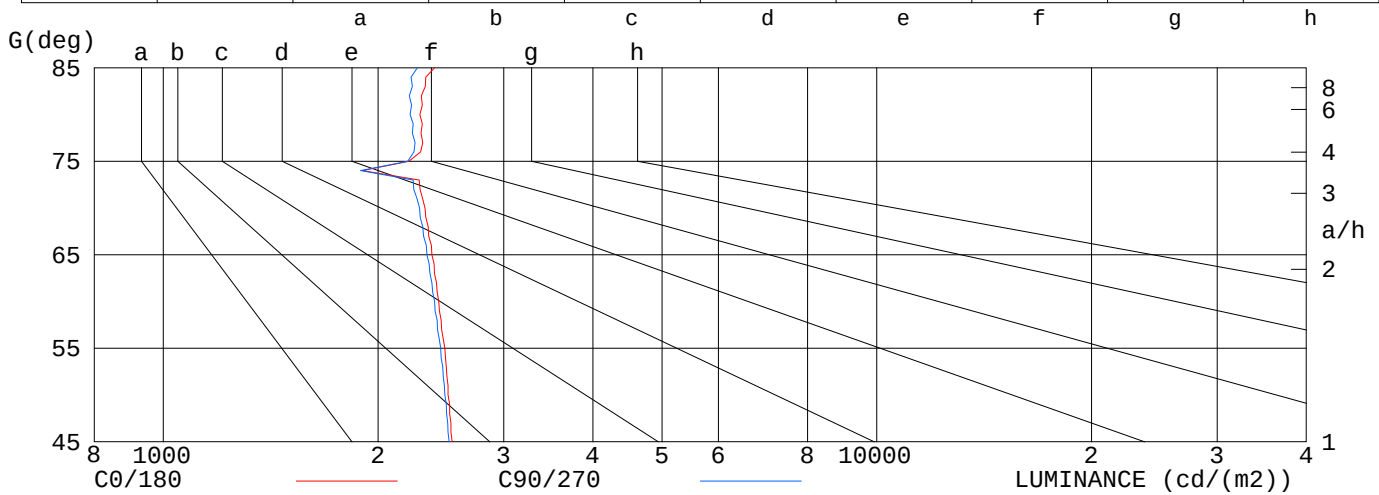
## LUMINANCE LIMITATION CURVES

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                                  |              |                       |             |
| Address:                                       |              |                       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 | SERIAL No.: |

## LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) |      |      |       |       |       |       |       |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A     | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50  | B     |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85  | C     |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20  | D     |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55  | E     |                  |      |      |       | 2000  | 1000  | 500   | <=300 |



## LUMINANCE cd/m²

| G(deg) | C0/180 | C90/270 |
|--------|--------|---------|
| 85     | 2400   | 2269    |
| 80     | 2289   | 2217    |
| 75     | 2209   | 2200    |
| 70     | 2327   | 2286    |
| 65     | 2379   | 2341    |
| 60     | 2433   | 2401    |
| 55     | 2481   | 2448    |
| 50     | 2507   | 2481    |
| 45     | 2540   | 2516    |

