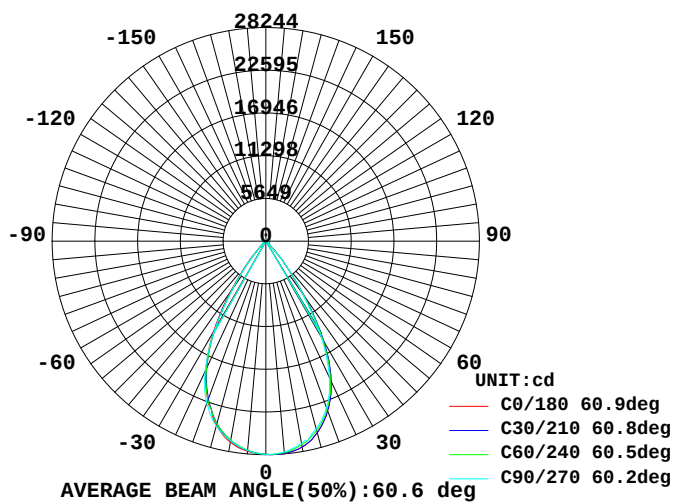


## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |

|                    |         |                   |          |                     |         |
|--------------------|---------|-------------------|----------|---------------------|---------|
| MODEL:             |         | Imax(cd):         | 28259    | Effective Flux(lm): | 26245.0 |
| NOMINAL POWER(W):  | 150     | MAXIMUM(C, γ):    | 195, 3.0 | EEI                 | 0.078   |
| RATED VOLTAGE(V):  | 220     | EFFICIENCY(%):    | 100.0    | Voltage(V)          | 220.0   |
| NOMINAL FLUX(lm):  | 26244.9 | η street_up(%):   | 0.6      | Current(A)          | 0.691   |
| TEST FLUX(lm):     | 26244.9 | η street_down(%): | 48.5     | Power(W)            | 150.1   |
| LAMPS QUANTITY:    | 1       | η house_up(%)     | 0.6      | Power Factor        | 0.987   |
| TOTAL RADIANT(mw): | 26244.9 | η house_down(%)   | 50.4     | EEFICIENCY(lm/W)    | 174.8   |



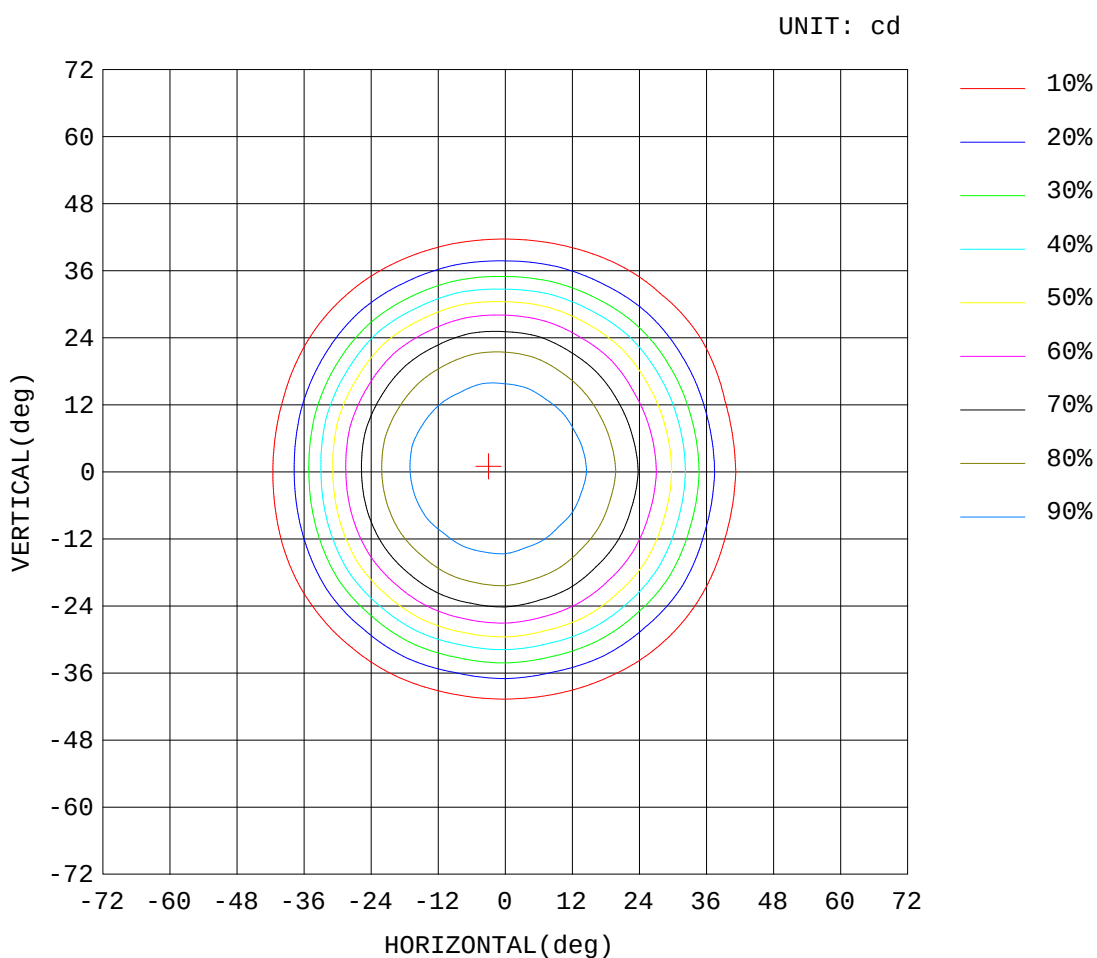
Temperature: 25.3°C  
 Operators:  
 Test Date: 16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks: 0,4% Flickering. Temp 48.9 C