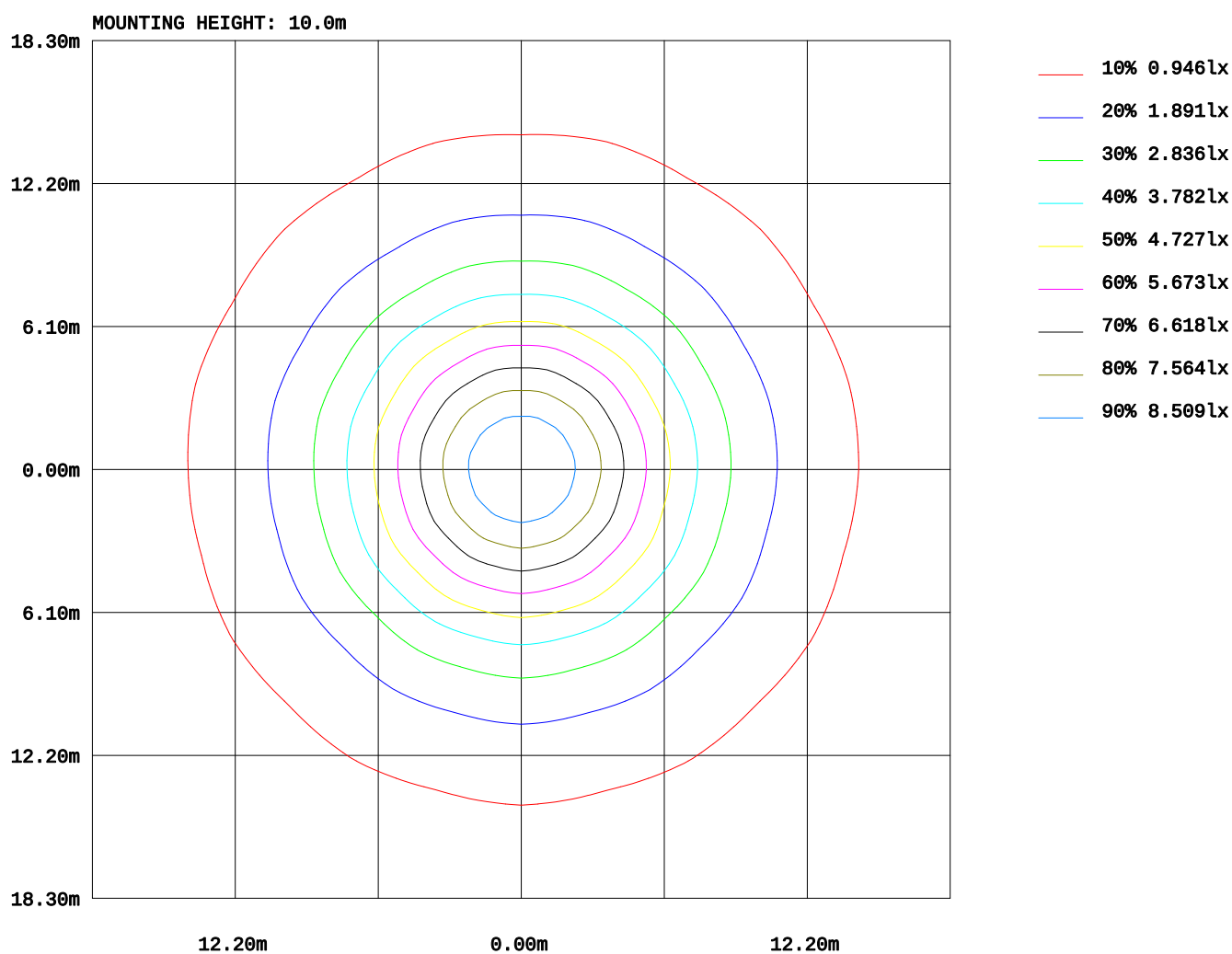
Test System:  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 06-18-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: 83Ra. Flickering 1.7%

## ISOLUX DIAGRAM

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                                  |              |                       |             |
| Address:                                       |              |                       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 | SERIAL No.: |



Test System:  
Temperature: 25.3°C  
Operators:  
Test Date: 06-18-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
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## UGR Table

Report number:

|                                                |              |                       |       |             |
|------------------------------------------------|--------------|-----------------------|-------|-------------|
| MANUFACTURER:                                  |              |                       |       |             |
| Address:                                       |              |                       |       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              |                       | TYPE: | WEIGHT:     |
| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 |       | SERIAL No.: |