## ISOCANDELA DIAGRAM

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |



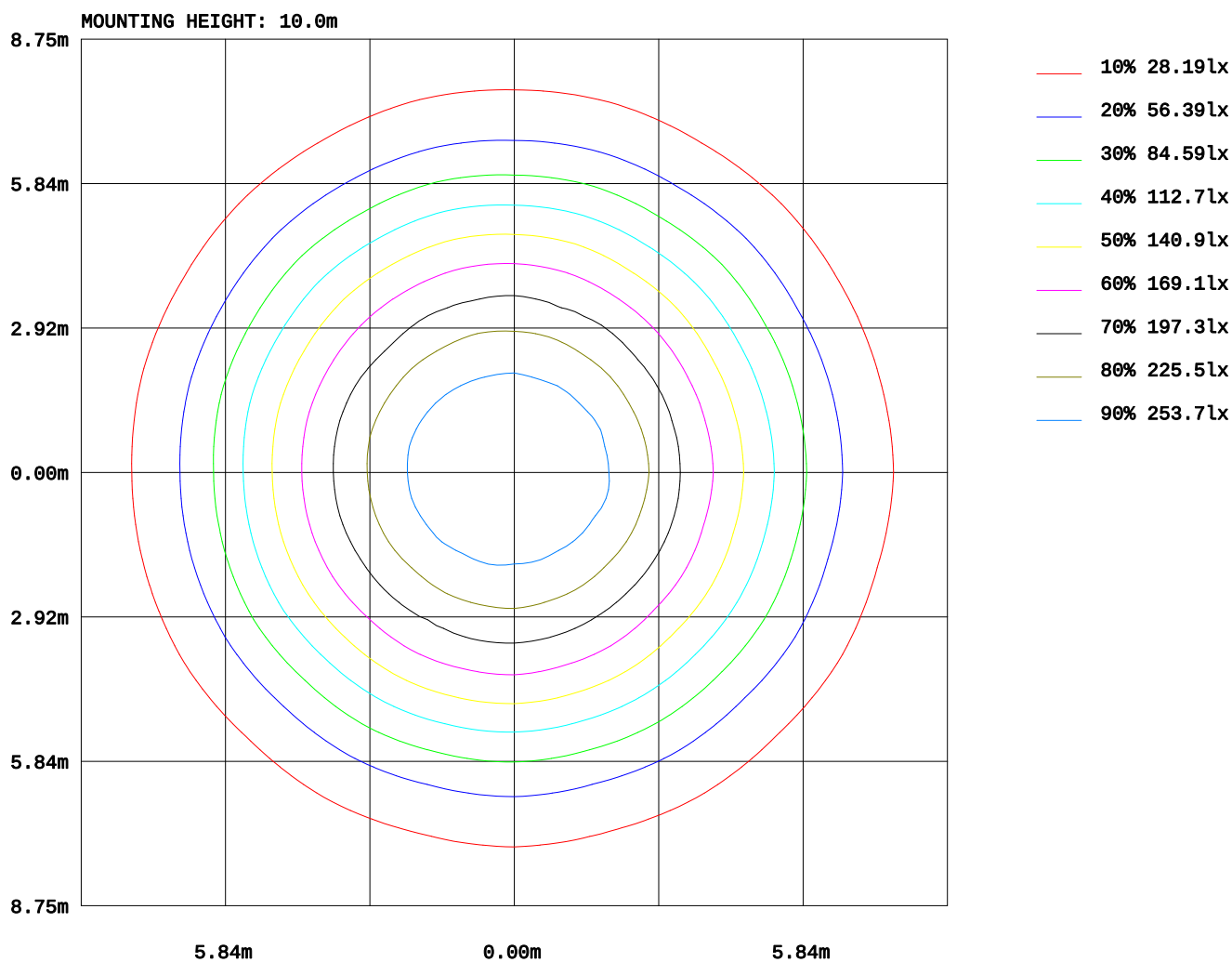
Temperature:25.3'C  
Operators:  
Test Date:16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: 0,4% Flickering. Temp 48.9 C