|                 |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------------------|------|------|------|------|----------------|------|------|------|------|
| ceiling/cavity  | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| walls           | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane   | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| x = 2H y = 2H   | 15.9             | 17.4 | 16.2 | 17.6 | 17.9 | 15.8           | 17.3 | 16.1 | 17.6 | 17.8 |
| 3H              | 17.5             | 18.9 | 17.8 | 19.1 | 19.4 | 17.4           | 18.8 | 17.7 | 19.0 | 19.3 |
| 4H              | 18.1             | 19.4 | 18.4 | 19.7 | 20.0 | 18.0           | 19.3 | 18.3 | 19.6 | 19.9 |
| 6H              | 18.7             | 19.9 | 19.0 | 20.2 | 20.5 | 18.5           | 19.8 | 18.9 | 20.1 | 20.4 |
| 8H              | 18.9             | 20.1 | 19.2 | 20.4 | 20.7 | 18.8           | 20.0 | 19.1 | 20.3 | 20.6 |
| 12H             | 19.1             | 20.2 | 19.4 | 20.5 | 20.9 | 18.9           | 20.1 | 19.3 | 20.4 | 20.8 |
| 4H 2H           | 16.5             | 17.8 | 16.8 | 18.1 | 18.4 | 16.4           | 17.8 | 16.8 | 18.1 | 18.3 |
| 3H              | 18.3             | 19.4 | 18.7 | 19.8 | 20.1 | 18.2           | 19.4 | 18.6 | 19.7 | 20.0 |
| 4H              | 19.0             | 20.1 | 19.4 | 20.5 | 20.8 | 19.0           | 20.0 | 19.4 | 20.4 | 20.7 |
| 6H              | 19.7             | 20.6 | 20.1 | 21.0 | 21.4 | 19.6           | 20.5 | 20.0 | 20.9 | 21.3 |
| 8H              | 20.0             | 20.8 | 20.4 | 21.2 | 21.7 | 19.8           | 20.7 | 20.3 | 21.1 | 21.5 |
| 12H             | 20.2             | 21.0 | 20.6 | 21.4 | 21.8 | 20.0           | 20.9 | 20.5 | 21.3 | 21.7 |
| 8H 4H           | 19.3             | 20.2 | 19.8 | 20.6 | 21.0 | 19.3           | 20.1 | 19.7 | 20.5 | 21.0 |
| 6H              | 20.2             | 20.9 | 20.6 | 21.3 | 21.8 | 20.1           | 20.8 | 20.6 | 21.3 | 21.7 |
| 8H              | 20.5             | 21.2 | 21.0 | 21.6 | 22.1 | 20.4           | 21.1 | 20.9 | 21.5 | 22.0 |
| 12H             | 20.8             | 21.4 | 21.3 | 21.9 | 22.4 | 20.7           | 21.3 | 21.2 | 21.7 | 22.3 |
| 12H 4H          | 19.3             | 20.2 | 19.8 | 20.6 | 21.0 | 19.3           | 20.1 | 19.7 | 20.5 | 20.9 |
| 6H              | 20.2             | 20.9 | 20.7 | 21.4 | 21.8 | 20.2           | 20.8 | 20.6 | 21.3 | 21.8 |
| 8H              | 20.7             | 21.2 | 21.2 | 21.7 | 22.2 | 20.6           | 21.1 | 21.1 | 21.6 | 22.1 |

Variations with the observer position at spacings:

|          |               |               |
|----------|---------------|---------------|
| S = 1.0H | + 0.1 / - 0.1 | + 0.2 / - 0.1 |
| 1.5H     | + 0.2 / - 0.2 | + 0.1 / - 0.2 |
| 2.0H     | + 0.2 / - 0.3 | + 0.2 / - 0.3 |

CIE Pub.117 Corrected 2823 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

Test System:  
 Temperature:25.3'C  
 Operators:  
 Test Date:06-18-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
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## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                                  |              |                       |             |
| Address:                                       |              |                       |             |
| NAME: Office Comfort 595x595x60 29W 4000K Opal |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 | SERIAL No.: |