## ISOLUX DIAGRAM

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |



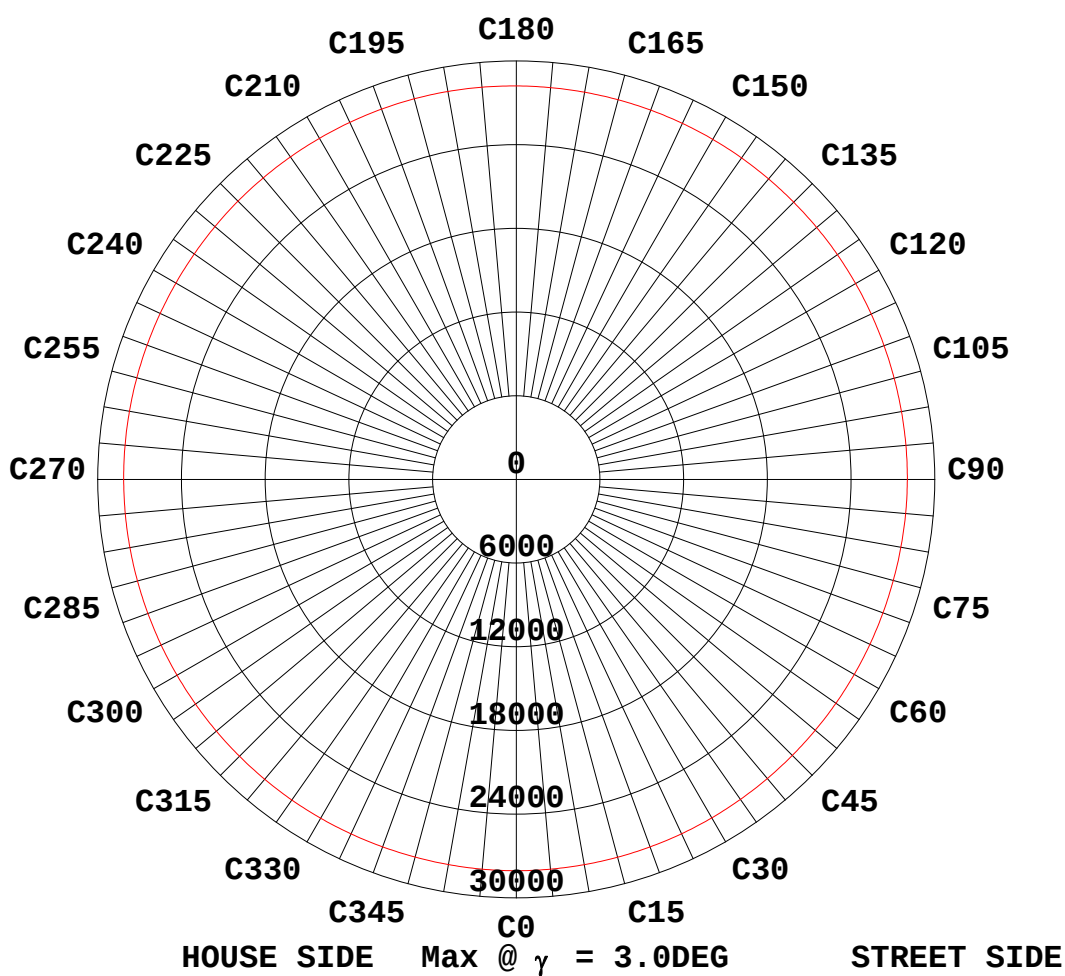
Temperature: 25.3°C  
Operators:  
Test Date: 16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks: 0,4% Flickering. Temp 48.9 C