UNIT: cd

| C(deg)<br>γ (deg) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0               | 946  | 944  | 944  | 944  | 944  | 944  | 944  | 943  | 943  | 943  | 944  | 944  | 946  | 944  | 944  |
| 5.0               | 942  | 939  | 941  | 940  | 940  | 939  | 940  | 938  | 939  | 937  | 939  | 937  | 940  | 941  | 939  |
| 10.0              | 931  | 928  | 929  | 926  | 929  | 925  | 928  | 924  | 927  | 923  | 927  | 923  | 927  | 929  | 926  |
| 15.0              | 913  | 906  | 911  | 904  | 909  | 904  | 908  | 902  | 907  | 901  | 907  | 902  | 906  | 910  | 905  |
| 20.0              | 885  | 879  | 883  | 877  | 882  | 875  | 880  | 874  | 879  | 872  | 879  | 873  | 878  | 883  | 878  |
| 25.0              | 850  | 842  | 848  | 840  | 847  | 839  | 845  | 837  | 844  | 836  | 844  | 837  | 841  | 848  | 842  |
| 30.0              | 810  | 799  | 808  | 796  | 806  | 795  | 804  | 793  | 802  | 792  | 802  | 793  | 798  | 808  | 798  |
| 35.0              | 761  | 750  | 759  | 748  | 757  | 745  | 755  | 744  | 753  | 742  | 753  | 743  | 749  | 759  | 749  |
| 40.0              | 706  | 693  | 704  | 691  | 702  | 689  | 700  | 687  | 698  | 685  | 698  | 686  | 693  | 704  | 693  |
| 45.0              | 647  | 632  | 644  | 631  | 642  | 628  | 640  | 626  | 638  | 625  | 638  | 625  | 631  | 645  | 632  |
| 50.0              | 580  | 565  | 578  | 563  | 576  | 561  | 574  | 559  | 572  | 557  | 572  | 558  | 565  | 579  | 566  |
| 55.0              | 512  | 493  | 509  | 491  | 508  | 489  | 505  | 487  | 503  | 486  | 503  | 486  | 495  | 509  | 495  |
| 60.0              | 438  | 420  | 436  | 418  | 434  | 416  | 432  | 415  | 430  | 413  | 430  | 413  | 420  | 438  | 421  |
| 65.0              | 362  | 344  | 359  | 342  | 358  | 340  | 356  | 338  | 355  | 337  | 354  | 337  | 346  | 362  | 346  |
| 70.0              | 287  | 280  | 284  | 257  | 283  | 256  | 282  | 255  | 280  | 253  | 279  | 253  | 280  | 286  | 281  |
| 75.0              | 206  | 186  | 206  | 184  | 206  | 183  | 205  | 182  | 205  | 180  | 205  | 180  | 187  | 204  | 188  |
| 80.0              | 143  | 115  | 141  | 113  | 140  | 112  | 139  | 111  | 137  | 110  | 136  | 109  | 117  | 145  | 118  |
| 85.0              | 75.3 | 49.2 | 73.5 | 47.7 | 72.1 | 46.9 | 71.2 | 45.8 | 69.8 | 44.7 | 69.0 | 44.7 | 52.2 | 75.4 | 52.3 |