## ISOCANDELA DIAGRAM

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |



Temperature: 25.3°C  
Operators:  
Test Date: 16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks: 0,4% Flickering. Temp 48.9 C

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |

UNIT:  $\mu\text{A10cd}$ 

| C(deg)<br>$\gamma$ (deg) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0                      | 2818 | 2820 | 2820 | 2819 | 2817 | 2819 | 2820 | 2820 | 2819 | 2818 | 2817 | 2816 | 2818 | 2820 | 2820 |
| 5.0                      | 2789 | 2785 | 2781 | 2774 | 2773 | 2773 | 2779 | 2782 | 2791 | 2797 | 2807 | 2812 | 2817 | 2821 | 2818 |
| 10.0                     | 2702 | 2696 | 2683 | 2692 | 2671 | 2691 | 2682 | 2693 | 2706 | 2722 | 2742 | 2758 | 2766 | 2774 | 2763 |
| 15.0                     | 2521 | 2503 | 2497 | 2487 | 2499 | 2508 | 2530 | 2536 | 2553 | 2563 | 2592 | 2613 | 2626 | 2638 | 2623 |
| 20.0                     | 2246 | 2219 | 2223 | 2212 | 2240 | 2250 | 2285 | 2289 | 2315 | 2318 | 2334 | 2373 | 2388 | 2404 | 2387 |
| 25.0                     | 1876 | 1853 | 1851 | 1842 | 1859 | 1869 | 1900 | 1915 | 1948 | 1967 | 2007 | 2032 | 2037 | 2065 | 2043 |
| 30.0                     | 1387 | 1359 | 1356 | 1331 | 1334 | 1326 | 1353 | 1367 | 1414 | 1441 | 1491 | 1514 | 1525 | 1553 | 1548 |
| 35.0                     | 814  | 771  | 778  | 736  | 751  | 730  | 765  | 752  | 796  | 796  | 855  | 858  | 863  | 890  | 882  |
| 40.0                     | 367  | 345  | 332  | 344  | 317  | 344  | 331  | 347  | 339  | 341  | 366  | 373  | 375  | 392  | 374  |
| 45.0                     | 104  | 90.2 | 90.9 | 82.2 | 86.7 | 81.8 | 89.4 | 83.5 | 91.6 | 89.1 | 100  | 99.3 | 102  | 105  | 95.6 |
| 50.0                     | 56.6 | 52.5 | 55.0 | 52.4 | 54.7 | 51.7 | 54.6 | 51.4 | 54.8 | 53.1 | 56.9 | 55.2 | 56.7 | 58.8 | 56.2 |
| 55.0                     | 46.7 | 44.1 | 46.0 | 44.4 | 46.0 | 44.0 | 45.6 | 43.6 | 45.9 | 44.8 | 46.9 | 45.5 | 46.9 | 47.7 | 45.8 |
| 60.0                     | 45.5 | 41.0 | 42.0 | 41.3 | 42.3 | 40.8 | 44.0 | 40.6 | 42.3 | 41.7 | 42.9 | 42.6 | 45.7 | 44.2 | 41.6 |
| 65.0                     | 50.6 | 39.1 | 40.0 | 39.3 | 39.9 | 38.4 | 46.0 | 38.5 | 40.3 | 39.9 | 41.0 | 40.3 | 52.0 | 41.7 | 39.4 |
| 70.0                     | 40.3 | 35.4 | 36.3 | 34.9 | 35.9 | 34.1 | 38.7 | 34.1 | 36.3 | 35.4 | 37.0 | 36.0 | 40.2 | 37.8 | 35.7 |
| 75.0                     | 36.1 | 24.9 | 30.1 | 29.3 | 29.1 | 28.5 | 30.7 | 28.5 | 29.5 | 29.0 | 30.6 | 24.6 | 37.7 | 28.2 | 29.2 |
| 80.0                     | 18.4 | 13.4 | 18.9 | 13.8 | 19.8 | 14.6 | 17.5 | 15.6 | 19.4 | 14.6 | 18.4 | 13.5 | 16.2 | 17.2 | 19.0 |
| 85.0                     | 9.45 | 5.91 | 9.27 | 6.42 | 9.11 | 5.99 | 9.33 | 6.20 | 9.38 | 6.86 | 9.71 | 6.35 | 7.04 | 9.27 | 7.42 |
| 90.0                     | 1.90 | 0.87 | 2.40 | 1.23 | 2.86 | 1.53 | 2.52 | 1.58 | 2.99 | 1.33 | 2.56 | 0.88 | 0.65 | 2.50 | 1.25 |
| 95.0                     | 1.29 | 0.68 | 1.27 | 0.67 | 1.27 | 0.66 | 1.30 | 0.65 | 1.27 | 0.66 | 1.27 | 0.67 | 0.67 | 1.24 | 0.65 |
| 100.0                    | 1.23 | 0.79 | 1.20 | 0.75 | 1.18 | 0.73 | 1.18 | 0.72 | 1.18 | 0.74 | 1.20 | 0.76 | 0.77 | 1.18 | 0.73 |
| 105.0                    | 1.29 | 0.98 | 1.23 | 0.90 | 1.17 | 0.85 | 1.16 | 0.84 | 1.16 | 0.88 | 1.22 | 0.94 | 0.96 | 1.22 | 0.90 |
| 110.0                    | 1.52 | 1.36 | 1.43 | 1.21 | 1.29 | 1.10 | 1.25 | 1.08 | 1.28 | 1.16 | 1.38 | 1.26 | 1.32 | 1.42 | 1.21 |
| 115.0                    | 2.00 | 1.97 | 1.88 | 1.76 | 1.66 | 1.57 | 1.57 | 1.54 | 1.62 | 1.67 | 1.77 | 1.81 | 1.91 | 1.86 | 1.77 |
| 120.0                    | 2.78 | 2.90 | 2.65 | 2.65 | 2.37 | 2.40 | 2.22 | 2.34 | 2.28 | 2.48 | 2.46 | 2.63 | 2.79 | 2.60 | 2.64 |
| 125.0                    | 3.82 | 4.09 | 3.72 | 3.88 | 3.41 | 3.58 | 3.21 | 3.49 | 3.25 | 3.62 | 3.42 | 3.73 | 3.95 | 3.60 | 3.81 |
| 130.0                    | 5.14 | 5.46 | 5.06 | 5.34 | 4.78 | 5.03 | 4.55 | 4.89 | 4.55 | 4.98 | 4.65 | 5.02 | 5.31 | 4.87 | 5.18 |
| 135.0                    | 6.63 | 6.99 | 6.51 | 6.91 | 6.35 | 6.70 | 6.14 | 6.53 | 6.05 | 6.47 | 6.03 | 6.49 | 6.87 | 6.33 | 6.69 |
| 140.0                    | 8.20 | 8.59 | 7.94 | 8.44 | 7.92 | 8.42 | 7.80 | 8.21 | 7.57 | 7.98 | 7.46 | 8.09 | 8.52 | 7.88 | 8.26 |
| 145.0                    | 9.80 | 10.1 | 9.44 | 9.89 | 9.46 | 10.0 | 9.45 | 9.77 | 9.09 | 9.47 | 9.00 | 9.68 | 10.1 | 9.53 | 9.87 |
| 150.0                    | 11.3 | 11.6 | 10.9 | 11.3 | 10.9 | 11.4 | 10.9 | 11.2 | 10.5 | 11.0 | 10.6 | 11.3 | 11.7 | 11.1 | 11.5 |
| 155.0                    | 12.8 | 13.2 | 12.4 | 12.8 | 12.3 | 12.9 | 12.2 | 12.6 | 12.0 | 12.6 | 12.2 | 12.9 | 13.3 | 12.8 | 13.2 |
| 160.0                    | 14.5 | 14.7 | 14.0 | 14.4 | 13.9 | 14.5 | 13.6 | 14.0 | 13.5 | 14.2 | 13.9 | 14.6 | 14.9 | 14.5 | 14.8 |
| 165.0                    | 16.2 | 16.3 | 15.6 | 16.1 | 15.7 | 16.3 | 15.3 | 15.7 | 15.2 | 15.9 | 15.6 | 16.3 | 16.6 | 16.2 | 16.4 |
| 170.0                    | 17.8 | 17.8 | 17.2 | 17.6 | 17.3 | 18.0 | 17.2 | 17.3 | 16.8 | 17.4 | 17.1 | 17.8 | 18.2 | 17.7 | 17.8 |
| 175.0                    | 19.1 | 18.8 | 18.4 | 18.7 | 18.5 | 19.1 | 18.8 | 18.5 | 18.1 | 18.4 | 18.2 | 18.7 | 19.3 | 18.7 | 18.8 |
| 180.0                    | 19.6 | 19.2 | 19.0 | 19.0 | 19.0 | 19.3 | 19.7 | 19.1 | 18.8 | 18.9 | 18.8 | 19.1 | 19.6 | 19.1 | 19.1 |