| 90.0              | 14.8 | 2.70 | 13.0 | 2.60 | 12.5 | 2.50 | 12.8 | 2.60 | 12.8 | 2.60 | 12.7 | 2.60 | 3.40 | 15.4 | 2.80 |
| 95.0              | 9.50 | 3.10 | 9.30 | 3.00 | 9.30 | 3.00 | 9.30 | 3.10 | 9.30 | 3.10 | 9.30 | 3.00 | 3.50 | 9.50 | 3.10 |
| 100.0             | 8.80 | 3.50 | 8.60 | 3.50 | 8.60 | 3.50 | 8.70 | 3.50 | 8.60 | 3.50 | 8.60 | 3.50 | 4.00 | 8.80 | 3.60 |
| 105.0             | 8.40 | 4.00 | 8.20 | 3.90 | 8.29 | 3.90 | 8.29 | 4.00 | 8.29 | 3.90 | 8.29 | 4.00 | 4.50 | 8.50 | 4.10 |
| 110.0             | 8.29 | 4.40 | 8.10 | 4.40 | 8.10 | 4.40 | 8.10 | 4.40 | 8.10 | 4.40 | 8.10 | 4.40 | 5.00 | 8.29 | 4.50 |
| 115.0             | 8.29 | 4.90 | 8.00 | 4.80 | 8.00 | 4.80 | 8.10 | 4.90 | 8.10 | 4.90 | 8.10 | 4.90 | 5.50 | 8.29 | 4.90 |
| 120.0             | 8.29 | 5.30 | 8.10 | 5.20 | 8.10 | 5.30 | 8.20 | 5.30 | 8.10 | 5.30 | 8.10 | 5.30 | 6.00 | 8.29 | 5.40 |
| 125.0             | 8.40 | 5.80 | 8.20 | 5.60 | 8.20 | 5.70 | 8.29 | 5.70 | 8.20 | 5.70 | 8.20 | 5.80 | 6.40 | 8.40 | 5.80 |
| 130.0             | 8.50 | 6.10 | 8.29 | 6.00 | 8.20 | 6.10 | 8.40 | 6.10 | 8.29 | 6.10 | 8.29 | 6.20 | 6.90 | 8.50 | 6.20 |
| 135.0             | 8.60 | 6.50 | 8.40 | 6.40 | 8.40 | 6.50 | 8.50 | 6.40 | 8.40 | 6.50 | 8.50 | 6.50 | 7.30 | 8.70 | 6.60 |
| 140.0             | 8.80 | 6.90 | 8.50 | 6.80 | 8.60 | 6.90 | 8.70 | 6.80 | 8.50 | 6.80 | 8.60 | 6.90 | 7.60 | 8.80 | 7.00 |
| 145.0             | 8.90 | 7.20 | 8.70 | 7.10 | 8.70 | 7.20 | 8.80 | 7.20 | 8.70 | 7.20 | 8.80 | 7.30 | 7.90 | 9.00 | 7.30 |
| 150.0             | 9.09 | 7.50 | 8.80 | 7.40 | 8.90 | 7.60 | 8.90 | 7.50 | 8.90 | 7.40 | 9.00 | 7.60 | 8.20 | 9.20 | 7.60 |
| 155.0             | 9.20 | 7.90 | 9.00 | 7.70 | 9.00 | 7.90 | 9.09 | 7.80 | 9.00 | 7.80 | 9.09 | 7.90 | 8.50 | 9.30 | 7.90 |
| 160.0             | 9.30 | 8.10 | 9.09 | 8.00 | 9.20 | 8.10 | 9.20 | 8.10 | 9.20 | 8.00 | 9.20 | 8.20 | 8.80 | 9.40 | 8.10 |
| 165.0             | 9.40 | 8.29 | 9.30 | 8.29 | 9.20 | 8.29 | 9.30 | 8.29 | 9.30 | 8.20 | 9.30 | 8.29 | 9.00 | 9.40 | 8.29 |
| 170.0             | 9.50 | 8.50 | 9.30 | 8.50 | 9.30 | 8.50 | 9.40 | 8.40 | 9.40 | 8.50 | 9.30 | 8.40 | 9.20 | 9.50 | 8.50 |
| 175.0             | 9.60 | 8.70 | 9.40 | 8.60 | 9.40 | 8.60 | 9.50 | 8.50 | 9.40 | 8.60 | 9.30 | 8.50 | 9.30 | 9.40 | 8.60 |
| 180.0             | 9.50 | 8.90 | 9.30 | 8.80 | 9.30 | 8.80 | 9.40 | 8.80 | 9.30 | 8.90 | 9.30 | 8.70 | 9.70 | 9.30 | 8.80 |

Test System:  
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 Operators:  
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 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: 83Ra. Flickering 1.7%

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                                |              |                       |             |
|------------------------------------------------|--------------|-----------------------|-------------|
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| Address:                                       |              |                       |             |
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| SPECIFICATION:                                 | CCT(K): 4187 | DIMENSION: 595x595x60 | SERIAL No.: |

UNIT: cd

| C(deg)<br>γ (deg) | 225  | 240  | 255  | 270  | 285  | 300  | 315  | 330  | 345  |
|-------------------|------|------|------|------|------|------|------|------|------|
| 0.0               | 944  | 944  | 944  | 944  | 943  | 943  | 943  | 944  | 944  |
| 5.0               | 941  | 939  | 941  | 939  | 941  | 940  | 941  | 940  | 941  |
| 10.0              | 930  | 927  | 930  | 928  | 931  | 928  | 930  | 928  | 931  |
| 15.0              | 911  | 907  | 912  | 907  | 913  | 908  | 913  | 908  | 913  |
| 20.0              | 884  | 879  | 885  | 880  | 887  | 881  | 887  | 881  | 886  |
| 25.0              | 850  | 843  | 852  | 845  | 853  | 845  | 853  | 846  | 853  |
| 30.0              | 810  | 800  | 811  | 802  | 813  | 803  | 814  | 804  | 813  |
| 35.0              | 762  | 752  | 763  | 754  | 765  | 756  | 766  | 756  | 764  |
| 40.0              | 706  | 696  | 708  | 699  | 711  | 700  | 711  | 700  | 711  |
| 45.0              | 647  | 634  | 650  | 637  | 652  | 639  | 653  | 639  | 652  |
| 50.0              | 581  | 569  | 585  | 572  | 587  | 574  | 588  | 574  | 586  |
| 55.0              | 512  | 498  | 514  | 501  | 517  | 503  | 518  | 503  | 517  |
| 60.0              | 440  | 424  | 443  | 427  | 446  | 429  | 447  | 429  | 446  |
| 65.0              | 364  | 349  | 367  | 352  | 370  | 355  | 372  | 354  | 370  |
| 70.0              | 288  | 280  | 291  | 280  | 294  | 280  | 295  | 280  | 293  |
| 75.0              | 202  | 190  | 194  | 193  | 187  | 196  | 188  | 195  | 195  |
| 80.0              | 146  | 120  | 149  | 123  | 152  | 125  | 153  | 125  | 152  |
| 85.0              | 76.5 | 54.0 | 78.8 | 56.3 | 81.4 | 58.3 | 82.7 | 58.4 | 81.6 |
| 90.0              | 15.2 | 2.80 | 16.7 | 3.60 | 19.1 | 4.40 | 20.2 | 4.70 | 19.7 |
| 95.0              | 9.50 | 3.10 | 9.50 | 3.10 | 9.50 | 3.10 | 9.60 | 3.10 | 9.60 |
| 100.0             | 8.80 | 3.50 | 8.80 | 3.60 | 8.80 | 3.50 | 8.90 | 3.50 | 8.80 |
| 105.0             | 8.40 | 4.00 | 8.40 | 4.00 | 8.40 | 4.00 | 8.40 | 4.00 | 8.40 |
| 110.0             | 8.29 | 4.50 | 8.29 | 4.50 | 8.29 | 4.50 | 8.29 | 4.40 | 8.20 |
| 115.0             | 8.20 | 4.90 | 8.20 | 5.00 | 8.20 | 4.90 | 8.20 | 4.90 | 8.20 |
| 120.0             | 8.20 | 5.40 | 8.29 | 5.50 | 8.20 | 5.40 | 8.20 | 5.30 | 8.20 |
| 125.0             | 8.29 | 5.80 | 8.29 | 5.90 | 8.29 | 5.80 | 8.29 | 5.80 | 8.29 |
| 130.0             | 8.40 | 6.20 | 8.50 | 6.30 | 8.50 | 6.20 | 8.40 | 6.20 | 8.40 |
| 135.0             | 8.60 | 6.60 | 8.60 | 6.60 | 8.60 | 6.60 | 8.50 | 6.50 | 8.50 |
| 140.0             | 8.70 | 6.90 | 8.70 | 7.00 | 8.80 | 6.90 | 8.70 | 6.90 | 8.70 |
| 145.0             | 8.90 | 7.20 | 8.80 | 7.30 | 8.90 | 7.20 | 8.80 | 7.20 | 8.80 |
| 150.0             | 9.00 | 7.50 | 9.00 | 7.60 | 9.09 | 7.50 | 8.90 | 7.50 | 9.00 |
| 155.0             | 9.09 | 7.80 | 9.20 | 7.90 | 9.20 | 7.80 | 9.00 | 7.80 | 9.09 |
| 160.0             | 9.20 | 8.10 | 9.20 | 8.10 | 9.30 | 8.10 | 9.20 | 8.10 | 9.20 |
| 165.0             | 9.30 | 8.29 | 9.30 | 8.40 | 9.40 | 8.29 | 9.20 | 8.29 | 9.30 |
| 170.0             | 9.40 | 8.50 | 9.30 | 8.60 | 9.40 | 8.40 | 9.40 | 8.50 | 9.30 |
| 175.0             | 9.50 | 8.60 | 9.30 | 8.70 | 9.40 | 8.60 | 9.40 | 8.60 | 9.40 |
| 180.0             | 9.40 | 8.80 | 9.30 | 8.90 | 9.30 | 8.80 | 9.30 | 8.80 | 9.30 |

Test System:  
 Temperature:25.3'C  
 Operators:  
 Test Date:06-18-2021

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 Humidity:65.0%  
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 Remarks: 83Ra. Flickering 1.7%