Temperature:25.3'C  
Operators:  
Test Date:16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: 0,4% Flickering. Temp 48.9 C

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                         |              |                       |             |
|-----------------------------------------|--------------|-----------------------|-------------|
| MANUFACTURER:                           |              |                       |             |
| Address:                                |              |                       |             |
| NAME: Optimus 5Mx1L 150W 5000K 75Ra G60 |              | TYPE:                 | WEIGHT:     |
| SPECIFICATION:                          | CCT(K): 5155 | DIMENSION: 971x128x40 | SERIAL No.: |

UNIT:  $\mu\text{A10cd}$ 

| $\gamma$ (deg) \ C(deg) | 225  | 240  | 255  | 270  | 285  | 300  | 315  | 330  | 345  |
|-------------------------|------|------|------|------|------|------|------|------|------|
| 0.0                     | 2819 | 2817 | 2819 | 2820 | 2820 | 2819 | 2818 | 2817 | 2816 |
| 5.0                     | 2814 | 2806 | 2802 | 2797 | 2794 | 2790 | 2790 | 2787 | 2786 |
| 10.0                    | 2752 | 2734 | 2727 | 2714 | 2709 | 2702 | 2703 | 2699 | 2699 |
| 15.0                    | 2612 | 2593 | 2589 | 2571 | 2560 | 2536 | 2528 | 2515 | 2517 |
| 20.0                    | 2333 | 2367 | 2332 | 2344 | 2321 | 2281 | 2257 | 2234 | 2232 |
| 25.0                    | 2051 | 2021 | 2024 | 1984 | 1968 | 1913 | 1899 | 1860 | 1866 |
| 30.0                    | 1550 | 1522 | 1507 | 1469 | 1451 | 1416 | 1406 | 1378 | 1373 |
| 35.0                    | 889  | 868  | 867  | 841  | 834  | 807  | 807  | 787  | 788  |
| 40.0                    | 394  | 380  | 403  | 387  | 391  | 361  | 368  | 353  | 355  |
| 45.0                    | 102  | 95.9 | 104  | 98.5 | 103  | 93.1 | 99.0 | 90.8 | 98.3 |
| 50.0                    | 58.5 | 55.1 | 56.7 | 53.8 | 55.3 | 52.5 | 55.1 | 52.3 | 54.8 |
| 55.0                    | 47.6 | 45.1 | 46.2 | 43.9 | 45.3 | 43.5 | 45.5 | 43.5 | 45.4 |
| 60.0                    | 43.3 | 41.0 | 42.0 | 41.4 | 41.5 | 40.0 | 42.0 | 40.1 | 42.4 |
| 65.0                    | 41.3 | 38.8 | 39.9 | 42.3 | 39.6 | 37.9 | 40.3 | 38.0 | 40.4 |
| 70.0                    | 37.5 | 35.1 | 36.4 | 37.4 | 36.0 | 34.2 | 36.5 | 34.4 | 37.1 |
| 75.0                    | 31.2 | 28.7 | 30.5 | 29.7 | 30.2 | 28.3 | 30.7 | 28.5 | 28.3 |
| 80.0                    | 18.8 | 18.2 | 18.7 | 16.0 | 19.4 | 18.4 | 18.2 | 18.6 | 17.1 |
| 85.0                    | 10.2 | 7.87 | 10.9 | 8.19 | 10.3 | 7.83 | 10.0 | 7.21 | 8.79 |
| 90.0                    | 3.31 | 2.01 | 3.77 | 1.87 | 3.67 | 1.92 | 3.15 | 1.21 | 2.35 |
| 95.0                    | 1.28 | 0.65 | 1.41 | 0.70 | 1.39 | 0.65 | 1.28 | 0.66 | 1.24 |
| 100.0                   | 1.17 | 0.71 | 1.18 | 0.71 | 1.17 | 0.72 | 1.18 | 0.75 | 1.19 |
| 105.0                   | 1.17 | 0.83 | 1.14 | 0.81 | 1.14 | 0.84 | 1.17 | 0.93 | 1.25 |
| 110.0                   | 1.31 | 1.07 | 1.22 | 1.04 | 1.23 | 1.10 | 1.33 | 1.28 | 1.48 |
| 115.0                   | 1.68 | 1.56 | 1.53 | 1.48 | 1.54 | 1.60 | 1.74 | 1.89 | 1.99 |
| 120.0                   | 2.38 | 2.37 | 2.17 | 2.28 | 2.20 | 2.46 | 2.49 | 2.84 | 2.82 |
| 125.0                   | 3.39 | 3.54 | 3.16 | 3.45 | 3.22 | 3.68 | 3.58 | 4.11 | 3.92 |
| 130.0                   | 4.72 | 4.97 | 4.50 | 4.92 | 4.59 | 5.17 | 5.00 | 5.57 | 5.29 |
| 135.0                   | 6.22 | 6.61 | 6.10 | 6.63 | 6.22 | 6.87 | 6.58 | 7.17 | 6.84 |
| 140.0                   | 7.73 | 8.29 | 7.79 | 8.46 | 7.94 | 8.58 | 8.15 | 8.77 | 8.43 |
| 145.0                   | 9.29 | 9.89 | 9.51 | 10.1 | 9.66 | 10.2 | 9.73 | 10.3 | 10.0 |
| 150.0                   | 10.8 | 11.4 | 11.1 | 11.7 | 11.2 | 11.7 | 11.2 | 11.9 | 11.6 |
| 155.0                   | 12.4 | 13.0 | 12.5 | 13.1 | 12.8 | 13.3 | 12.7 | 13.4 | 13.0 |
| 160.0                   | 14.1 | 14.5 | 14.0 | 14.7 | 14.4 | 14.8 | 14.3 | 14.9 | 14.5 |
| 165.0                   | 15.7 | 16.1 | 15.6 | 16.4 | 16.1 | 16.5 | 15.9 | 16.4 | 16.0 |
| 170.0                   | 17.2 | 17.6 | 17.1 | 18.1 | 17.7 | 17.8 | 17.3 | 17.7 | 17.4 |
| 175.0                   | 18.4 | 18.7 | 18.4 | 19.4 | 18.7 | 18.7 | 18.4 | 18.6 | 18.5 |
| 180.0                   | 19.0 | 19.1 | 19.2 | 19.8 | 19.1 | 18.9 | 18.8 | 18.9 | 19.0 |

Temperature:25.3'C  
 Operators:  
 Test Date:16-11-2021

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: 0,4% Flickering. Temp 48.9 C